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November 20, 2018

Mr. James R. Carroll  
Program Administrator  
Land Restoration Program  
Land Management Administration  
Maryland Department of the Environment  
1800 Washington Road, Suite 625  
Baltimore, Maryland 21230

Re: Transmittal of the Technical Memorandum: July 2018 Surface-Water Sampling Results  
Martin State Airport, 701 Wilson Point Road, Middle River, Maryland

Dear Mr. Carroll:

For your review, please find enclosed two hard copies with CDs of the above-referenced document. This document presents surface water sampling results for July 2018 monitoring of Frog Mortar Creek off the Martin State Airport in Middle River, Maryland.

If you have any questions or require any additional information please contact me by phone at 301-548-2223, or via e-mail at [charles.trione@lmco.com](mailto:charles.trione@lmco.com).

Sincerely,

Charles Trione  
Project Lead, Environmental Remediation  
Lockheed Martin Corporation

cc: (via email without enclosure)  
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**TECHNICAL MEMORANDUM: JULY 2018  
SURFACE WATER SAMPLING RESULTS  
FOR FROG MORTAR CREEK  
MARTIN STATE AIRPORT  
701 WILSON POINT ROAD  
MIDDLE RIVER, MARYLAND**

Prepared for:  
Lockheed Martin Corporation

Prepared by:  
Tetra Tech, Inc.

November 2018

Approved by:  
Lockheed Martin, Inc.

Revision:                      0  
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Regional Manager



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## ACRONYMS AND ABBREVIATIONS

|                 |                                                 |
|-----------------|-------------------------------------------------|
| AWQC            | ambient water quality criteria                  |
| BTAG            | Biological Technical Advisory Group             |
| BTEX            | benzene, toluene, ethylbenzene, and xylenes     |
| cis-1,2-DCE     | cis-1,2-dichloroethene                          |
| COMAR           | Code of Maryland Regulations                    |
| cVOC            | chlorinated volatile organic compound           |
| DRA             | Dump Road Area                                  |
| EL              | Edwards Lane                                    |
| ESWS            | ecological surface-water screening level        |
| GIS             | geographic information system                   |
| IDW             | investigation derived waste                     |
| Lockheed Martin | Lockheed Martin Corporation                     |
| MAA             | Maryland Aviation Administration                |
| MDE             | Maryland Department of the Environment          |
| MDANG           | Maryland Air National Guard                     |
| mg/L            | milligram(s) per liter                          |
| MSA             | Martin State Airport                            |
| µg/L            | microgram(s) per liter                          |
| NOAA            | National Oceanic and Atmospheric Administration |
| NRWQC           | national recommended water quality criteria     |
| PDF             | portable document format                        |
| PPE             | personal protective equipment                   |
| SVOC            | semivolatile organic compound                   |
| TB              | trip blank                                      |
| TCE             | trichloroethene                                 |
| Tetra Tech      | Tetra Tech, Inc.                                |

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|       |                                               |
|-------|-----------------------------------------------|
| USEPA | United States Environmental Protection Agency |
| VC    | vinyl chloride                                |
| 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 technical memorandum presenting sampling results for surface water samples collected in Frog Mortar Creek adjacent to the Dump Road Area (DRA) at Martin State Airport (MSA) in Middle River, Maryland (see Figure 1-1). Surface water was sampled according to the 2018 Surface Water Sampling Work Plan (Tetra Tech, 2017). This technical memorandum presents the analytical results for surface water samples collected from Frog Mortar Creek on July 9, 2018.

This investigation obtained additional chemical and spatial-distribution data for volatile organic compounds (VOCs) and metals in creek surface water that might emanate from a groundwater plume at the Dump Road Area of Martin State Airport, and for volatile organic compounds possibly originating from upgradient sources. Results herein are compared to screening levels intended to protect human health and the environment. These data will provide information to:

- evaluate the interaction between Frog Mortar Creek and shallow groundwater in the Dump Road Area
- assess possible localized seepage of contaminated groundwater to creek surface water, using sampling locations for nine established western-shoreline transects, four single-sampling locations between transects, and one eastern-shoreline transect
- assess human health risks for recreational users of Frog Mortar Creek
- update modeling for shallow-groundwater flow patterns and groundwater discharge to Frog Mortar Creek

This technical memorandum is organized as follows:

Section 2—Site Background and Previous Investigations: Briefly describes the site and previous Frog Mortar Creek investigations.

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Section 3—Investigation Approach and Methodology: Presents the technical approach and field methodology used for surface water sampling.

Section 4—Results: Presents the investigation results.

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

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

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## **SECTION 2**

# **SITE BACKGROUND AND PREVIOUS INVESTIGATIONS**

Martin State Airport (MSA) is at 701 Wilson Point Road in Middle River, Maryland, bounded by Frog Mortar Creek to the east and Stansbury Creek to the west (Figure 2-1); both are tidal tributaries of the Chesapeake Bay. The Maryland Aviation Administration (MAA) operates MSA on behalf of the Maryland Department of Transportation. The MSA property (approximately 775 acres) consists of an administration building (the Main Terminal building), aircraft hangars, a 7,000-foot-long runway, and several taxiways. MAA manages more than 130,000 square feet of heated hangar space and 190 smaller aircraft hangars. MSA hosts the Maryland State Police aviation unit, Baltimore County Police aviation and marine units, the Baltimore City Police aviation unit, and the Glenn L. Martin Museum. MSA is also home to several commercial tenants that provide fuels and lubricants, helicopter avionics repair, and flight instruction (MAA, 2017).

The area under investigation is Frog Mortar Creek, which is east of and adjacent to the Dump Road Area (DRA) site at MSA (Figures 2-1 and 2-2). The DRA consists mostly of open meadows, mowed grass, and heavily wooded areas (as modified by the construction of the extraction and treatment system noted below); however, it also includes a portion of Taxiway Tango and extends to the airport runway. Taxiway Tango is a concrete and asphalt taxiway currently used by the Maryland Air National Guard (MDANG) for military aircraft operations. The airport runway is used by MDANG and by state-owned and private aircraft.

An extraction and treatment system for DRA groundwater was constructed in 2017 and is operational at the DRA site. This extraction and treatment system consists of 16 groundwater extraction wells, underground piping, and a building that houses components to treat groundwater containing volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals detected at concentrations above Maryland Department of the Environment (MDE) groundwater standards. The wells and underground piping pump groundwater from the surficial

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aquifer to the aboveground treatment building, creating a “hydraulic barrier” that captures groundwater and prevents such contaminants from migrating off-site. The treatment building is 60-feet-wide and 170-feet-long (10,200 square feet) and is near Frog Mortar Creek in the east-central portion of the DRA (Figure 2-2). Treated groundwater is tested routinely and subsequently discharged to Frog Mortar Creek via an MDE-permitted outfall.

Detailed environmental studies have been conducted at the DRA since 1991, when MAA removed drums discovered near Taxiway Tango (Figure 2-2). Subsequent environmental studies at MSA have demonstrated that soil, pond sediment, and groundwater at the DRA have been impacted by VOCs, SVOCs, and metals resulting from historical dumping and backfilling. The following constituents (including several metals) have been detected in DRA groundwater at concentrations exceeding state groundwater standards:

- **chlorinated VOCs** (cVOCs)—including trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC)
- **petroleum-related VOCs**—such as benzene, toluene, ethylbenzene, and xylenes (BTEX)
- **1,4-dioxane**—Maryland does not have a groundwater standard for this compound, but concentrations at the site have exceeded standards proposed or promulgated by other states.
- **metals**—arsenic, barium, beryllium, cadmium, chromium, copper, hexavalent chromium (in two wells, in 2008 only), iron, lead, manganese, mercury, nickel, selenium, thallium, vanadium, and zinc

Frog Mortar Creek is hydraulically downgradient of and receives groundwater discharging from the DRA. The constituents listed above have been detected in surface water samples collected from Frog Mortar Creek. Surface water samples have been collected from Frog Mortar Creek since 1997, and multiple rounds of samples have been collected annually since 2010. Studies at Frog Mortar Creek from 1997–2017, and details of the area’s physical setting, land use, physiography, and surface/subsurface conditions (i.e., soils, hydrology, and geology), are summarized in the *2017 Surface Water Sampling Report for Frog Mortar Creek* (Tetra Tech, 2017), and therefore are not repeated herein.

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## **SECTION 3**

# **INVESTIGATION APPROACH AND METHODOLOGY**

Previous surface-water sampling data for Frog Mortar Creek support the need for ongoing monitoring to assess the extent to which surface water is affected by groundwater discharged from the Dump Road Area (DRA). The data will also be used to assess the effectiveness of the extraction, containment, and treatment system. The chlorinated volatile organic compounds (cVOCs) trichloroethene (TCE) and vinyl chloride (VC), and several metals, have previously been detected in Frog Mortar Creek surface water samples at concentrations exceeding ecological and/or human health screening-criteria; these analytes have also been detected in groundwater at the DRA.

Detected chemical concentrations in surface water obtained from Frog Mortar Creek were evaluated by comparing them to United States Environmental Protection Agency (USEPA) or Maryland screening levels and site-specific levels. These screening criteria include USEPA national recommended water quality criteria (NRWQC), Maryland ambient water quality criteria (AWQC), USEPA Biological Technical Advisory Group (BTAG) surface water screening-benchmarks, and site-specific screening levels for swimming developed by Lockheed Martin Corporation (Lockheed Martin). The July 2018 sampling is the third of six surface-water sampling rounds planned for 2018. The July sampling round assessed water quality during the summer season, when the highest rate of surface water recreational use would be expected in Frog Mortar Creek.

### **3.1 SURFACE WATER SAMPLING**

#### **3.1.1 Surface Water Sampling and Chemical Analyses**

Forty-four surface water samples were collected from Frog Mortar Creek adjacent to the DRA site on July 9, 2018. Sampling locations are shown in Figure 3-1. Four samples were collected along each of nine transects spaced approximately 350 feet apart along the western shoreline of the creek;

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these transects are designated MSA-SW37, MSA-SW38, MSA-SW39, MSA-SW40, MSA-SW41, MSA-SW42, MSA-SW43, MSA-SW44, and MSA-SW45.

Four samples were also collected along a transect extending out from the eastern shoreline of the creek at 3301 Edwards Lane (EL); this transect is designated EL-SW01 (see Figure 3-1). Four additional near-shore samples were collected between transects MSA-SW42 and MSA-SW40 (MSA-SW46A), MSA-SW40 and MSA-SW38 (MSA-SW47A), MSA-SW38 and MSA-SW41 (MSA-SW48A), and MSA-SW41 and MSA-SW43 (MSA-SW49A). These four locations were first sampled in July 2015 to assess constituent concentrations between transects exhibiting the highest VOC concentrations, and are included in the July 2018 sampling round.

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

Table 3-1 outlines the sampling and chemical analysis program. Western-shoreline transect samples (MSA-SW37 through MSA-SW45) were analyzed for the following constituents:

- VOCs, by SW846 Method 8260C (including Freon 113 [1,1,2-trichloro-1,2,2-trifluoroethane], Freon 22 [chlorodifluoromethane], and tentatively identified compounds)
- dissolved metals (filtered in the field), by SW846 Methods 6020/7470A
- hardness, by Standard Method SM 2340B
- hexavalent chromium, by USEPA Method 218.6

Historically, concentrations of metals (other than arsenic and barium) above screening criteria have been found predominantly in areas adjacent to or near the western shoreline. Additionally, metal concentrations (except barium) in eastern shoreline-transect samples (i.e., EL-SW01A–D) collected in 2012 were less than the screening criteria; therefore, the eastern shoreline-transect samples were not analyzed for metals and were analyzed only for VOCs. Hexavalent chromium



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and total chromium have been detected in DRA groundwater; therefore, all western-shoreline samples except SW46A–SW49A were also analyzed for hexavalent chromium. SW46A–SW49A were sampled for VOCs only, as they were added to the sampling program to target areas between transects exhibiting high VOC concentrations. Water quality parameters (including temperature, pH, specific conductance, salinity, turbidity, dissolved oxygen, and oxidation-reduction potential) were measured and recorded at the time of sampling, as was the water depth at all surface-water sampling locations. Sampling information was documented on sample log sheets (see Appendix A).

Water depth measurements were also obtained from the staff gauge at 3301 Edwards Lane before sampling (0.95 meters [3.1 feet] at 0910 hours) and after sampling (0.85 meters [2.8 feet] at 1327 hours). Mean tidal-flux in the Middle River, Maryland, area is approximately 1.6 feet (National Oceanic and Atmospheric Administration [NOAA], 2015). A 2011 study by Lockheed Martin sought to ascertain the effects of tides and sampling depths on contaminant concentrations in Frog Mortar Creek (Tetra Tech, 2012). The tidal phase relative to the time of sample collection appears to influence the VOC concentrations detected, particularly in the samples collected 50 feet from shore. In general, VOC concentrations in “B-series” samples (collected 50 feet from shore) were greater at low tide than at high tide, irrespective of sampling depth. Therefore, during this sampling round, all samples were collected during low tide.

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

Hexavalent chromium samples were collected in pre-cleaned bottles containing a buffer solution (to increase holding time limits). Each bottle was filtered in the field using a peristaltic pump. Hexavalent chromium samples were expedited to the laboratory so they could be analyzed within

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the prescribed 24-hour (since collection) holding time. Field-filtered metals samples (i.e., samples for metals other than hexavalent chromium) were collected using a peristaltic pump and preserved to the appropriate pH level in the field with nitric acid. No duplicates were collected during this sampling round. A trip blank (one per cooler containing VOC samples) was submitted for VOC analysis for quality assurance/quality control purposes.

### **3.1.2 Documentation**

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

### **3.1.3 Sample Nomenclature and Handling**

Surface water samples collected from transects MSA-SW37 through MSA-SW49 are identified with a unique sample-identification tag. Surface water samples are labeled with an “MSA-SW” prefix, followed by the sample transect number, the profile location (“A,” “B,” “C,” or “D”), and the six-digit sampling date. Similarly, surface water samples collected from Edwards Lane transects are identified with an “EL-SW01” prefix, the profile location (“A,” “B,” “C,” or “D”), and the six-digit sampling date. For example, the surface water sample collected on July 9, 2018 from MSA-SW37A would be labeled “MSA-SW37A-070918.” The trip blank was labeled with a “TB” prefix followed by the sample’s six-digit submittal date (e.g., TB-070918).

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

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

#### **3.1.4 Equipment Decontamination**

This project required minimal equipment decontamination. Both dedicated and disposable equipment was used for surface water sampling, to reduce the need for decontamination and eliminate potential cross-contamination of samples. The discrete-interval sampler was cleaned after each use by rinsing with distilled water. Equipment was cleaned over the (creek) water after each sample had been collected. No decontamination fluids were collected during sampling.

#### **3.1.5 Waste Management**

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

### **3.2 DATA MANAGEMENT**

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

#### **3.2.1 Data Tracking and Control**

A cradle-to-grave sample tracking system was used from the beginning to the end of sampling. The field operations leader began and coordinated sample tracking before mobilizing the sampling team to the field. Preprinted sample-container labels generated before fieldwork began were reviewed to ensure that they were accurate and adhered to work plan requirements. The project

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manager coordinated with the analytical laboratory to ensure that the laboratory was aware of the number and type of samples and analyses that would be submitted.

During field sampling, the field operations leader forwarded the chain of custody to a designated project assistant and to the laboratory. The project assistant confirmed that the chain of custody provided the information required by the work plan. This allowed early detection of errors made in the field so that adjustments could be made before sample analyses.

After successful completion of all requested analyses, the laboratory submitted an electronic deliverable for each sample delivery group. When all electronic deliverables had been received from the laboratory, the project assistant checked the laboratory submittal to determine whether the laboratory had performed all analyses requested. All analyses requested for this project were performed.

### **3.2.2 Sample Information**

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

### **3.2.3 Project Data Compilation**

The analytical laboratory generated an Adobe Acrobat® portable document format (PDF) file of the analytical data package, as well as an electronic database deliverable. The electronic database was checked against the PDF file provided by the laboratory and updated as required, based on data-qualifier flags applied during data validation. All data, such as units of measure and chemical nomenclature, were corrected as necessary to be consistent with the project database.

### **3.2.4 Geographic Information System**

Data management systems for this investigation consists of a relational database and geographic information system (GIS) to manage environmental information pertaining to Martin State Airport (MSA) housed in the EESH GIS system. The relational database stores chemical, geological,

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hydrogeological, and other environmental data collected during environmental investigations. The GIS, created from the relational database, contains subsets of the larger data pool. The GIS allows environmental data to be posted onto base maps to graphically represent project information. Compiled sampling, chemical, and positional data from this investigation were incorporated into the EESH GIS system.

### 3.3 DATA REVIEW

Data from the laboratory were entered into a sample database and evaluated against risk-based criteria. Data were validated (to evaluate data completeness, holding times, calibrations, precision, accuracy, laboratory and field-blank contamination, and detection limits) concurrent with the data evaluation. These reviews were based on USEPA national functional guidelines for both organic and inorganic data review (USEPA, 2017a, b) and the specifics of the analytical methods used. Data from this sampling event consist of chemical results for surface water samples. Data-validation reports and chain of custody forms are in Appendix B (on compact disc) as PDF files. A table with all analytical data for July 2018 Frog Mortar Creek surface water samples, including nondetects, is in Appendix C.

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

- J The analyte is considered present in the sample, but is an estimated value that 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.
- NJ The analyte has been tentatively identified. This qualifier indicates presumptive evidence of a compound. Special methods might be required to confirm its presence or absence in future sampling efforts.
- U Not detected; the analyte is considered not detected at the reported value.
- UJ The analyte is not detected. However, the quantitation or detection limit may be inaccurate or imprecise.

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UR The analyte was not detected, but the result is unreliable due to deficiencies in satisfying quality control criteria.

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## SECTION 4 RESULTS

### 4.1 SURFACE WATER DATA AND SCREENING CRITERIA

Validated chemical data from the Frog Mortar Creek surface water samples collected in July 2018 were used to generate a statistical summary table (Table 4-1) and a table summarizing positive detections of chemical analytes (Table 4-2). Samples collected from western transects were analyzed for volatile organic compounds (VOCs) (including fuel-related compounds such as benzene, toluene, ethylbenzene, and xylenes [BTEX] and tentatively identified compounds), dissolved (i.e., filtered) metals, hexavalent chromium, and hardness. Samples from locations SW46A, SW47A, SW48A, and SW49A and the eastern-shoreline-transect samples (e.g., EL-SW01) were analyzed for VOCs only, for the reasons described in Section 3.1.1. Table 4-2 compares surface-water sampling results to several applicable screening criteria, including:

- United States Environmental Protection Agency (USEPA) Region 3 Biological Technical Advisory Group (BTAG) freshwater screening-benchmarks (USEPA, 2006)
- USEPA national recommended water quality criteria (NRWQC) for acute and chronic aquatic-organism exposures, and NRWQC for human health aquatic-organism-consumption (USEPA, 2002, 2009)
- Maryland ambient water quality criteria (AWQC) for acute and chronic aquatic-organism exposures, and AWQC for human health aquatic-organism-consumption (Code of Maryland Regulations [COMAR], 2016)
- site-specific screening levels for swimming developed for trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC)

NRWQC, AWQC, and most BTAG screening levels for metals represent concentrations of dissolved metals in the water column; therefore, only dissolved-metals analyses were performed. BTAG screening levels for arsenic, mercury, molybdenum, selenium, and thallium are based on total metals concentrations. Since only dissolved metals were analyzed during this sampling round,

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results for these metals, are not directly comparable to BTAG criteria. NRWQC and BTAG screening levels for several metals represent concentrations of dissolved metals in the water column; therefore, only dissolved-metals analyses were performed. NRWQC and BTAG screening values for seven metals (cadmium, chromium, copper, lead, nickel, silver, and zinc) should be adjusted using site-specific hardness data. The lowest hardness value for July 2018 was 210 mg/L so the screening levels were adjusted based on this hardness.

TCE, *cis*-1,2-DCE, and VC results are also compared to site-specific screening levels developed by Lockheed Martin Corporation (Lockheed Martin) at the request of the Maryland Department of the Environment (MDE); these values are used to assess risks posed to recreational users of Frog Mortar Creek. These screening levels were developed to protect the health of swimmers near the Dump Road Area (DRA) shoreline, assuming that they have long-term exposure to surface water (i.e., assumed four hours of swimming per day, 70 days per year, for 30 years). These swimming criteria are used because they provide the most conservative (i.e., most protective of human health) screening levels for Frog Mortar Creek.

Gray shading in Table 4-2 indicates a result that exceeds one or more of the constituent's surface-water screening criteria. Figures 4-1 through 4-3 show the concentrations of TCE, *cis*-1,2-DCE, and VC (respectively) detected in July 2018 Frog Mortar Creek samples. A table summarizing analytical data, including nondetect results and detection limits, is attached as Appendix C.

## 4.2 SURFACE WATER SAMPLING RESULTS

Eight VOCs and twelve metals were detected in the July 2018 surface water samples; their analytical results are summarized below and in Tables 4-1 and 4-2. Table 4-3 and Figure 4-4 compare results for TCE, *cis*-1,2-DCE, and VC for this round (July 2018), the previous sampling round (June 2018), and the sampling round from one year ago (July 2017). Since most data discussed herein share the “MSA” prefix, it is dropped when referring to transects or samples (e.g., “SW39” refers to transect MSA-SW39), to improve readability. Any discussion related to samples collected from the Edwards Lane transect (e.g., EL-SW01A) will be similarly identified (i.e., SW01A–SW01D) in the text. In addition, many of the lower VOC detections are estimated



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(i.e., J-qualified); these qualifiers (flags) are also dropped in the following discussion, to improve readability (see Table 4-2 for these details).

#### **4.2.1 Volatile Organic Compounds**

The most frequently detected volatiles in July 2018 are the chlorinated VOCs (cVOCs) cis-1,2-DCE, and VC; these VOCs are also the primary cVOCs detected in the DRA groundwater plume. TCE, a cVOC periodically detected in past events, was detected at six of 44 samples, at SW37B (0.11J µg/L), SW37C (0.11J µg/L), SW38A (0.15J µg/L), SW40B (0.23J µg/L), SW45B (0.13J µg/L), and SW49A (0.13J µg/L). The maximum cis-1,2-DCE and VC concentrations detected in July 2018 (Table 4-3 and Figure 4-4) are slightly higher than those detected during the last round of sampling (June 2018), and are lower than detected during the previous year (July 2017). All calculated average concentrations (i.e., for all samples, and for detects only) for TCE, cis-1,2-DCE and VC in July 2018 are lower than those for last year (July 2017), and slightly higher than the last round of sampling (June 2018). (Table 4-3).

In July 2018 (see Figures 4-1 through 4-4), the highest cVOC concentrations were detected at sampling locations SW37A, SW37C, SW38A, SW39D, SW40B, SW45B, SW48A, and SW49A and in transect locations SW37, SW38, and SW40 along the northern and central portions of the Dump Road Area. The highest cis-1,2-DCE concentrations (Figure 4-2) were detected at SW38A (0.72 µg/L), SW40B (0.33 µg/L), SW49A (0.29 µg/L), whereas the only VC concentrations (Figure 4-3) were detected at SW38A (0.99 µg/L) and SW37B (0.26 µg/L).

All VOC concentrations in the July 2018 surface water samples are less than human health consumption-of-organism and ecological screening-levels. Only one VC concentration (0.99 µg/L at SW38A) is slightly above its swimming screening-level of 0.7 µg/L.

TCE was detected in six of the 44 samples collected in July 2018 (Table 4-1; Figures 4-1 and 4-4). The highest TCE concentration was detected at SW40B (0.23 µg/L). In previous sampling, surface water samples from transects SW38, SW40, and SW41 (all on the western shore of Frog Mortar Creek) have typically had the highest TCE concentrations. The maximum July 2018 TCE concentration was at the near-shore location SW40B. Typically, low concentrations of TCE are

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detected at eastern-shoreline sampling locations in several rounds throughout the year, although no TCE was detected in those samples in June and July 2018 nor in July 2017.

cis-1,2-DCE was detected in 17 of 40 samples at concentrations ranging from 0.16 µg/L to 0.72 µg/L (Table 4-1; Figures 4-2 and 4-4); all concentrations are below the site-specific screening level for swimming (300 µg/L). Historical cis-1,2-DCE detections were generally highest in the northern and central transects, and are associated with locations historically having the highest TCE and VC concentrations; however, in the July 2018 round, low cis-1,2-DCE concentrations were also detected at the southernmost transect (0.16J µg/L at SW39C and 0.24J µg/L at SW39D). The highest cis-1,2-DCE concentration (0.72 µg/L) was at SW38A, with the next highest concentration at SW40B (0.33 µg/L). The maximum cis-1,2-DCE concentration in this round of 0.72 µg/L is higher than the maximum concentration detected during the last sampling round (0.33 µg/L, in June 2018 [Table 4-3]), but one order of magnitude lower than the maximum detected concentration of 3.9 µg/L detected in July 2017 (Table 4-3). Consistent with previous sampling rounds, cis-1,2-DCE concentrations in samples collected from the eastern-shoreline transect (SW01) are lower than those detected in most samples collected from the western-shoreline transects; cis-1,2-DCE was not detected at the eastern-shoreline locations in July 2018.

VC was detected less frequently than cis-1,2-DCE in July 2018 (in only two of 44 samples; see Table 4-1, Figures 4-3 and 4-4). VC was detected at a lower frequency than it was last round (VC was detected in 3 of 40 samples in June 2018), and lower than last year (4 of 40 samples in July 2017). VC was detected in only two sampling locations in the north and central portions of the DRA, at SW37B (0.26 µg/L) and SW38A (0.99 µg/L) (see Tables 4-1 and 4-2). VC was not detected in transects SW39, SW40, SW41, SW42, SW43, SW44, and SW45, or in samples collected from the eastern shoreline transect (SW01).

The VC concentration (0.99 µg/L) at only one location (SW38A) slightly exceeded the screening level for swimming (0.7 µg/L) during this sampling event. As shown on Table 4-3, VC concentrations did not exceed the swimming screening level during the previous sampling round (June 2018), but did exceed the swimming screening level at three locations one year ago (July 2017).

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Five additional VOCs (2-butanone, chloromethane, m+p-xylenes, toluene, and total xylenes) were detected at concentrations less than their respective screening levels in July 2018.

#### **4.2.2 Metals**

Barium is ubiquitous in creek samples, and has been detected in (varying) narrow concentration ranges in all samples collected in the creek since the surface water was first analyzed for barium in 2010. Consistent with historical results, July 2018 dissolved barium concentrations (12-14 µg/L) exceeded the lowest screening level protective of ecological receptors (4 µg/L) in all 36 samples. The highest concentration (14 µg/L) was detected central to the DRA at sampling location SW38C. Barium concentrations in July 2018 are similar to but slightly higher than those detected last round (11-12 µg/L in June 2018), and are lower than last year (16-20 µg/L in July 2017).

Arsenic was detected during this round with total concentrations ranging from 1.1-1.8 µg/L (Table 4-1). The highest arsenic concentration was noted at SW37B and SW40D (1.8 µg/L). These concentrations were below the ecological surface water screening criteria for arsenic (5 µg/L). Arsenic concentrations have been consistently lower than the range of arsenic background concentrations (2.2–3.9 µg/L) detected in samples collected as part of Lockheed Martin's larger-scale 2007–2008 Frog Mortar Creek investigation (Tetra Tech, 2009). Ten other metals (antimony, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, selenium and vanadium) were detected at low concentrations in July 2018. Beryllium exceeded its ecological surface water screening criterion (0.66 µg/L) at one location (0.88 µg/L at SW42B).

#### **4.2.3 Hexavalent Chromium**

Hexavalent chromium has been detected in DRA groundwater, and therefore is included in the surface water monitoring program each sampling round. However, it was not detected in July 2018, nor was it detected in the previous three rounds (June 2018, March 2018, and December 2017). Hexavalent chromium was detected in Frog Mortar Creek samples in March 2016, as well as in three events in 2017 (July, August, and September). Intermittent low concentrations of hexavalent chromium had been detected in Frog Mortar Creek samples before March 2016, within narrow concentration ranges (e.g., 0.028–0.085 µg/L in March 2015, and 0.12–0.16 µg/L in June 2015). The absence of hexavalent chromium detections in July 2018 is consistent with recent

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sampling results, and no concentrations exceed the most protective ecological screening-criterion used for Frog Mortar Creek.

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## SECTION 5 SUMMARY

The Lockheed Martin Corporation July 2018 Frog Mortar Creek surface-water investigation results are summarized below:

- Surface water samples were collected from Frog Mortar Creek on July 9, 2018 and analyzed to assess concentrations of chemical constituents in Frog Mortar Creek, and particularly to evaluate creek surface-water quality near the Dump Road Area (DRA). Each sample was collected at approximately one foot below the water surface.
- Samples were collected along each of nine transects spaced approximately 350 feet apart (for 36 samples) along the western shoreline of Frog Mortar Creek, and from one transect along the eastern shoreline. Along each transect, one sample was collected near the shoreline (“A” sample), one was collected approximately 50 feet from the shoreline (“B” sample), one was collected approximately 100 feet from the shoreline (“C” sample), and one was collected approximately 200 feet from the shoreline (“D” sample). In addition to the samples collected along transects, four single-point shoreline samples were collected, including SW46A (between transects SW42 and SW40), SW47A (between transects SW40 and SW38), SW48A (between transects SW38 and SW41), and SW49A (between transects SW41 and SW43).
- Frog Mortar Creek samples collected along the western shoreline were analyzed for volatile organic compounds (VOCs), filtered metals, hexavalent chromium, and hardness. Samples SW46A–SW49A, and those collected along the eastern shoreline, were only analyzed for volatile organic compounds.
- The analytical data were validated in accordance with the United States Environmental Protection Agency (USEPA) national functional guidelines for both organic and inorganic data review (USEPA, 2017a, b) and the specifics of the analytical methods used. Sampling results were screened against United States Environmental Protection Agency Region 3 Biological Technical Advisory Group (BTAG) ecological screening-benchmarks for freshwater; United States Environmental Protection Agency national recommended water quality criteria (NRWQC) for acute and chronic aquatic-organism exposures and for human health aquatic-organism-consumption; Maryland ambient water quality criteria (AWQC) for acute and chronic aquatic-organism exposures and for human health aquatic-organism-consumption; and site-specific screening levels developed to evaluate risks to recreational swimmers from exposure to the three most frequently detected volatile organic compounds in surface water: trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC).

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- Volatile organic compounds (including trichloroethene, cis-1,2-dichloroethene and vinyl chloride) and 12 metals were detected in the July 2018 surface water samples. Concentrations of volatile organic compounds and metals (except barium and beryllium) are less than human health consumption-of-organism and ecological screening levels.
  - Trichloroethene was detected in 6 of 44 samples, at concentrations ranging from 0.11 µg/L to 0.23 µg/L, but did not exceed its swimming criterion (10 µg/L) in any sample.
  - cis-1,2-Dichloroethene was detected in 17 of 44 samples, at concentrations ranging from 0.16-0.72 µg/L, but did not exceed its swimming criterion (300 µg/L) in any sample. The highest concentrations were detected at sampling locations SW38A (0.72 µg/L), SW40B (0.33 µg/L), and SW49A (0.29 µg/L).
  - Vinyl chloride was detected in 2 of 44 samples, at concentrations of 0.26 µg/L (SW37B) and 0.99 µg/L (SW38A); the latter concentration slightly exceeds the swimming screening criterion (0.7 µg/L).
  - The maximum cis-1,2-dichloroethene and vinyl chloride concentrations detected in July 2018 are slightly higher than those detected during the last round of sampling (June 2018) but are several times lower than those detected in July 2017. The calculated average July 2018 concentrations for cis-1,2-dichloroethene and vinyl chloride, using both detect and nondetect results, are slightly higher than the averages for June 2018, and lower than the averages for July 2017. The calculated average concentrations (using both detect and nondetect results) for trichloroethene in July 2018 are higher than those in the previous round (June 2018) but lower than those detected in July 2017.
  - Trichloroethene, cis-1,2-dichloroethene, and vinyl chloride were not detected in the four samples collected along the eastern-shoreline (SW01A–SW01D). These results are consistent with previous data indicating that volatile organic compound concentrations in this area of Frog Mortar Creek are below the swimming criteria.
  - Dissolved barium exceeded its ecological screening level in all 36 samples collected in July 2018. Historical sampling has demonstrated that barium is ubiquitous in creek samples; the July 2018 concentrations (12-14 µg/L) are slightly higher than those detected in June 2018 (11-12 µg/L) and lower than those detected in July 2017 (16-20 µg/L).
  - Arsenic was detected in all 36 samples collected during this round with concentrations ranging from 1.1-1.8 µg/L (Table 4-1). These results are lower than typical arsenic concentrations; previous sampling has indicated that arsenic concentrations are typically within the range of background (2.2–3.9 µg/L) established during Lockheed Martin's larger-scale 2007–2008 Frog Mortar Creek investigation.
  - Ten other metals (antimony, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, selenium, and vanadium) were detected in July 2018. Of these, only beryllium exceeded its ecological screening criterion, and at only one location. These

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metals are rarely detected in Frog Mortar Creek and, if detected, rarely exceed their respective screening levels.

- Dissolved hexavalent chromium was not detected in any sample collected during this round. Hexavalent chromium was detected in July, August, and September 2017, but was not detected in December 2017, March 2018, and June 2018.

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## SECTION 6 REFERENCES

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## FIGURES

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**Figure 1-1 Martin State Airport, Dump Road Area, and Frog Mortar Creek Location Map**

**Figure 2-1 Martin State Airport and Surrounding Features**

**Figure 2-2 Site Features and Areas of Concern, Dump Road Area**

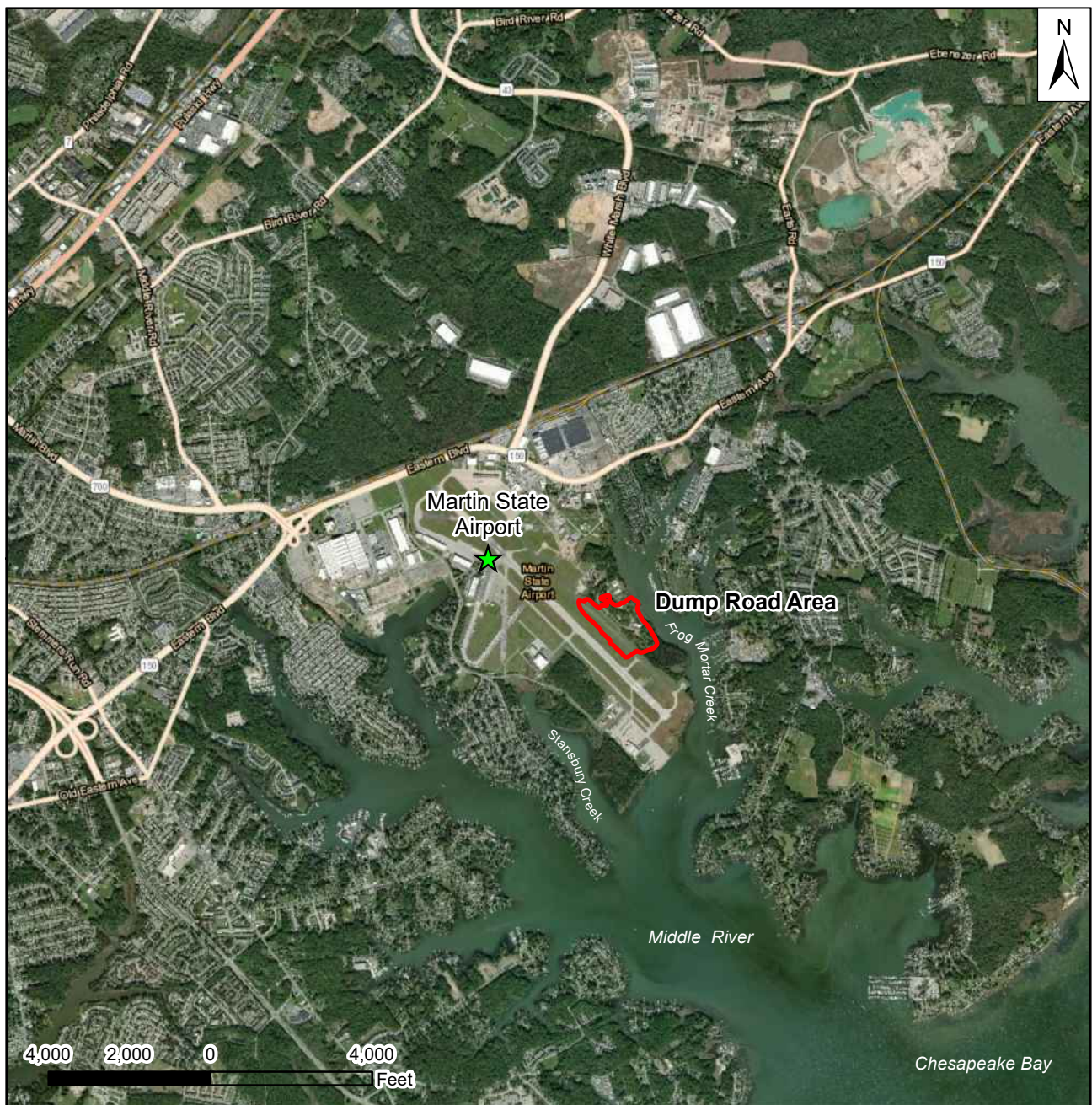
**Figure 3-1 July 2018 Surface Water Sampling Locations**

**Figure 4-1 Concentrations of Trichloroethene in Surface Water Samples, July 2018**

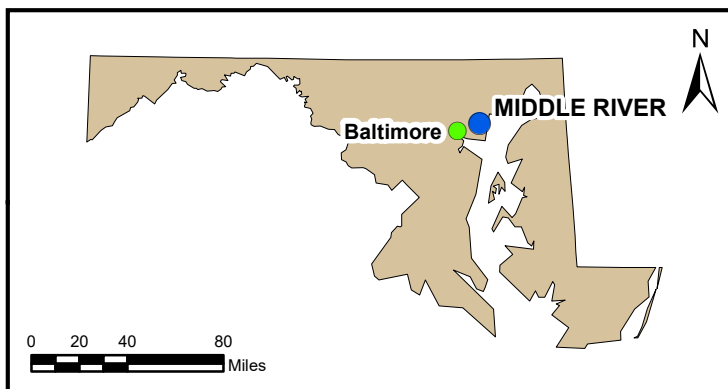
**Figure 4-2 Concentrations of cis-1,2-Dichloroethene in  
Surface Water Samples, July 2018**

**Figure 4-3 Concentrations of Vinyl Chloride in Surface Water Samples, July 2018**

**Figure 4-4 Concentrations of Trichloroethene, cis-1,2-Dichloroethene,  
and Vinyl Chloride along Surface Water Sampling Transects for July 2018, March 2018,  
and July 2017**



Aerial photograph provided by ESRI's ArcGIS Online World Imagery map service (© 2017 ESRI and its data suppliers).



**FIGURE 1-1  
MARTIN STATE AIRPORT  
DUMP ROAD AREA AND FROG  
MORTAR CREEK LOCATION MAP**

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

DATE MODIFIED:

09/10/18

CREATED BY:

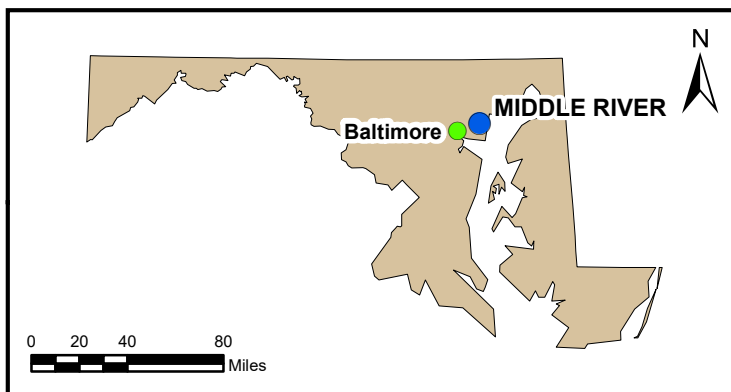
JEE







2017 aerial photograph provided by the State of Maryland.



**FIGURE 2-1**

## **MARTIN STATE AIRPORT AND SURROUNDING FEATURES**

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

DATE MODIFIED:

09/12/18

CREATED BY:

JEE



















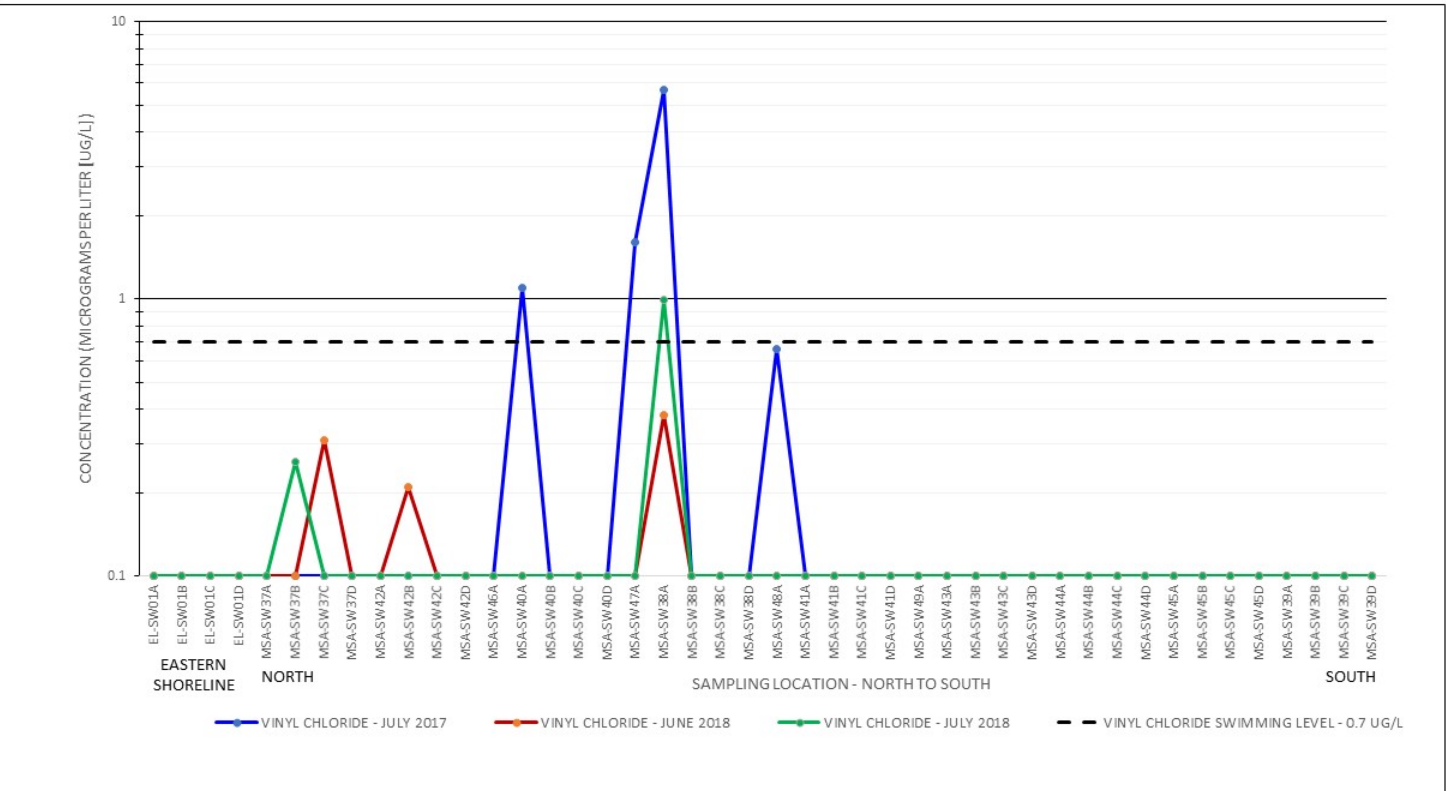
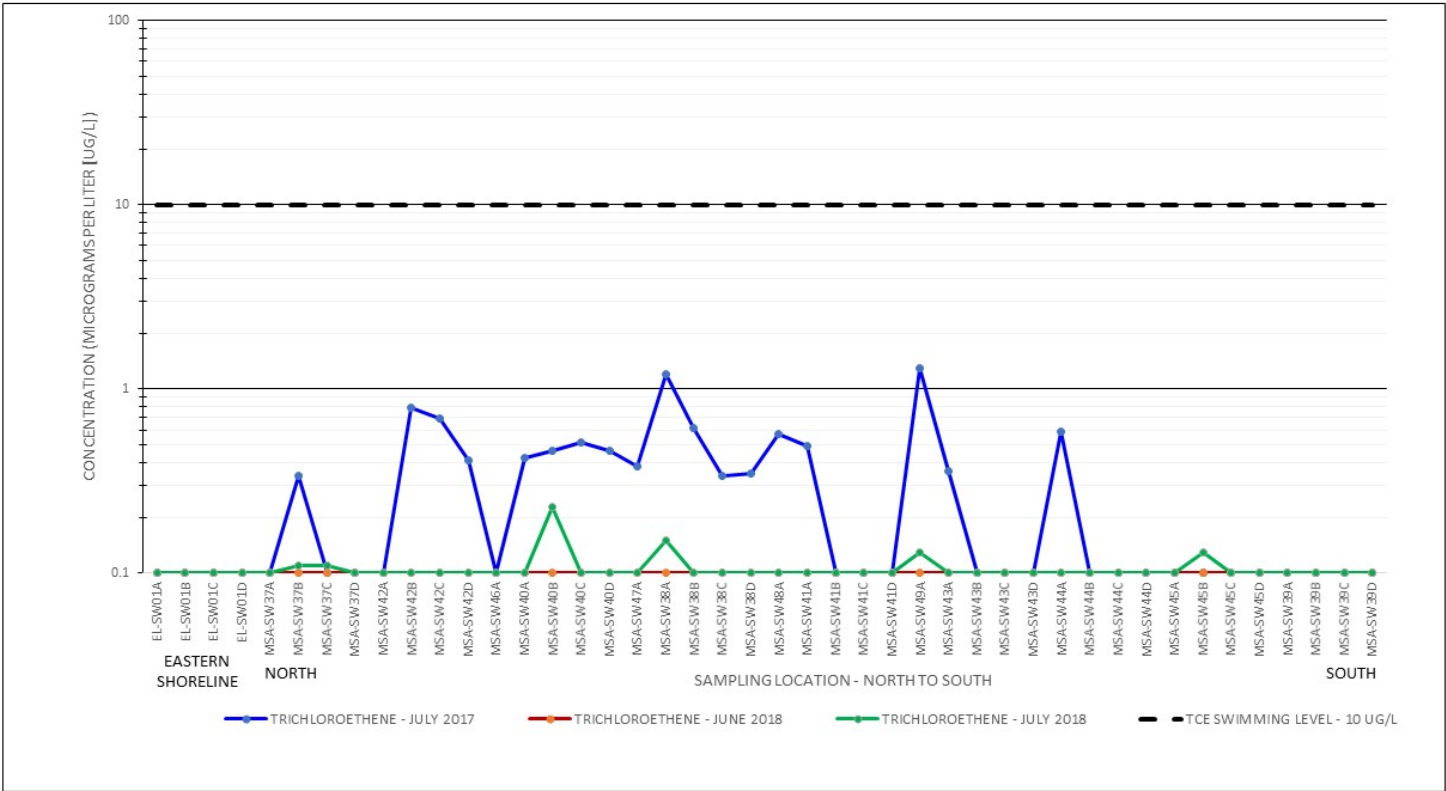
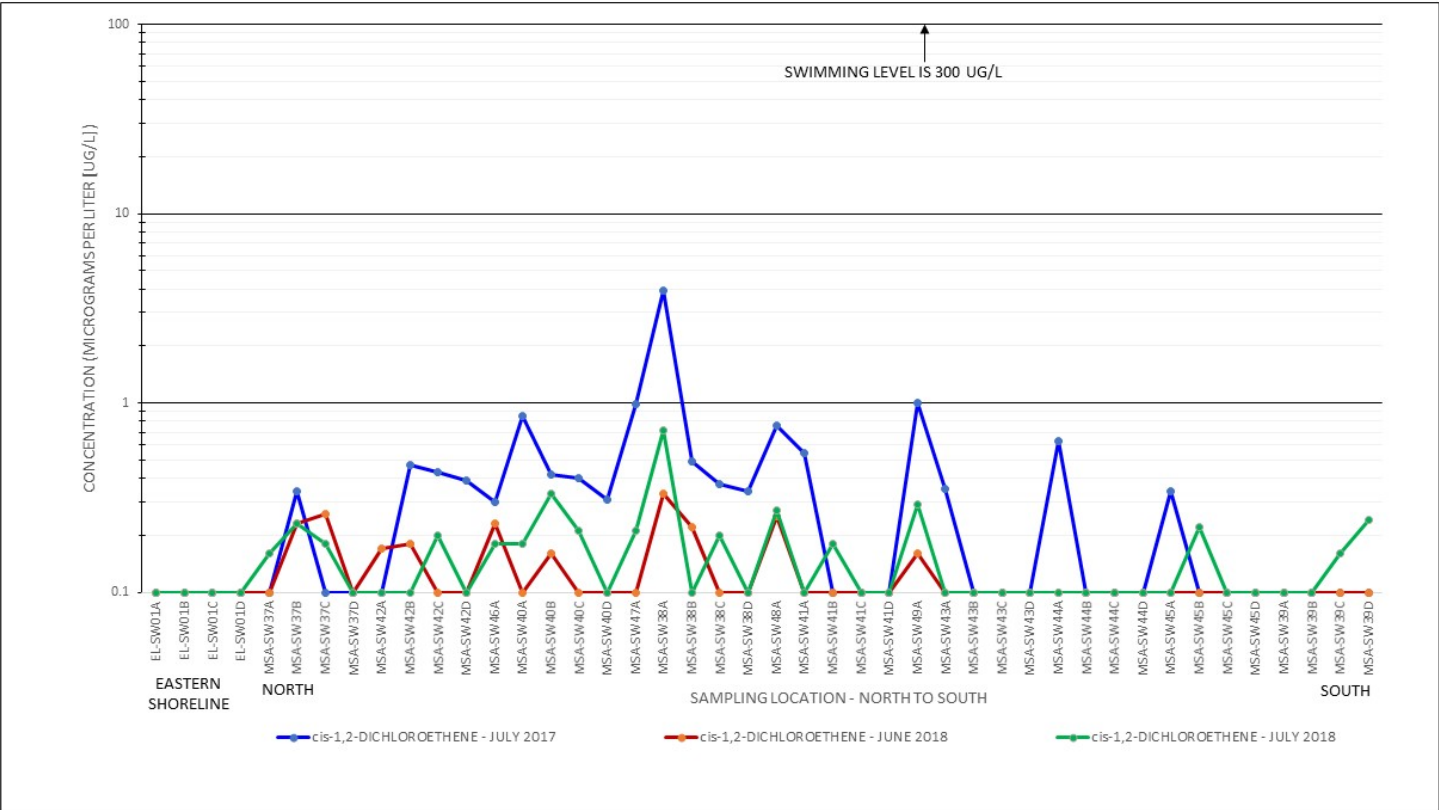






FIGURE 4-4

CONCENTRATIONS OF TRICHLOROETHENE, cis-1,2-DICHLOROETHENE AND VINYL CHLORIDE ALONG SURFACE WATER SAMPLING TRANSECTS FOR JULY 2018, JUNE 2018, AND JULY 2017 FROG MORTAR CREEK



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# TABLES

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**Table 3-1 List of Samples and Chemical Analyses for Surface Water—July 2018**

**Table 4-1 Summary of Analytes Detected in Surface Water Samples—July 2018**

**Table 4-2 Detected Analytes and Screening-Level Exceedances in Surface Water  
Samples—July 2018**

**Table 4-3 Surface Water Chemical Results for Primary Volatile Organic Compounds for  
July 2018, March 2018, and July 2017**

Table 3-1

**List of Samples and Chemical Analyses for Surface Water-July 2018**  
**Frog Mortar Creek**  
**Lockheed Martin, Martin State Airport, Middle River, Maryland**

|                    | Analyses Performed <sup>(1)</sup> (Method) |                    |                     |            |
|--------------------|--------------------------------------------|--------------------|---------------------|------------|
|                    | Volatile Organic Compounds <sup>(2)</sup>  | Dissolved Metals   | Hexavalent Chromium | Hardness   |
| Sample Location ID | (USEPA 8260C)                              | (USEPA 6020/7470A) | (USEPA 218.6)       | (SM 2340B) |
| MSA-SW37A          | X                                          | X                  | X                   | X          |
| MSA-SW37B          | X                                          | X                  | X                   | X          |
| MSA-SW37C          | X                                          | X                  | X                   | X          |
| MSA-SW37D          | X                                          | X                  | X                   | X          |
| MSA-SW38A          | X                                          | X                  | X                   | X          |
| MSA-SW38B          | X                                          | X                  | X                   | X          |
| MSA-SW38C          | X                                          | X                  | X                   | X          |
| MSA-SW38D          | X                                          | X                  | X                   | X          |
| MSA-SW39A          | X                                          | X                  | X                   | X          |
| MSA-SW39B          | X                                          | X                  | X                   | X          |
| MSA-SW39C          | X                                          | X                  | X                   | X          |
| MSA-SW39D          | X                                          | X                  | X                   | X          |
| MSA-SW40A          | X                                          | X                  | X                   | X          |
| MSA-SW40B          | X                                          | X                  | X                   | X          |
| MSA-SW40C          | X                                          | X                  | X                   | X          |
| MSA-SW40D          | X                                          | X                  | X                   | X          |
| MSA-SW41A          | X                                          | X                  | X                   | X          |
| MSA-SW41B          | X                                          | X                  | X                   | X          |
| MSA-SW41C          | X                                          | X                  | X                   | X          |
| MSA-SW41D          | X                                          | X                  | X                   | X          |
| MSA-SW42A          | X                                          | X                  | X                   | X          |
| MSA-SW42B          | X                                          | X                  | X                   | X          |
| MSA-SW42C          | X                                          | X                  | X                   | X          |
| MSA-SW42D          | X                                          | X                  | X                   | X          |
| MSA-SW43A          | X                                          | X                  | X                   | X          |
| MSA-SW43B          | X                                          | X                  | X                   | X          |
| MSA-SW43C          | X                                          | X                  | X                   | X          |
| MSA-SW43D          | X                                          | X                  | X                   | X          |
| MSA-SW44A          | X                                          | X                  | X                   | X          |
| MSA-SW44B          | X                                          | X                  | X                   | X          |
| MSA-SW44C          | X                                          | X                  | X                   | X          |
| MSA-SW44D          | X                                          | X                  | X                   | X          |
| MSA-SW45A          | X                                          | X                  | X                   | X          |
| MSA-SW45B          | X                                          | X                  | X                   | X          |
| MSA-SW45C          | X                                          | X                  | X                   | X          |
| MSA-SW45D          | X                                          | X                  | X                   | X          |
| MSA-SW46A          | X                                          |                    |                     |            |
| MSA-SW47A          | X                                          |                    |                     |            |
| MSA-SW48A          | X                                          |                    |                     |            |
| MSA-SW49A          | X                                          |                    |                     |            |
| EL-SW01A           | X                                          |                    |                     |            |
| EL-SW01B           | X                                          |                    |                     |            |
| EL-SW01C           | X                                          |                    |                     |            |
| EL-SW01D           | X                                          |                    |                     |            |

1 Temperature, pH, specific conductance, salinity, turbidity, dissolved oxygen, and oxidation-reduction potential of each sample was measured and recorded in the field

2 Includes Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane), Freon 22 (chlorodifluoromethane), and tentatively identified compounds

SM - standard method

USEPA - United States Environmental Protection Agency



Table 4-1

Summary of Analytes Detected in Surface Water Samples—July 2018  
Frog Mortar Creek  
Lockheed Martin, Martin State Airport, Middle River, Maryland

| Parameter                   | July 2018 Frog Mortar Creek Surface Water Samples |         |                       |                       |                                          |                                            |                             |                        |                 |                 |             |             |
|-----------------------------|---------------------------------------------------|---------|-----------------------|-----------------------|------------------------------------------|--------------------------------------------|-----------------------------|------------------------|-----------------|-----------------|-------------|-------------|
|                             | Frequency of Detection                            |         | Minimum Conc Detected | Maximum Conc Detected | Sample of Maximum Concentration Detected | Location of Maximum Concentration Detected | Average of Detected Results | Average of All Results | Minimum Conc ND | Maximum Conc ND | StdDev      | Sample Date |
|                             | Number                                            | Percent |                       |                       |                                          |                                            |                             |                        |                 |                 |             |             |
| Volatile Organics (ug/L)    |                                                   |         |                       |                       |                                          |                                            |                             |                        |                 |                 |             |             |
| 2-BUTANONE                  | 3/44                                              | 7       | 1.2 J                 | 1.5 J                 | EL-SW01C-070918                          | EL-SW01C                                   | 1.333333                    | 0.65                   | 1.2             | 1.2             | 0.189859189 | 20180709    |
| CHLOROMETHANE               | 1/44                                              | 2       | 0.26 J                | 0.26 J                | MSA-SW37A-070918                         | MSA-SW37A                                  | 0.26                        | 0.103636               | 0.2             | 0.2             | 0.024120908 | 20180709    |
| CIS-1,2-DICHLOROETHENE      | 17/44                                             | 39      | 0.16 J                | 0.72 J                | MSA-SW38A-070918                         | MSA-SW38A                                  | 0.244705                    | 0.143636               | 0.16            | 0.16            | 0.113835681 | 20180709    |
| M+P-XYLENES                 | 2/44                                              | 5       | 0.14 J                | 0.23 J                | MSA-SW37A-070918                         | MSA-SW37A                                  | 0.185                       | 0.04659                | 0.08            | 0.08            | 0.032056867 | 20180709    |
| TOLUENE                     | 2/44                                              | 5       | 0.25 J                | 0.39 J                | MSA-SW37A-070918                         | MSA-SW37A                                  | 0.32                        | 0.081363               | 0.14            | 0.14            | 0.054797339 | 20180709    |
| TOTAL XYLENES               | 1/44                                              | 2       | 0.23 J                | 0.23 J                | MSA-SW37A-070918                         | MSA-SW37A                                  | 0.23                        | 0.078522               | 0.15            | 0.15            | 0.023367129 | 20180709    |
| TRICHLOROETHENE             | 6/44                                              | 14      | 0.11 J                | 0.23 J                | MSA-SW40B-070918                         | MSA-SW40B                                  | 0.143333                    | 0.062727               | 0.1             | 0.1             | 0.035852647 | 20180709    |
| VINYL CHLORIDE              | 2/44                                              | 5       | 0.26 J                | 0.99                  | MSA-SW38A-070918                         | MSA-SW38A                                  | 0.625                       | 0.123863               | 0.2             | 0.2             | 0.135770256 | 20180709    |
| Volatile TICs (ug/L)        |                                                   |         |                       |                       |                                          |                                            |                             |                        |                 |                 |             |             |
| UNKNOWN                     | 1/1                                               | 100     | 2.9 NJ                | 2.9 NJ                | MSA-SW39B-070918                         | MSA-SW39B                                  | 2.9                         | 2.9                    | NULL            | NULL            | NULL        | 20180709    |
| Metals, Filtered (ug/L)     |                                                   |         |                       |                       |                                          |                                            |                             |                        |                 |                 |             |             |
| ANTIMONY                    | 1/36                                              | 3       | 0.61 J                | 0.61 J                | MSA-SW42B-070918                         | MSA-SW42B                                  | 0.61                        | 0.294027               | 0.57            | 0.57            | 0.054166667 | 20180709    |
| ARSENIC                     | 36/36                                             | 100     | 1.1 J                 | 1.8 J                 | MSA-SW37B,40D-070918                     | MSA-SW37B,40D                              | 1.375                       | 1.375                  | NULL            | NULL            | 0.19327996  | 20180709    |
| BARIUM                      | 36/36                                             | 100     | 12                    | 14                    | MSA-SW39D-070918 (MULTI)                 | MSA-SW39D (MULTI)                          | 13.083333                   | 13.083333              | NULL            | NULL            | 0.691788572 | 20180709    |
| BERYLLIUM                   | 3/36                                              | 8       | 0.44 J                | 0.88 J                | MSA-SW42B-070918                         | MSA-SW42B                                  | 0.623333                    | 0.194027               | 0.31            | 0.31            | 0.142231298 | 20180709    |
| CADMIUM                     | 1/36                                              | 3       | 0.25 J                | 0.25 J                | MSA-SW38C-070918                         | MSA-SW38C                                  | 0.25                        | 0.109027               | 0.21            | 0.21            | 0.024166667 | 20180709    |
| CHROMIUM                    | 1/36                                              | 3       | 1.2 J                 | 1.2 J                 | MSA-SW40D-070918                         | MSA-SW40D                                  | 1.2                         | 0.509722               | 0.98            | 0.98            | 0.118333333 | 20180709    |
| COBALT                      | 7/36                                              | 19      | 0.26 J                | 0.48 J                | MSA-SW38C-070918                         | MSA-SW38C                                  | 0.352857                    | 0.145138               | 0.19            | 0.19            | 0.107287904 | 20180709    |
| COPPER                      | 36/36                                             | 100     | 4.2                   | 8.3                   | MSA-SW40D-070918                         | MSA-SW40D                                  | 5.613888                    | 5.613888               | NULL            | NULL            | 0.637473933 | 20180709    |
| LEAD                        | 2/36                                              | 6       | 0.6 J                 | 0.92 J                | MSA-SW40D-070918                         | MSA-SW40D                                  | 0.76                        | 0.254722               | 0.45            | 0.45            | 0.130038151 | 20180709    |
| MOLYBDENUM                  | 36/36                                             | 100     | 1.5 J                 | 1.8 J                 | MSA-SW37AB,42AB-070918                   | MSA-SW37AB,42AB                            | 1.675                       | 1.675                  | NULL            | NULL            | 0.073192505 | 20180709    |
| SELENIUM                    | 1/36                                              | 3       | 0.98 J                | 0.98 J                | MSA-SW37B-070918                         | MSA-SW37B                                  | 0.98                        | 0.459861               | 0.89            | 0.89            | 0.089166667 | 20180709    |
| VANADIUM                    | 31/36                                             | 86      | 0.82 J                | 1.4 J                 | MSA-SW40D-070918                         | MSA-SW40D                                  | 1.002258                    | 0.92                   | 0.82            | 0.82            | 0.242910918 | 20180709    |
| VANADIUM                    | 31/36                                             | 86      | 0.82 J                | 1.4 J                 | MSA-SW42A-070918                         | MSA-SW42A                                  | 1.002258                    | 0.92                   | 0.82            | 0.82            | 0.242910918 | 20180709    |
| Miscellaneous (mg/L)        |                                                   |         |                       |                       |                                          |                                            |                             |                        |                 |                 |             |             |
| CALCIUM HARDNESS AS CaCO3   | 36/36                                             | 100     | 58                    | 65                    | MSA-SW39C44D-070918                      | MSA-SW39C,44D                              | 61.361111                   | 61.361111              | NULL            | NULL            | 1.94426303  | 20180709    |
| HARDNESS AS CaCO3           | 36/36                                             | 100     | 220                   | 270                   | MSA-SW39C-070918                         | MSA-SW39C                                  | 243.055555                  | 243.055555             | NULL            | NULL            | 11.1661336  | 20180709    |
| MAGNESIUM HARDNESS AS CaCO3 | 36/36                                             | 100     | 160                   | 200                   | MSA-SW39BC-070918                        | MSA-SW39BC                                 | 180                         | 180                    | NULL            | NULL            | 8.94427191  | 20180709    |

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.  
J - estimated value  
µg/L - micrograms per liter  
mg/L - milligrams per liter  
NJ - unidentified compound estimated value

Table 4-2  
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—July 2018  
Frog Mortar Creek  
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| LOCATION                                          | National Recommended Water Quality Criteria <sup>(1)</sup> |         | Ecological Surface Water Screening Level <sup>(2)</sup> | Human Health Consumption of Organism Only <sup>(1)(3)</sup> | Swimming Screening Levels <sup>(4)</sup> | EL-SW01A        | EL-SW01B        | EL-SW01C        | EL-SW01D        | MSA-SW37A        | MSA-SW37B        | MSA-SW37C        | MSA-SW37D        |
|---------------------------------------------------|------------------------------------------------------------|---------|---------------------------------------------------------|-------------------------------------------------------------|------------------------------------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|
| SAMPLE ID                                         |                                                            |         |                                                         |                                                             |                                          | EL-SW01A-070918 | EL-SW01B-070918 | EL-SW01C-070918 | EL-SW01D-070918 | MSA-SW37A-070918 | MSA-SW37B-070918 | MSA-SW37C-070918 | MSA-SW37D-070918 |
| SAMPLE DATE                                       | Acute                                                      | Chronic |                                                         |                                                             |                                          | 20180709        | 20180709        | 20180709        | 20180709        | 20180709         | 20180709         | 20180709         | 20180709         |
| VOLATILES (UG/L)                                  |                                                            |         |                                                         |                                                             |                                          |                 |                 |                 |                 |                  |                  |                  |                  |
| 2-BUTANONE                                        | NA                                                         | NA      | 14000                                                   | NA                                                          | NA                                       | --              | 1.2 J           | 1.5 J           | --              | --               | --               | --               | --               |
| CHLOROMETHANE                                     | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | --              | --              | --              | --              | 0.26 J           | --               | --               | --               |
| CIS-1,2-DICHLOROETHENE                            | NA                                                         | NA      | 590                                                     | NA                                                          | 300                                      | --              | --              | --              | --              | 0.16 J           | 0.23 J           | 0.18 J           | --               |
| M+P-XYLENES                                       | NA                                                         | NA      | 13                                                      | NA                                                          | NA                                       | --              | --              | --              | --              | 0.23 J           | 0.14 J           | --               | --               |
| TOLUENE                                           | NA                                                         | NA      | 2                                                       | 1500                                                        | NA                                       | --              | --              | --              | --              | 0.39 J           | 0.25 J           | --               | --               |
| TOTAL XYLENES                                     | NA                                                         | NA      | 13                                                      | NA                                                          | NA                                       | --              | --              | --              | --              | 0.23 J           | --               | --               | --               |
| TRICHLOROETHENE                                   | NA                                                         | NA      | 21                                                      | 7                                                           | 10                                       | --              | --              | --              | --              | --               | 0.11 J           | 0.11 J           | --               |
| VINYL CHLORIDE                                    | NA                                                         | NA      | 930                                                     | 24                                                          | 0.7                                      | --              | --              | --              | --              | --               | 0.26 J           | --               | --               |
| TENTATIVELY IDENTIFIED COMPOUNDS-VOLATILES (UG/L) |                                                            |         |                                                         |                                                             |                                          |                 |                 |                 |                 |                  |                  |                  |                  |
| UNKNOWN                                           | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | NA              | NA              | NA              | NA              | NA               | NA               | NA               | NA               |
| DISSOLVED METALS (UG/L)                           |                                                            |         |                                                         |                                                             |                                          |                 |                 |                 |                 |                  |                  |                  |                  |
| ANTIMONY                                          | NA                                                         | NA      | 30                                                      | 640                                                         | NA                                       | NA              | NA              | NA              | NA              | --               | --               | --               | --               |
| ARSENIC                                           | 340                                                        | 150     | 5                                                       | 0.14                                                        | NA                                       | NA              | NA              | NA              | NA              | 1.5 J            | 1.8 J            | 1.5 J            | 1.1 J            |
| BARIUM                                            | NA                                                         | NA      | 4                                                       | NA                                                          | NA                                       | NA              | NA              | NA              | NA              | 12               | 13               | 13               | 12               |
| BERYLLIUM                                         | NA                                                         | NA      | 0.66                                                    | NA                                                          | NA                                       | NA              | NA              | NA              | NA              | --               | --               | --               | --               |
| CADMIUM                                           | 2                                                          | 0.25    | 0.25                                                    | NA                                                          | NA                                       | NA              | NA              | NA              | NA              | --               | --               | --               | --               |
| CHROMIUM                                          | 16                                                         | 11      | 85                                                      | NA                                                          | NA                                       | NA              | NA              | NA              | NA              | --               | --               | --               | --               |
| COBALT                                            | NA                                                         | NA      | 23                                                      | NA                                                          | NA                                       | NA              | NA              | NA              | NA              | --               | 0.26 J           | --               | --               |
| COPPER                                            | 28.25                                                      | 17.57   | 17.57                                                   | NA                                                          | NA                                       | NA              | NA              | NA              | NA              | 5.2              | 5.7              | 5.7              | 5.2              |
| LEAD                                              | 65                                                         | 2.5     | 2.5                                                     | NA                                                          | NA                                       | NA              | NA              | NA              | NA              | --               | --               | --               | --               |
| MOLYBDENUM                                        | NA                                                         | NA      | 73                                                      | NA                                                          | NA                                       | NA              | NA              | NA              | NA              | 1.8 J            | 1.8 J            | 1.7 J            | 1.6 J            |
| SELENIUM                                          | NA                                                         | 5       | 1                                                       | 4200                                                        | NA                                       | NA              | NA              | NA              | NA              | --               | 0.98 J           | --               | --               |
| VANADIUM                                          | NA                                                         | NA      | 20                                                      | NA                                                          | NA                                       | NA              | NA              | NA              | NA              | 1 J              | 1.1 J            | 1.2 J            | 1 J              |
| MISCELLANEOUS PARAMETERS (MG/L)                   |                                                            |         |                                                         |                                                             |                                          |                 |                 |                 |                 |                  |                  |                  |                  |
| CALCIUM HARDNESS AS CaCO3                         | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | NA              | NA              | NA              | NA              | 60               | 61               | 61               | 58               |
| HARDNESS AS CaCO3                                 | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | NA              | NA              | NA              | NA              | 230              | 240              | 240              | 220              |
| MAGNESIUM HARDNESS AS CaCO3                       | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | NA              | NA              | NA              | NA              | 170              | 180              | 170              | 160              |

Table 4-2  
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—July 2018  
Frog Mortar Creek  
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| LOCATION                                          | National Recommended Water Quality Criteria <sup>(1)</sup> |         | Ecological Surface Water Screening Level <sup>(2)</sup> | Human Health Consumption of Organism Only <sup>(1)(3)</sup> | Swimming Screening Levels <sup>(4)</sup> | MSA-SW38A        | MSA-SW38B        | MSA-SW38C        | MSA-SW38D        | MSA-SW39A        | MSA-SW39B        | MSA-SW39C        | MSA-SW39D        |
|---------------------------------------------------|------------------------------------------------------------|---------|---------------------------------------------------------|-------------------------------------------------------------|------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| SAMPLE ID                                         |                                                            |         |                                                         |                                                             |                                          | MSA-SW38A-070918 | MSA-SW38B-070918 | MSA-SW38C-070918 | MSA-SW38D-070918 | MSA-SW39A-070918 | MSA-SW39B-070918 | MSA-SW39C-070918 | MSA-SW39D-070918 |
| SAMPLE DATE                                       | Acute                                                      | Chronic |                                                         |                                                             |                                          | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         |
| VOLATILES (UG/L)                                  |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |                  |
| 2-BUTANONE                                        | NA                                                         | NA      | 14000                                                   | NA                                                          | NA                                       | --               | --               | --               | --               | 1.3 J            | --               | --               | --               |
| CHLOROMETHANE                                     | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               | --               |
| CIS-1,2-DICHLOROETHENE                            | NA                                                         | NA      | 590                                                     | NA                                                          | 300                                      | 0.72 J           | --               | 0.2 J            | --               | --               | --               | 0.16 J           | 0.24 J           |
| M+P-XYLENES                                       | NA                                                         | NA      | 13                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               | --               |
| TOLUENE                                           | NA                                                         | NA      | 2                                                       | 1500                                                        | NA                                       | --               | --               | --               | --               | --               | --               | --               | --               |
| TOTAL XYLENES                                     | NA                                                         | NA      | 13                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               | --               |
| TRICHLOROETHENE                                   | NA                                                         | NA      | 21                                                      | 7                                                           | 10                                       | 0.15 J           | --               | --               | --               | --               | --               | --               | --               |
| VINYL CHLORIDE                                    | NA                                                         | NA      | 930                                                     | 24                                                          | 0.7                                      | 0.99             | --               | --               | --               | --               | --               | --               | --               |
| TENTATIVELY IDENTIFIED COMPOUNDS-VOLATILES (UG/L) |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |                  |
| UNKNOWN                                           | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | NA               | NA               | NA               | NA               | NA               | 2.9 NJ           | NA               | NA               |
| DISSOLVED METALS (UG/L)                           |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |                  |
| ANTIMONY                                          | NA                                                         | NA      | 30                                                      | 640                                                         | NA                                       | --               | --               | --               | --               | --               | --               | --               | --               |
| ARSENIC                                           | 340                                                        | 150     | 5                                                       | 0.14                                                        | NA                                       | 1.5 J            | 1.4 J            | 1.4 J            | 1.4 J            | 1.2 J            | 1.2 J            | 1.1 J            | 1.4 J            |
| BARIUM                                            | NA                                                         | NA      | 4                                                       | NA                                                          | NA                                       | 12               | 13               | 14               | 12               | 14               | 14               | 14               | 14               |
| BERYLLIUM                                         | NA                                                         | NA      | 0.66                                                    | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               | --               |
| CADMIUM                                           | 2                                                          | 0.25    | 0.25                                                    | NA                                                          | NA                                       | --               | --               | 0.25 J           | --               | --               | --               | --               | --               |
| CHROMIUM                                          | 16                                                         | 11      | 85                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               | --               |
| COBALT                                            | NA                                                         | NA      | 23                                                      | NA                                                          | NA                                       | 0.38 J           | 0.35 J           | 0.48 J           | --               | --               | --               | --               | --               |
| COPPER                                            | 28.25                                                      | 17.57   | 17.57                                                   | NA                                                          | NA                                       | 5.5              | 6.3              | 5.6              | 5.6              | 4.2              | 5                | 5.2              | 5.6              |
| LEAD                                              | 65                                                         | 2.5     | 2.5                                                     | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               | --               |
| MOLYBDENUM                                        | NA                                                         | NA      | 73                                                      | NA                                                          | NA                                       | 1.6 J            | 1.6 J            | 1.7 J            | 1.6 J            | 1.6 J            | 1.7 J            | 1.7 J            | 1.6 J            |
| SELENIUM                                          | NA                                                         | 5       | 1                                                       | 4200                                                        | NA                                       | --               | --               | --               | --               | --               | --               | --               | --               |
| VANADIUM                                          | NA                                                         | NA      | 20                                                      | NA                                                          | NA                                       | 0.96 J           | 1.1 J            | 1 J              | 0.94 J           | --               | --               | 0.93 J           | 0.82 J           |
| MISCELLANEOUS PARAMETERS (MG/L)                   |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |                  |
| CALCIUM HARDNESS AS CaCO3                         | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 59               | 62               | 63               | 60               | 60               | 64               | 65               | 63               |
| HARDNESS AS CaCO3                                 | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 230              | 240              | 250              | 230              | 240              | 260              | 270              | 250              |
| MAGNESIUM HARDNESS AS CaCO3                       | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 170              | 180              | 180              | 170              | 180              | 200              | 200              | 190              |

Table 4-2  
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—July 2018  
Frog Mortar Creek  
Lockheed Martin, Martin State Airport, Middle River, Maryland  
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| LOCATION                                          | National Recommended Water Quality Criteria <sup>(1)</sup> |         | Ecological Surface Water Screening Level <sup>(2)</sup> | Human Health Consumption of Organism Only <sup>(1)(3)</sup> | Swimming Screening Levels <sup>(4)</sup> | MSA-SW40A        | MSA-SW40B        | MSA-SW40C        | MSA-SW40D        | MSA-SW41A        | MSA-SW41B        | MSA-SW41C        |
|---------------------------------------------------|------------------------------------------------------------|---------|---------------------------------------------------------|-------------------------------------------------------------|------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| SAMPLE ID                                         |                                                            |         |                                                         |                                                             |                                          | MSA-SW40A-070918 | MSA-SW40B-070918 | MSA-SW40C-070918 | MSA-SW40D-070918 | MSA-SW41A-070918 | MSA-SW41B-070918 | MSA-SW41C-070918 |
| SAMPLE DATE                                       | Acute                                                      | Chronic |                                                         |                                                             |                                          | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         |
| VOLATILES (UG/L)                                  |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |
| 2-BUTANONE                                        | NA                                                         | NA      | 14000                                                   | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| CHLOROMETHANE                                     | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| CIS-1,2-DICHLOROETHENE                            | NA                                                         | NA      | 590                                                     | NA                                                          | 300                                      | 0.18 J           | 0.33 J           | 0.21 J           | --               | --               | 0.18 J           | --               |
| M+P-XYLENES                                       | NA                                                         | NA      | 13                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| TOLUENE                                           | NA                                                         | NA      | 2                                                       | 1500                                                        | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| TOTAL XYLENES                                     | NA                                                         | NA      | 13                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| TRICHLOROETHENE                                   | NA                                                         | NA      | 21                                                      | 7                                                           | 10                                       | --               | 0.23 J           | --               | --               | --               | --               | --               |
| VINYL CHLORIDE                                    | NA                                                         | NA      | 930                                                     | 24                                                          | 0.7                                      | --               | --               | --               | --               | --               | --               | --               |
| TENTATIVELY IDENTIFIED COMPOUNDS-VOLATILES (UG/L) |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |
| UNKNOWN                                           | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | NA               | NA               | NA               | NA               | NA               | NA               | NA               |
| DISSOLVED METALS (UG/L)                           |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |
| ANTIMONY                                          | NA                                                         | NA      | 30                                                      | 640                                                         | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| ARSENIC                                           | 340                                                        | 150     | 5                                                       | 0.14                                                        | NA                                       | 1.3 J            | 1.5 J            | 1.4 J            | 1.8 J            | 1.5 J            | 1.2 J            | 1.5 J            |
| BARIUM                                            | NA                                                         | NA      | 4                                                       | NA                                                          | NA                                       | 12               | 13               | 14               | 14               | 13               | 13               | 13               |
| BERYLLIUM                                         | NA                                                         | NA      | 0.66                                                    | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| CADMIUM                                           | 2                                                          | 0.25    | 0.25                                                    | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| CHROMIUM                                          | 16                                                         | 11      | 85                                                      | NA                                                          | NA                                       | --               | --               | --               | 1.2 J            | --               | --               | --               |
| COBALT                                            | NA                                                         | NA      | 23                                                      | NA                                                          | NA                                       | --               | --               | --               | 0.36 J           | --               | --               | --               |
| COPPER                                            | 28.25                                                      | 17.57   | 17.57                                                   | NA                                                          | NA                                       | 5.2              | 5.8              | 6                | 8.3              | 5.8              | 5.7              | 5.5              |
| LEAD                                              | 65                                                         | 2.5     | 2.5                                                     | NA                                                          | NA                                       | --               | --               | --               | 0.92 J           | --               | --               | --               |
| MOLYBDENUM                                        | NA                                                         | NA      | 73                                                      | NA                                                          | NA                                       | 1.6 J            | 1.7 J            | 1.7 J            | 1.7 J            | 1.7 J            | 1.7 J            | 1.7 J            |
| SELENIUM                                          | NA                                                         | 5       | 1                                                       | 4200                                                        | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| VANADIUM                                          | NA                                                         | NA      | 20                                                      | NA                                                          | NA                                       | 0.93 J           | 1.1 J            | 1.1 J            | 1.4 J            | 0.92 J           | 1 J              | 0.86 J           |
| MISCELLANEOUS PARAMETERS (MG/L)                   |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |
| CALCIUM HARDNESS AS CaCO3                         | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 59               | 61               | 61               | 60               | 63               | 62               | 62               |
| HARDNESS AS CaCO3                                 | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 230              | 240              | 240              | 230              | 250              | 250              | 240              |
| MAGNESIUM HARDNESS AS CaCO3                       | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 170              | 180              | 180              | 170              | 180              | 180              | 180              |



Table 4-2  
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—July 2018  
Frog Mortar Creek  
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| LOCATION                                          | National Recommended Water Quality Criteria <sup>(1)</sup> |         | Ecological Surface Water Screening Level <sup>(2)</sup> | Human Health Consumption of Organism Only <sup>(1)(3)</sup> | Swimming Screening Levels <sup>(4)</sup> | MSA-SW41D        | MSA-SW42A        | MSA-SW42B        | MSA-SW42C        | MSA-SW42D        | MSA-SW43A        | MSA-SW43B        |
|---------------------------------------------------|------------------------------------------------------------|---------|---------------------------------------------------------|-------------------------------------------------------------|------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| SAMPLE ID                                         |                                                            |         |                                                         |                                                             |                                          | MSA-SW41D-070918 | MSA-SW42A-070918 | MSA-SW42B-070918 | MSA-SW42C-070918 | MSA-SW42D-070918 | MSA-SW43A-070918 | MSA-SW43B-070918 |
| SAMPLE DATE                                       | Acute                                                      | Chronic |                                                         |                                                             |                                          | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         |
| VOLATILES (UG/L)                                  |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |
| 2-BUTANONE                                        | NA                                                         | NA      | 14000                                                   | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| CHLOROMETHANE                                     | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| CIS-1,2-DICHLOROETHENE                            | NA                                                         | NA      | 590                                                     | NA                                                          | 300                                      | --               | --               | --               | 0.2 J            | --               | --               | --               |
| M+P-XYLENES                                       | NA                                                         | NA      | 13                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| TOLUENE                                           | NA                                                         | NA      | 2                                                       | 1500                                                        | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| TOTAL XYLENES                                     | NA                                                         | NA      | 13                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| TRICHLOROETHENE                                   | NA                                                         | NA      | 21                                                      | 7                                                           | 10                                       | --               | --               | --               | --               | --               | --               | --               |
| VINYL CHLORIDE                                    | NA                                                         | NA      | 930                                                     | 24                                                          | 0.7                                      | --               | --               | --               | --               | --               | --               | --               |
| TENTATIVELY IDENTIFIED COMPOUNDS-VOLATILES (UG/L) |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |
| UNKNOWN                                           | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | NA               | NA               | NA               | NA               | NA               | NA               | NA               |
| DISSOLVED METALS (UG/L)                           |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |
| ANTIMONY                                          | NA                                                         | NA      | 30                                                      | 640                                                         | NA                                       | --               | --               | 0.61 J           | --               | --               | --               | --               |
| ARSENIC                                           | 340                                                        | 150     | 5                                                       | 0.14                                                        | NA                                       | 1.2 J            | 1.7 J            | 1.7 J            | 1.6 J            | 1.4 J            | 1.4 J            | 1.2 J            |
| BARIUM                                            | NA                                                         | NA      | 4                                                       | NA                                                          | NA                                       | 13               | 13               | 13               | 12               | 13               | 13               | 13               |
| BERYLLIUM                                         | NA                                                         | NA      | 0.66                                                    | NA                                                          | NA                                       | --               | 0.44 J           | 0.88 J           | 0.55 J           | --               | --               | --               |
| CADMIUM                                           | 2                                                          | 0.25    | 0.25                                                    | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| CHROMIUM                                          | 16                                                         | 11      | 85                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| COBALT                                            | NA                                                         | NA      | 23                                                      | NA                                                          | NA                                       | --               | 0.33 J           | 0.31 J           | --               | --               | --               | --               |
| COPPER                                            | 28.25                                                      | 17.57   | 17.57                                                   | NA                                                          | NA                                       | 5.3              | 6.7              | 5.5              | 5.4              | 5.6              | 5.8              | 5.8              |
| LEAD                                              | 65                                                         | 2.5     | 2.5                                                     | NA                                                          | NA                                       | --               | 0.6 J            | --               | --               | --               | --               | --               |
| MOLYBDENUM                                        | NA                                                         | NA      | 73                                                      | NA                                                          | NA                                       | 1.7 J            | 1.8 J            | 1.8 J            | 1.6 J            | 1.7 J            | 1.6 J            | 1.7 J            |
| SELENIUM                                          | NA                                                         | 5       | 1                                                       | 4200                                                        | NA                                       | --               | --               | --               | --               | --               | --               | --               |
| VANADIUM                                          | NA                                                         | NA      | 20                                                      | NA                                                          | NA                                       | 0.97 J           | 1.4 J            | 1 J              | 1 J              | 0.97 J           | 0.93 J           | 0.98 J           |
| MISCELLANEOUS PARAMETERS (MG/L)                   |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |
| CALCIUM HARDNESS AS CaCO3                         | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 60               | 62               | 60               | 59               | 61               | 60               | 62               |
| HARDNESS AS CaCO3                                 | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 230              | 250              | 240              | 230              | 240              | 240              | 250              |
| MAGNESIUM HARDNESS AS CaCO3                       | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 170              | 180              | 180              | 170              | 180              | 180              | 180              |

Table 4-2  
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—July 2018  
Frog Mortar Creek  
Lockheed Martin, Martin State Airport, Middle River, Maryland  
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| LOCATION                                          | National Recommended Water Quality Criteria <sup>(1)</sup> |         | Ecological Surface Water Screening Level <sup>(2)</sup> | Human Health Consumption of Organism Only <sup>(1)(3)</sup> | Swimming Screening Levels <sup>(4)</sup> | MSA-SW43C        | MSA-SW43D        | MSA-SW44A        | MSA-SW44B        | MSA-SW44C        | MSA-SW44D        |
|---------------------------------------------------|------------------------------------------------------------|---------|---------------------------------------------------------|-------------------------------------------------------------|------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| SAMPLE ID                                         |                                                            |         |                                                         |                                                             |                                          | MSA-SW43C-070918 | MSA-SW43D-070918 | MSA-SW44A-070918 | MSA-SW44B-070918 | MSA-SW44C-070918 | MSA-SW44D-070918 |
| SAMPLE DATE                                       | Acute                                                      | Chronic |                                                         |                                                             |                                          | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         |
| VOLATILES (UG/L)                                  |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |
| 2-BUTANONE                                        | NA                                                         | NA      | 14000                                                   | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               |
| CHLOROMETHANE                                     | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               |
| CIS-1,2-DICHLOROETHENE                            | NA                                                         | NA      | 590                                                     | NA                                                          | 300                                      | --               | --               | --               | --               | --               | --               |
| M+P-XYLENES                                       | NA                                                         | NA      | 13                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               |
| TOLUENE                                           | NA                                                         | NA      | 2                                                       | 1500                                                        | NA                                       | --               | --               | --               | --               | --               | --               |
| TOTAL XYLENES                                     | NA                                                         | NA      | 13                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               |
| TRICHLOROETHENE                                   | NA                                                         | NA      | 21                                                      | 7                                                           | 10                                       | --               | --               | --               | --               | --               | --               |
| VINYL CHLORIDE                                    | NA                                                         | NA      | 930                                                     | 24                                                          | 0.7                                      | --               | --               | --               | --               | --               | --               |
| TENTATIVELY IDENTIFIED COMPOUNDS-VOLATILES (UG/L) |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |
| UNKNOWN                                           | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | NA               | NA               | NA               | NA               | NA               | NA               |
| DISSOLVED METALS (UG/L)                           |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |
| ANTIMONY                                          | NA                                                         | NA      | 30                                                      | 640                                                         | NA                                       | --               | --               | --               | --               | --               | --               |
| ARSENIC                                           | 340                                                        | 150     | 5                                                       | 0.14                                                        | NA                                       | 1.4 J            | 1.4 J            | 1.2 J            | 1.1 J            | 1.1 J            | 1.3 J            |
| BARIUM                                            | NA                                                         | NA      | 4                                                       | NA                                                          | NA                                       | 13               | 13               | 13               | 13               | 12               | 14               |
| BERYLLIUM                                         | NA                                                         | NA      | 0.66                                                    | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               |
| CADMIUM                                           | 2                                                          | 0.25    | 0.25                                                    | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               |
| CHROMIUM                                          | 16                                                         | 11      | 85                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               |
| COBALT                                            | NA                                                         | NA      | 23                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               |
| COPPER                                            | 28.25                                                      | 17.57   | 17.57                                                   | NA                                                          | NA                                       | 5.5              | 5.8              | 5.6              | 5.5              | 5.9              | 5.7              |
| LEAD                                              | 65                                                         | 2.5     | 2.5                                                     | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               |
| MOLYBDENUM                                        | NA                                                         | NA      | 73                                                      | NA                                                          | NA                                       | 1.7 J            | 1.7 J            | 1.7 J            | 1.7 J            | 1.5 J            | 1.7 J            |
| SELENIUM                                          | NA                                                         | 5       | 1                                                       | 4200                                                        | NA                                       | --               | --               | --               | --               | --               | --               |
| VANADIUM                                          | NA                                                         | NA      | 20                                                      | NA                                                          | NA                                       | 1 J              | 0.99 J           | 0.96 J           | 0.96 J           | 0.82 J           | --               |
| MISCELLANEOUS PARAMETERS (MG/L)                   |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |
| CALCIUM HARDNESS AS CaCO3                         | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 62               | 61               | 64               | 63               | 58               | 65               |
| HARDNESS AS CaCO3                                 | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 250              | 240              | 260              | 250              | 230              | 260              |
| MAGNESIUM HARDNESS AS CaCO3                       | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 180              | 180              | 190              | 190              | 170              | 190              |

Table 4-2  
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—July 2018  
Frog Mortar Creek  
Lockheed Martin, Martin State Airport, Middle River, Maryland  
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| LOCATION                                          | National Recommended Water Quality Criteria <sup>(1)</sup> |         | Ecological Surface Water Screening Level <sup>(2)</sup> | Human Health Consumption of Organism Only <sup>(1)(3)</sup> | Swimming Screening Levels <sup>(4)</sup> | MSA-SW45A        | MSA-SW45B        | MSA-SW45C        | MSA-SW45D        | MSA-SW46A        | MSA-SW47A        | MSA-SW48A        | MSA-SW49A        |
|---------------------------------------------------|------------------------------------------------------------|---------|---------------------------------------------------------|-------------------------------------------------------------|------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| SAMPLE ID                                         |                                                            |         |                                                         |                                                             |                                          | MSA-SW45A-070918 | MSA-SW45B-070918 | MSA-SW45C-070918 | MSA-SW45D-070918 | MSA-SW46A-070918 | MSA-SW47A-070918 | MSA-SW48A-070918 | MSA-SW49A-070918 |
| SAMPLE DATE                                       | Acute                                                      | Chronic |                                                         |                                                             |                                          | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         |
| VOLATILES (UG/L)                                  |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |                  |
| 2-BUTANONE                                        | NA                                                         | NA      | 14000                                                   | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               | --               |
| CHLOROMETHANE                                     | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               | --               |
| CIS-1,2-DICHLOROETHENE                            | NA                                                         | NA      | 590                                                     | NA                                                          | 300                                      | --               | 0.22 J           | --               | --               | 0.18 J           | 0.21 J           | 0.27 J           | 0.29 J           |
| M+P-XYLENES                                       | NA                                                         | NA      | 13                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               | --               |
| TOLUENE                                           | NA                                                         | NA      | 2                                                       | 1500                                                        | NA                                       | --               | --               | --               | --               | --               | --               | --               | --               |
| TOTAL XYLENES                                     | NA                                                         | NA      | 13                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | --               | --               | --               | --               |
| TRICHLOROETHENE                                   | NA                                                         | NA      | 21                                                      | 7                                                           | 10                                       | --               | 0.13 J           | --               | --               | --               | --               | --               | 0.13 J           |
| VINYL CHLORIDE                                    | NA                                                         | NA      | 930                                                     | 24                                                          | 0.7                                      | --               | --               | --               | --               | --               | --               | --               | --               |
| TENTATIVELY IDENTIFIED COMPOUNDS-VOLATILES (UG/L) |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |                  |
| UNKNOWN                                           | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | NA               | NA               | NA               | NA               | NA               | NA               | NA               | NA               |
| DISSOLVED METALS (UG/L)                           |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |                  |
| ANTIMONY                                          | NA                                                         | NA      | 30                                                      | 640                                                         | NA                                       | --               | --               | --               | --               | NA               | NA               | NA               | NA               |
| ARSENIC                                           | 340                                                        | 150     | 5                                                       | 0.14                                                        | NA                                       | 1.1 J            | 1.3 J            | 1.3 J            | 1.4 J            | NA               | NA               | NA               | NA               |
| BARIUM                                            | NA                                                         | NA      | 4                                                       | NA                                                          | NA                                       | 13               | 14               | 13               | 14               | NA               | NA               | NA               | NA               |
| BERYLLIUM                                         | NA                                                         | NA      | 0.66                                                    | NA                                                          | NA                                       | --               | --               | --               | --               | NA               | NA               | NA               | NA               |
| CADMIUM                                           | 2                                                          | 0.25    | 0.25                                                    | NA                                                          | NA                                       | --               | --               | --               | --               | NA               | NA               | NA               | NA               |
| CHROMIUM                                          | 16                                                         | 11      | 85                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | NA               | NA               | NA               | NA               |
| COBALT                                            | NA                                                         | NA      | 23                                                      | NA                                                          | NA                                       | --               | --               | --               | --               | NA               | NA               | NA               | NA               |
| COPPER                                            | 28.25                                                      | 17.57   | 17.57                                                   | NA                                                          | NA                                       | 4.4              | 5.4              | 5.3              | 5.8              | NA               | NA               | NA               | NA               |
| LEAD                                              | 65                                                         | 2.5     | 2.5                                                     | NA                                                          | NA                                       | --               | --               | --               | --               | NA               | NA               | NA               | NA               |
| MOLYBDENUM                                        | NA                                                         | NA      | 73                                                      | NA                                                          | NA                                       | 1.5 J            | 1.7 J            | 1.7 J            | 1.7 J            | NA               | NA               | NA               | NA               |
| SELENIUM                                          | NA                                                         | 5       | 1                                                       | 4200                                                        | NA                                       | --               | --               | --               | --               | NA               | NA               | NA               | NA               |
| VANADIUM                                          | NA                                                         | NA      | 20                                                      | NA                                                          | NA                                       | --               | --               | 0.83 J           | 0.9 J            | NA               | NA               | NA               | NA               |
| MISCELLANEOUS PARAMETERS (MG/L)                   |                                                            |         |                                                         |                                                             |                                          |                  |                  |                  |                  |                  |                  |                  |                  |
| CALCIUM HARDNESS AS CaCO3                         | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 58               | 64               | 64               | 62               | NA               | NA               | NA               | NA               |
| HARDNESS AS CaCO3                                 | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 240              | 250              | 260              | 250              | NA               | NA               | NA               | NA               |
| MAGNESIUM HARDNESS AS CaCO3                       | NA                                                         | NA      | NA                                                      | NA                                                          | NA                                       | 180              | 190              | 190              | 190              | NA               | NA               | NA               | NA               |

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

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

3 For carcinogens, criterion is for incremental cancer risk of 1x10<sup>-5</sup>

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

5 The BTAG screening benchmark for 1,2-dichloroethene (590 µg/L) is used as a surrogate screening level for *cis* -1,2-dichloroethene.

6 The BTAG screening benchmark is based on total metal concentration for this analyte; therefore, the dissolved metals result is not screened against the BTAG benchmark.

7 In accordance with USEPA (2002 and 2006), the option to use site-specific hardness was selected to adjust this criterion instead of the standard hardness concentration of 100 mg/L. As recommended by USEPA (2002), a hardness value of 400 mg/L is used for instances when the minimum measured site-specific hardness is greater than 400 mg/L for July 2018 sampling, therefore 220 mg/L was used for conversion).

Gray shading indicates a result that exceeds a screening criterion.

-- not detected

CaCO<sub>3</sub> - calcium carbonate

EL - Edwards Lane

J - estimated result

µg/L - micrograms per liter

mg/L - milligrams per liter

NJ - unidentified compound estimated value

MSA - Martin State Airport

NA - not analyzed or not available

SW - surface water

Table 4-3

## Surface Water Chemical Results for Primary Volatile Organic Compounds for July 2017, June 2017, and July 2016

## Frog Mortar Creek

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

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| Location ID                        | Trichloroethene concentrations (µg/L) |              |              | cis -1,2-Dichloroethene concentrations (µg/L) |              |              | Vinyl chloride concentrations (µg/L) |              |              |
|------------------------------------|---------------------------------------|--------------|--------------|-----------------------------------------------|--------------|--------------|--------------------------------------|--------------|--------------|
|                                    | July 18, 2017                         | June 7, 2018 | July 9, 2018 | July 18, 2017                                 | June 7, 2018 | July 9, 2018 | July 18, 2017                        | June 7, 2018 | July 9, 2018 |
| Average-Detections                 | 0.5706                                | NA           | 0.1433       | 0.681                                         | 0.219        | 0.2447       | 2.265                                | 0.3          | 0.625        |
| Average-All Samples <sup>(1)</sup> | 0.3309                                | NA           | 0.0627       | 0.3914                                        | 0.1156       | 0.1436       | 0.4105                               | 0.1136       | 0.12386      |
| Maximum Concentration              | 1.3                                   | NA           | 0.23 J       | 3.9                                           | 0.33 J       | 0.72 J       | 5.7                                  | 0.38 J       | 0.99         |
| No. of Detections/Samples          | 18/44                                 | NA           | 6/44         | 20/44                                         | 10/44        | 17/44        | 4/44                                 | 3/44         | 2/44         |
| EL-SW01A                           | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| EL-SW01B                           | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| EL-SW01C                           | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| EL-SW01D                           | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| MSA-SW37A                          | --                                    | --           | --           | --                                            | --           | 0.16 J       | --                                   | --           | --           |
| MSA-SW37B                          | 0.34 J                                | --           | 0.11 J       | 0.34 J                                        | 0.23 J       | 0.23 J       | --                                   | --           | 0.26 J       |
| MSA-SW37C                          | --                                    | --           | 0.11 J       | --                                            | 0.26 J       | 0.18 J       | --                                   | 0.31 J       | --           |
| MSA-SW37D                          | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| MSA-SW38A                          | 1.2                                   | --           | 0.15 J       | 3.9                                           | 0.33 J       | 0.72 J       | 5.7                                  | 0.38 J       | 0.99         |
| MSA-SW38B                          | 0.61 J                                | --           | --           | 0.49 J                                        | 0.22 J       | --           | --                                   | --           | --           |
| MSA-SW38C                          | 0.34 J                                | --           | --           | 0.37 J                                        | --           | 0.2 J        | --                                   | --           | --           |
| MSA-SW38D                          | 0.35 J                                | --           | --           | 0.34 J                                        | --           | --           | --                                   | --           | --           |
| MSA-SW39A                          | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| MSA-SW39B                          | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| MSA-SW39C                          | --                                    | --           | --           | --                                            | --           | 0.16 J       | --                                   | --           | --           |
| MSA-SW39D                          | --                                    | --           | --           | --                                            | --           | 0.24 J       | --                                   | --           | --           |
| MSA-SW40A                          | 0.42 J                                | --           | --           | 0.85 J                                        | --           | 0.18 J       | 1.1                                  | --           | --           |
| MSA-SW40B                          | 0.46 J                                | --           | 0.23 J       | 0.42 J                                        | 0.16 J       | 0.33 J       | --                                   | --           | --           |
| MSA-SW40C                          | 0.51 J                                | --           | --           | 0.4 J                                         | --           | 0.21 J       | --                                   | --           | --           |
| MSA-SW40D                          | 0.46 J                                | --           | --           | 0.31 J                                        | --           | --           | --                                   | --           | --           |
| MSA-SW41A                          | 0.49 J                                | --           | --           | 0.54 J                                        | --           | --           | --                                   | --           | --           |
| MSA-SW41B                          | --                                    | --           | --           | --                                            | --           | 0.18 J       | --                                   | --           | --           |
| MSA-SW41C                          | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| MSA-SW41D                          | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| MSA-SW42A                          | --                                    | --           | --           | --                                            | 0.17 J       | --           | --                                   | --           | --           |
| MSA-SW42B                          | 0.79 J                                | --           | --           | 0.47 J                                        | 0.18 J       | --           | --                                   | 0.21 J       | --           |
| MSA-SW42C                          | 0.69 J                                | --           | --           | 0.43 J                                        | --           | 0.2 J        | --                                   | --           | --           |
| MSA-SW42D                          | 0.41 J                                | --           | --           | 0.39 J                                        | --           | --           | --                                   | --           | --           |

Table 4-3

**Surface Water Chemical Results for Primary Volatile Organic Compounds for July 2017, June 2017, and July 2016**  
**Frog Mortar Creek**  
**Lockheed Martin, Martin State Airport, Middle River, Maryland**  
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| Location ID                        | Trichloroethene concentrations (µg/L) |              |              | cis -1,2-Dichloroethene concentrations (µg/L) |              |              | Vinyl chloride concentrations (µg/L) |              |              |
|------------------------------------|---------------------------------------|--------------|--------------|-----------------------------------------------|--------------|--------------|--------------------------------------|--------------|--------------|
|                                    | July 18, 2017                         | June 7, 2018 | July 9, 2018 | July 18, 2017                                 | June 7, 2018 | July 9, 2018 | July 18, 2017                        | June 7, 2018 | July 9, 2018 |
| Average-Detections                 | 0.5706                                | NA           | 0.1433       | 0.681                                         | 0.219        | 0.2447       | 2.265                                | 0.3          | 0.625        |
| Average-All Samples <sup>(1)</sup> | 0.3309                                | NA           | 0.0627       | 0.3914                                        | 0.1156       | 0.1436       | 0.4105                               | 0.1136       | 0.12386      |
| Maximum Concentration              | 1.3                                   | NA           | 0.23 J       | 3.9                                           | 0.33 J       | 0.72 J       | 5.7                                  | 0.38 J       | 0.99         |
| No. of Detections/Samples          | 18/44                                 | NA           | 6/44         | 20/44                                         | 10/44        | 17/44        | 4/44                                 | 3/44         | 2/44         |
| MSA-SW43A                          | 0.36 J                                | --           | --           | 0.35 J                                        | --           | --           | --                                   | --           | --           |
| MSA-SW43B                          | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| MSA-SW43C                          | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| MSA-SW43D                          | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| MSA-SW44A                          | 0.59 J                                | --           | --           | 0.63 J                                        | --           | --           | --                                   | --           | --           |
| MSA-SW44B                          | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| MSA-SW44C                          | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| MSA-SW44D                          | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| MSA-SW45A                          | --                                    | --           | --           | 0.34 J                                        | --           | --           | --                                   | --           | --           |
| MSA-SW45B                          | --                                    | --           | 0.13 J       | --                                            | --           | 0.22 J       | --                                   | --           | --           |
| MSA-SW45C                          | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| MSA-SW45D                          | --                                    | --           | --           | --                                            | --           | --           | --                                   | --           | --           |
| MSA-SW46A                          | --                                    | --           | --           | 0.3 J                                         | 0.23 J       | 0.18 J       | --                                   | --           | --           |
| MSA-SW47A                          | 0.38 J                                | --           | --           | 0.99 J                                        | --           | 0.21 J       | 1.6                                  | --           | --           |
| MSA-SW48A                          | 0.57 J                                | --           | --           | 0.76 J                                        | 0.25 J       | 0.27 J       | 0.66                                 | --           | --           |
| MSA-SW49A                          | 1.3                                   | --           | 0.13 J       | 1                                             | 0.16 J       | 0.29 J       | --                                   | --           | --           |

-- = analysis not performed.

J = estimated positive value due to QC noncompliance.

na - Not applicable/ not detected

1 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.

J - estimated value

µg/L - micrograms per liter

-- not detected

EL - Edwards Lane

J - estimated value

µg/L - micrograms per liter

MSA - Martin State Airport

SW - surface water



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# APPENDICES

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**Appendix A—Field Measurements for Water Quality and Surface-Water-Sample Log  
Sheets**

**Appendix B—Data-Validation Reports**

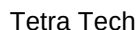
**Appendix C—Chemical-Results Data Table**

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## **APPENDIX A—FIELD MEASUREMENTS FOR WATER QUALITY AND SURFACE-WATER-SAMPLE LOG SHEETS**

**Water Quality Field Parameters-July 2018**  
**Frog Mortar Creek**  
**Lockheed Martin, Martin State Airport, Middle River Maryland**

| Sample ID |         | Date        | Time          | pH                   | Specific conductance (S.C.)         | Temperature (Temp.)  | Turbidity                          | Dissolved oxygen (DO)       | Salinity                 | Oxidation-reduction potential (ORP) | Water Depth |
|-----------|---------|-------------|---------------|----------------------|-------------------------------------|----------------------|------------------------------------|-----------------------------|--------------------------|-------------------------------------|-------------|
| Location  | Date ID | mo/day/year | 24-hour units | Standard unit (S.U.) | MilliSiemens per centimeter (mS/cm) | Degrees Celsius (°C) | Nephelometric turbidity unit (NTU) | Milligrams per liter (mg/L) | Parts per thousand (ppt) | MilliVolts (mV)                     | Meters (m)  |
| EL-SW01A  | -070918 | 7/9/2018    | 0918          | 7.26                 | 2.2                                 | 26.84                | 9.12                               | 6.16                        | 1.1                      | 198                                 | 0.4         |
| EL-SW01B  | -070918 | 7/9/2018    | 0922          | 7.44                 | 2.1                                 | 27.11                | 10.39                              | 5.16                        | 1.1                      | 182                                 | 0.8         |
| EL-SW01C  | -070918 | 7/9/2018    | 0925          | 7.56                 | 2.1                                 | 27.13                | 10.83                              | 5.01                        | 1.1                      | 176                                 | 1.1         |
| EL-SW01D  | -070918 | 7/9/2018    | 0928          | 7.59                 | 2.2                                 | 27.03                | 10.57                              | 4.66                        | 1.1                      | 173                                 | 1.6         |
| MSA-SW37A | -070918 | 7/9/2018    | 1300          | 7.96                 | 2.1                                 | 29.16                | 8.89                               | 6.06                        | 1.1                      | 169                                 | 0.5         |
| MSA-SW37B | -070918 | 7/9/2018    | 1305          | 7.98                 | 2.1                                 | 28.68                | 10.82                              | 6.64                        | 1.1                      | 168                                 | 1.0         |
| MSA-SW37C | -070918 | 7/9/2018    | 1309          | 7.93                 | 2.1                                 | 28.36                | 11.03                              | 5.91                        | 1.1                      | 170                                 | 1.7         |
| MSA-SW37D | -070918 | 7/9/2018    | 1315          | 7.89                 | 2.1                                 | 27.99                | 11.92                              | 5.61                        | 1.1                      | 170                                 | 2.2         |
| MSA-SW38A | -070918 | 7/9/2018    | 1147          | 7.80                 | 2.1                                 | 28.87                | 10.43                              | 5.97                        | 1.1                      | 173                                 | 0.5         |
| MSA-SW38B | -070918 | 7/9/2018    | 1151          | 7.87                 | 2.1                                 | 28.61                | 9.82                               | 5.80                        | 1.1                      | 173                                 | 1.3         |
| MSA-SW38C | -070918 | 7/9/2018    | 1156          | 7.86                 | 2.1                                 | 28.30                | 9.58                               | 5.79                        | 1.1                      | 173                                 | 1.5         |
| MSA-SW38D | -070918 | 7/9/2018    | 1203          | 7.83                 | 2.1                                 | 28.10                | 10.55                              | 5.85                        | 1.1                      | 173                                 | 1.6         |
| MSA-SW39A | -070918 | 7/9/2018    | 0938          | 7.86                 | 2.4                                 | 26.79                | 6.15                               | 5.87                        | 1.2                      | 165                                 | 0.9         |
| MSA-SW39B | -070918 | 7/9/2018    | 0944          | 7.90                 | 2.4                                 | 27.05                | 5.74                               | 5.49                        | 1.2                      | 164                                 | 1.2         |
| MSA-SW39C | -070918 | 7/9/2018    | 0950          | 7.88                 | 2.3                                 | 27.23                | 9.09                               | 5.40                        | 1.2                      | 167                                 | 1.5         |
| MSA-SW39D | -070918 | 7/9/2018    | 0956          | 7.85                 | 2.3                                 | 27.19                | 9.05                               | 5.80                        | 1.2                      | 163                                 | 2.1         |
| MSA-SW40A | -070918 | 7/9/2018    | 1215          | 8.18                 | 2.2                                 | 29.52                | 13.10                              | 5.92                        | 1.1                      | 162                                 | 0.4         |
| MSA-SW40B | -070918 | 7/9/2018    | 1218          | 8.32                 | 2.2                                 | 28.82                | 11.52                              | 7.04                        | 1.1                      | 157                                 | 0.9         |
| MSA-SW40C | -070918 | 7/9/2018    | 1223          | 8.02                 | 2.2                                 | 28.19                | 10.51                              | 5.63                        | 1.1                      | 163                                 | 1.5         |
| MSA-SW40D | -070918 | 7/9/2018    | 1228          | 7.86                 | 2.2                                 | 28.04                | 11.38                              | 5.50                        | 1.1                      | 170                                 | 2.1         |
| MSA-SW41A | -070918 | 7/9/2018    | 1121          | 7.98                 | 2.2                                 | 28.57                | 9.60                               | 5.40                        | 1.1                      | 168                                 | 0.5         |
| MSA-SW41B | -070918 | 7/9/2018    | 1127          | 7.97                 | 2.2                                 | 28.27                | 9.33                               | 5.87                        | 1.1                      | 168                                 | 0.8         |
| MSA-SW41C | -070918 | 7/9/2018    | 1132          | 7.93                 | 2.2                                 | 28.09                | 9.75                               | 6.49                        | 1.1                      | 170                                 | 1.2         |
| MSA-SW41D | -070918 | 7/9/2018    | 1138          | 7.86                 | 2.2                                 | 27.99                | 10.09                              | 5.59                        | 1.1                      | 171                                 | 2.0         |
| MSA-SW42A | -070918 | 7/9/2018    | 1238          | 7.93                 | 2.2                                 | 29.13                | 10.97                              | 5.54                        | 1.1                      | 170                                 | 0.5         |
| MSA-SW42B | -070918 | 7/9/2018    | 1244          | 7.98                 | 2.2                                 | 28.53                | 12.02                              | 5.94                        | 1.1                      | 168                                 | 0.7         |
| MSA-SW42C | -070918 | 7/9/2018    | 1248          | 7.96                 | 2.1                                 | 28.16                | 12.10                              | 6.01                        | 1.1                      | 170                                 | 1.6         |
| MSA-SW42D | -070918 | 7/9/2018    | 1253          | 7.90                 | 2.1                                 | 28.00                | 10.63                              | 5.52                        | 1.1                      | 171                                 | 1.9         |
| MSA-SW43A | -070918 | 7/9/2018    | 1050          | 7.95                 | 2.2                                 | 28.13                | 10.92                              | 5.70                        | 1.1                      | 167                                 | 0.5         |
| MSA-SW43B | -070918 | 7/9/2018    | 1058          | 7.95                 | 2.2                                 | 28.30                | 9.42                               | 5.70                        | 1.1                      | 168                                 | 0.9         |
| MSA-SW43C | -070918 | 7/9/2018    | 1105          | 7.92                 | 2.2                                 | 28.08                | 9.69                               | 5.78                        | 1.1                      | 168                                 | 1.6         |
| MSA-SW43D | -070918 | 7/9/2018    | 1111          | 7.89                 | 2.2                                 | 27.93                | 10.07                              | 5.64                        | 1.1                      | 168                                 | 1.8         |
| MSA-SW44A | -070918 | 7/9/2018    | 1027          | 7.89                 | 2.3                                 | 27.79                | 12.70                              | 5.62                        | 1.2                      | 168                                 | 0.4         |
| MSA-SW44B | -070918 | 7/9/2018    | 1032          | 7.87                 | 2.3                                 | 27.82                | 10.35                              | 5.66                        | 1.2                      | 169                                 | 0.7         |
| MSA-SW44C | -070918 | 7/9/2018    | 1036          | 7.90                 | 2.2                                 | 27.40                | 9.49                               | 5.57                        | 1.1                      | 169                                 | 1.6         |
| MSA-SW44D | -070918 | 7/9/2018    | 1042          | 7.87                 | 2.2                                 | 27.67                | 9.37                               | 5.47                        | 1.1                      | 169                                 | 1.9         |
| MSA-SW45A | -070918 | 7/9/2018    | 1003          | 7.83                 | 2.3                                 | 27.34                | 11.79                              | 5.82                        | 1.2                      | 160                                 | 0.4         |
| MSA-SW45B | -070918 | 7/9/2018    | 1008          | 7.80                 | 2.3                                 | 27.44                | 8.69                               | 5.43                        | 1.2                      | 165                                 | 0.9         |
| MSA-SW45C | -070918 | 7/9/2018    | 1014          | 7.88                 | 2.3                                 | 27.49                | 10.43                              | 5.52                        | 1.2                      | 165                                 | 1.6         |
| MSA-SW45D | -070918 | 7/9/2018    | 1018          | 7.89                 | 2.3                                 | 27.46                | 9.43                               | 5.49                        | 1.2                      | 165                                 | 2.2         |
| MSA-SW46A | -070918 | 7/9/2018    | 1234          | 7.94                 | 2.2                                 | 28.90                | 10.58                              | 5.87                        | 1.1                      | 169                                 | 0.6         |
| MSA-SW47A | -070918 | 7/9/2018    | 1211          | 7.94                 | 2.1                                 | 29.22                | 9.59                               | 5.62                        | 1.1                      | 170                                 | 0.7         |
| MSA-SW48A | -070918 | 7/9/2018    | 1143          | 7.85                 | 2.1                                 | 28.42                | 11.94                              | 5.88                        | 1.1                      | 171                                 | 0.6         |
| MSA-SW49A | -070918 | 7/9/2018    | 1117          | 7.92                 | 2.2                                 | 28.33                | 9.21                               | 5.69                        | 1.1                      | 169                                 | 0.5         |



## Page of

|                  |                  |
|------------------|------------------|
| Sample ID No.:   | EL-SW01A -070918 |
| Sample Location: | EL-SW01A         |
| Sampled By:      | J. Mullis        |
| C.O.C. No.:      |                  |

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

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

|         |                  |                   |              |                 |               |                    |              |                   |           |
|---------|------------------|-------------------|--------------|-----------------|---------------|--------------------|--------------|-------------------|-----------|
| Date:   | 7/9/2018         | Color<br>(Visual) | pH<br>(S.U.) | S.C.<br>(mS/cm) | Temp.<br>(°C) | Turbidity<br>(NTU) | DO<br>(mg/L) | Salinity<br>(ppt) | ORP<br>mV |
| Time:   | 0918             |                   |              |                 |               |                    |              |                   |           |
| Depth:  | 1 ft below water |                   |              |                 |               |                    |              |                   |           |
| Method: | Grab             |                   |              |                 |               |                    |              |                   |           |
|         |                  | clear             | 7.26         | 2.18            | 26.84         | 9.12               | 6.16         | 1.1               | 198       |

[illegible]

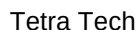
|             |            |
|-------------|------------|
| Water depth | 0.4 meters |
|-------------|------------|

**Signature(s):**

**Duplicate ID No.:**

*J. H. Miller*





## Page of

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

|         |                  |                   |              |                 |               |                    |              |                   |           |
|---------|------------------|-------------------|--------------|-----------------|---------------|--------------------|--------------|-------------------|-----------|
| Date:   | 7/9/2018         | Color<br>(Visual) | pH<br>(S.U.) | S.C.<br>(mS/cm) | Temp.<br>(°C) | Turbidity<br>(NTU) | DO<br>(mg/L) | Salinity<br>(ppt) | ORP<br>mV |
| Time:   | 0922             |                   |              |                 |               |                    |              |                   |           |
| Depth:  | 1 ft below water |                   |              |                 |               |                    |              |                   |           |
| Method: | Grab             |                   |              |                 |               |                    |              |                   |           |

[illegible]

## Water depth 0.8 meters

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

*J. H. Miller*







Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW37A -070918  
 Sample Location: MSA-SW37A  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1300             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.96   | 2.1     | 29.16 | 8.89      | 6.06   | 1.1      | 169 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
|                               |                       |                             |           |
|                               |                       |                             |           |
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## OBSERVATIONS / NOTES:

Water depth 0.5 meters

## MAP:



## Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):





Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW37B -070918  
 Sample Location: MSA-SW37B  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

☐ Stream☐ Spring☐ Pond☐ Lake☒ Other: Tidal creek - freshwater☐ QA Sample Type: \_\_\_\_\_

Type of Sample:

☒ Low Concentration☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1305             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.98   | 2.1     | 28.68 | 10.82     | 6.64   | 1.1      | 168 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
|                               |                       |                             |           |
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|                               |                       |                             |           |

## OBSERVATIONS / NOTES:

Water depth 1 meters

## MAP:

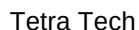


## Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



## Page of

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

**Duplicate ID No.:**

*J. H. H.*







Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW38A -070918  
 Sample Location: MSA-SW38A  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1147             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.80   | 2.11    | 28.87 | 10.43     | 5.97   | 1.1      | 173 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
|                               |                       |                             |           |
|                               |                       |                             |           |
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## OBSERVATIONS / NOTES:

Water depth 0.5 meters

## MAP:



## Circle if Applicable:

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

## Signature(s):



Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW38B -070918  
 Sample Location: MSA-SW38B  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1151             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.87   | 2.1     | 28.61 | 9.82      | 5.8    | 1.1      | 173 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
|                               |                       |                             |           |
|                               |                       |                             |           |
|                               |                       |                             |           |
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## OBSERVATIONS / NOTES:

Water depth 1.3 meters

## MAP:



## Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW38C -070918  
 Sample Location: MSA-SW38C  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1156             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.86   | 2.1     | 28.30 | 9.58      | 5.79   | 1.1      | 173 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
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## OBSERVATIONS / NOTES:

Water depth 1.5 meters

## MAP:



## Circle if Applicable:

MS/MSD

Duplicate ID No.:

## Signature(s):





Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW38D -070918  
 Sample Location: MSA-SW38D  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1203             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.83   | 2.10    | 28.1  | 10.55     | 5.85   | 1.1      | 173 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
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## OBSERVATIONS / NOTES:

Water depth 1.6 meters

## MAP:



## Circle if Applicable:

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









Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW39C -070918  
 Sample Location: MSA-SW39C  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|                                |              |             |             |              |             |            |            |            |
|--------------------------------|--------------|-------------|-------------|--------------|-------------|------------|------------|------------|
| Date: <u>7/9/2018</u>          | Color        | pH          | S.C.        | Temp.        | Turbidity   | DO         | Salinity   | ORP        |
| Time: <u>0950</u>              | (Visual)     | (S.U.)      | (mS/cm)     | (°C)         | (NTU)       | (mg/L)     | (ppt)      | mV         |
| Depth: <u>1 ft below water</u> | <u>clear</u> | <u>7.88</u> | <u>2.30</u> | <u>27.23</u> | <u>9.09</u> | <u>5.4</u> | <u>1.2</u> | <u>167</u> |
| Method: <u>Grab</u>            |              |             |             |              |             |            |            |            |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
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## OBSERVATIONS / NOTES:

Water depth 1.5 meters

## MAP:



## Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW39D -070918  
 Sample Location: MSA-SW39D  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|                                |              |             |            |              |             |            |            |            |
|--------------------------------|--------------|-------------|------------|--------------|-------------|------------|------------|------------|
| Date: <u>7/9/2018</u>          | Color        | pH          | S.C.       | Temp.        | Turbidity   | DO         | Salinity   | ORP        |
| Time: <u>0956</u>              | (Visual)     | (S.U.)      | (mS/cm)    | (°C)         | (NTU)       | (mg/L)     | (ppt)      | mV         |
| Depth: <u>1 ft below water</u> | <u>clear</u> | <u>7.85</u> | <u>2.3</u> | <u>27.19</u> | <u>9.05</u> | <u>5.8</u> | <u>1.2</u> | <u>163</u> |
| Method: <u>Grab</u>            |              |             |            |              |             |            |            |            |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
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## OBSERVATIONS / NOTES:

Water depth 2.1 meters

## MAP:



## Circle if Applicable:

MS/MSD

Duplicate ID No.:

## Signature(s):





Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW40A -070918  
 Sample Location: MSA-SW40A  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

☐ Stream☐ Spring☐ Pond☐ Lake☒ Other: Tidal creek - freshwater☐ QA Sample Type: \_\_\_\_\_

Type of Sample:

☒ Low Concentration☐ High Concentration

## SAMPLING DATA:

|                                |              |             |             |              |              |             |            |            |
|--------------------------------|--------------|-------------|-------------|--------------|--------------|-------------|------------|------------|
| Date: <u>7/9/2018</u>          | Color        | pH          | S.C.        | Temp.        | Turbidity    | DO          | Salinity   | ORP        |
| Time: <u>1215</u>              | (Visual)     | (S.U.)      | (mS/cm)     | (°C)         | (NTU)        | (mg/L)      | (ppt)      | mV         |
| Depth: <u>1 ft below water</u> | <u>clear</u> | <u>8.18</u> | <u>2.20</u> | <u>29.52</u> | <u>13.10</u> | <u>5.92</u> | <u>1.1</u> | <u>162</u> |
| Method: <u>Grab</u>            |              |             |             |              |              |             |            |            |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
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## OBSERVATIONS / NOTES:

Water depth 0.4 meters

## MAP:



## Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):





Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW40B -070918  
 Sample Location: MSA-SW40B  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|                                |              |             |             |              |              |             |            |            |
|--------------------------------|--------------|-------------|-------------|--------------|--------------|-------------|------------|------------|
| Date: <u>7/9/2018</u>          | Color        | pH          | S.C.        | Temp.        | Turbidity    | DO          | Salinity   | ORP        |
| Time: <u>1218</u>              | (Visual)     | (S.U.)      | (mS/cm)     | (°C)         | (NTU)        | (mg/L)      | (ppt)      | mV         |
| Depth: <u>1 ft below water</u> | <u>clear</u> | <u>8.32</u> | <u>2.20</u> | <u>28.82</u> | <u>11.52</u> | <u>7.04</u> | <u>1.1</u> | <u>157</u> |
| Method: <u>Grab</u>            |              |             |             |              |              |             |            |            |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
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## OBSERVATIONS / NOTES:

Water depth 0.9 meters

## MAP:



## Circle if Applicable:

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



Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW40C -070918  
 Sample Location: MSA-SW40C  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1223             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 8.02   | 2.20    | 28.19 | 10.51     | 5.63   | 1.1      | 163 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
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## OBSERVATIONS / NOTES:

Water depth 1.5 meters

## MAP:



## Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW40D -070918  
 Sample Location: MSA-SW40D  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1228             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.86   | 2.20    | 28.04 | 11.38     | 5.50   | 1.1      | 170 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
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## OBSERVATIONS / NOTES:

Water depth 2.1 meters

## MAP:



## Circle if Applicable:

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

## Signature(s):







Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW41B -070918  
 Sample Location: MSA-SW41B  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1127             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.97   | 2.20    | 28.27 | 9.33      | 5.87   | 1.1      | 168 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
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## OBSERVATIONS / NOTES:

Water depth 0.8 meters

## MAP:



## Circle if Applicable:

MS/MSD

Duplicate ID No.:

## Signature(s):







Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW41D -070918  
 Sample Location: MSA-SW41D  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|                                |              |             |             |              |              |             |            |            |
|--------------------------------|--------------|-------------|-------------|--------------|--------------|-------------|------------|------------|
| Date: <u>7/9/2018</u>          | Color        | pH          | S.C.        | Temp.        | Turbidity    | DO          | Salinity   | ORP        |
| Time: <u>1138</u>              | (Visual)     | (S.U.)      | (mS/cm)     | (°C)         | (NTU)        | (mg/L)      | (ppt)      | mV         |
| Depth: <u>1 ft below water</u> | <u>clear</u> | <u>7.86</u> | <u>2.20</u> | <u>27.99</u> | <u>10.09</u> | <u>5.59</u> | <u>1.1</u> | <u>171</u> |
| Method: <u>Grab</u>            |              |             |             |              |              |             |            |            |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
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## OBSERVATIONS / NOTES:

Water depth 2 meters

## MAP:



## Circle if Applicable:

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

Signature(s):



Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW42A -070918  
 Sample Location: MSA-SW42A  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1238             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.93   | 2.20    | 29.13 | 10.97     | 5.54   | 1.1      | 170 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
|                               |                       |                             |           |
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## OBSERVATIONS / NOTES:

Water depth 0.5 meters

## MAP:



## Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW42B -070918  
 Sample Location: MSA-SW42B  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|                                |              |             |             |              |              |             |            |            |
|--------------------------------|--------------|-------------|-------------|--------------|--------------|-------------|------------|------------|
| Date: <u>7/9/2018</u>          | Color        | pH          | S.C.        | Temp.        | Turbidity    | DO          | Salinity   | ORP        |
| Time: <u>1244</u>              | (Visual)     | (S.U.)      | (mS/cm)     | (°C)         | (NTU)        | (mg/L)      | (ppt)      | mV         |
| Depth: <u>1 ft below water</u> | <u>clear</u> | <u>7.98</u> | <u>2.20</u> | <u>28.53</u> | <u>12.02</u> | <u>5.94</u> | <u>1.1</u> | <u>168</u> |
| Method: <u>Grab</u>            |              |             |             |              |              |             |            |            |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
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## OBSERVATIONS / NOTES:

Water depth 0.7 meters

## MAP:



## Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):





Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW42C -070918  
 Sample Location: MSA-SW42C  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1248             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.96   | 2.10    | 28.16 | 12.10     | 6.01   | 1.1      | 170 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
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## OBSERVATIONS / NOTES:

Water depth 1.6 meters

## MAP:



## Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):





Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW42D -070918  
 Sample Location: MSA-SW42D  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1253             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.90   | 2.10    | 28.00 | 10.63     | 5.52   | 1.1      | 171 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
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## OBSERVATIONS / NOTES:

Water depth 1.9 meters

## MAP:



## Circle if Applicable:

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

## Signature(s):





Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW43B -070918  
 Sample Location: MSA-SW43B  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1058             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.95   | 2.20    | 28.30 | 9.42      | 5.70   | 1.1      | 168 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
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## OBSERVATIONS / NOTES:

Water depth 0.9 meters

## MAP:



## Circle if Applicable:

MS/MSD

Duplicate ID No.:

## Signature(s):



Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW43C -070918  
 Sample Location: MSA-SW43C  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1105             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.92   | 2.20    | 28.08 | 9.69      | 5.78   | 1.1      | 168 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
|                               |                       |                             |           |
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## OBSERVATIONS / NOTES:

Water depth 1.6 meters

## MAP:



## Circle if Applicable:

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

## Signature(s):









|                                                                                                                                                                                    |  |                                         |  |  |                  |  |                                                                                                      |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------|--|--|------------------|--|------------------------------------------------------------------------------------------------------|--|--|
| Project Site Name:                                                                                                                                                                 |  | Frog Mortar Creek, Martin State Airport |  |  | Sample ID No.:   |  | MSA-SW44B -070918                                                                                    |  |  |
| Project No.:                                                                                                                                                                       |  | 112IC08424                              |  |  | Sample Location: |  | MSA-SW44B                                                                                            |  |  |
| <input type="checkbox"/> Stream<br><input type="checkbox"/> Spring<br><input type="checkbox"/> Pond<br><input type="checkbox"/> Lake<br><input checked="" type="checkbox"/> Other: |  | Tidal creek - freshwater                |  |  | Sampled By:      |  | J. Mullis                                                                                            |  |  |
|                                                                                                                                                                                    |  |                                         |  |  | C.O.C. No.:      |  |                                                                                                      |  |  |
|                                                                                                                                                                                    |  |                                         |  |  | Type of Sample:  |  | <input checked="" type="checkbox"/> Low Concentration<br><input type="checkbox"/> High Concentration |  |  |
| [X] QA Sample Type:                                                                                                                                                                |  |                                         |  |  |                  |  |                                                                                                      |  |  |

| SAMPLING DATA: |                  |                   |              |                 |               |                    |              |                   |             |
|----------------|------------------|-------------------|--------------|-----------------|---------------|--------------------|--------------|-------------------|-------------|
| Date:          | 7/9/2018         | Color<br>(Visual) | pH<br>(S.U.) | S.C.<br>(mS/cm) | Temp.<br>(°C) | Turbidity<br>(NTU) | DO<br>(mg/L) | Salinity<br>(ppt) | ORP<br>(mV) |
| Time:          | 1032             |                   |              |                 |               |                    |              |                   |             |
| Depth:         | 1 ft below water |                   |              |                 |               |                    |              |                   |             |
| Method:        | Grab             |                   |              |                 |               |                    |              |                   |             |
|                |                  | clear             | 7.87         | 2.30            | 27.82         | 10.35              | 5.66         | 1.2               | 169         |

| SAMPLE COLLECTION INFORMATION: |                       |                             |           |
|--------------------------------|-----------------------|-----------------------------|-----------|
| Analysis                       | Preservative          | Container Requirements      | Collected |
| VOCs + TICs                    | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness    | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium  | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
|                                |                       |                             |           |
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| OBSERVATIONS / NOTES:  | MAP: |
|------------------------|------|
| Water depth 0.7 meters |      |

|                       |                   |                   |
|-----------------------|-------------------|-------------------|
| Circle if Applicable: |                   | Signature(s):<br> |
| MS/MSD                | Duplicate ID No.: |                   |



Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW44C -070918  
 Sample Location: MSA-SW44C  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1036             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.90   | 2.20    | 27.40 | 9.49      | 5.57   | 1.1      | 169 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
|                               |                       |                             |           |
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## OBSERVATIONS / NOTES:

Water depth 1.6 meters

## MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):







Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW45A -070918  
 Sample Location: MSA-SW45A  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1003             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.83   | 2.30    | 27.34 | 11.79     | 5.82   | 1.2      | 160 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
|                               |                       |                             |           |
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## OBSERVATIONS / NOTES:

Water depth 0.4 meters

## MAP:

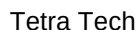


## Circle if Applicable:

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





## Page of

|                    |                                         |
|--------------------|-----------------------------------------|
| Project Site Name: | Frog Mortar Creek, Martin State Airport |
| Project No.:       | 112IC08424                              |

|                  |                   |
|------------------|-------------------|
| Sample ID No.:   | MSA-SW45B -070918 |
| Sample Location: | MSA-SW45B         |
| Sampled By:      | J. Mullis         |
| C.O.C. No.:      |                   |

- ☐ Stream
- ☐ Spring
- ☐ Pond
- ☐ Lake

[X] Other: Tidal creek - freshwater

QA Sample Type: \_\_\_\_\_

Type of Sample:

[x] Low Concentration

☐ High Concentration

|         |                  |                          |                     |                        |                      |                           |                     |                          |                  |
|---------|------------------|--------------------------|---------------------|------------------------|----------------------|---------------------------|---------------------|--------------------------|------------------|
| Date:   | 7/9/2018         | <b>Color</b><br>(Visual) | <b>pH</b><br>(S.U.) | <b>S.C.</b><br>(mS/cm) | <b>Temp.</b><br>(°C) | <b>Turbidity</b><br>(NTU) | <b>DO</b><br>(mg/L) | <b>Salinity</b><br>(ppt) | <b>ORP</b><br>mV |
| Time:   | 1008             |                          |                     |                        |                      |                           |                     |                          |                  |
| Depth:  | 1 ft below water |                          |                     |                        |                      |                           |                     |                          |                  |
| Method: | Grab             |                          |                     |                        |                      |                           |                     |                          |                  |
|         |                  | <b>clear</b>             | <b>7.80</b>         | <b>2.30</b>            | <b>27.44</b>         | <b>8.69</b>               | <b>5.43</b>         | <b>1.2</b>               | <b>165</b>       |

[illegible]

|             |            |
|-------------|------------|
| Water depth | 0.9 meters |
|-------------|------------|

**Circle if Applicable:**

MS/MSD

**Duplicate ID No.:**

**Signature(s):**

*J. L. G. G.*



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## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW45C -070918  
 Sample Location: MSA-SW45C  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 7/9/2018         | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1014             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.88   | 2.30    | 27.49 | 10.43     | 5.52   | 1.2      | 165 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
|                               |                       |                             |           |
|                               |                       |                             |           |
|                               |                       |                             |           |
|                               |                       |                             |           |
|                               |                       |                             |           |
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|                               |                       |                             |           |
|                               |                       |                             |           |
|                               |                       |                             |           |

## OBSERVATIONS / NOTES:

Water depth 1.6 meters

## MAP:



## Circle if Applicable:

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

## Signature(s):



Tetra Tech

## SURFACE WATER SAMPLE LOG SHEET

Page \_\_\_\_ of \_\_\_\_

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC08424

Sample ID No.: MSA-SW45D -070918  
 Sample Location: MSA-SW45D  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

- ☐ Stream  
☐ Spring  
☐ Pond  
☐ Lake

☒ Other: Tidal creek - freshwater  
☐ QA Sample Type: \_\_\_\_\_

Type of Sample:  
☒ Low Concentration  
☐ High Concentration

## SAMPLING DATA:

|                                |              |             |             |              |             |             |            |            |
|--------------------------------|--------------|-------------|-------------|--------------|-------------|-------------|------------|------------|
| Date: <u>7/9/2018</u>          | Color        | pH          | S.C.        | Temp.        | Turbidity   | DO          | Salinity   | ORP        |
| Time: <u>1018</u>              | (Visual)     | (S.U.)      | (mS/cm)     | (°C)         | (NTU)       | (mg/L)      | (ppt)      | mV         |
| Depth: <u>1 ft below water</u> | <u>clear</u> | <u>7.89</u> | <u>2.30</u> | <u>27.46</u> | <u>9.43</u> | <u>5.49</u> | <u>1.2</u> | <u>165</u> |
| Method: <u>Grab</u>            |              |             |             |              |             |             |            |            |

## SAMPLE COLLECTION INFORMATION:

| Analysis                      | Preservative          | Container Requirements      | Collected |
|-------------------------------|-----------------------|-----------------------------|-----------|
| VOCs + TICs                   | HCL pH<2              | 3 - 40 mL glass vials       | Yes       |
| Dissolved metals + Hardness   | HNO <sub>3</sub> pH<2 | 1 - 500 mL plastic filtered | Yes       |
| Dissolved Hexavalent chromium | cr6 buffer            | 1 - 250 mL plastic filtered | Yes       |
|                               |                       |                             |           |
|                               |                       |                             |           |
|                               |                       |                             |           |
|                               |                       |                             |           |
|                               |                       |                             |           |
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|                               |                       |                             |           |
|                               |                       |                             |           |
|                               |                       |                             |           |
|                               |                       |                             |           |

## OBSERVATIONS / NOTES:

Water depth 2.2 meters

## MAP:



## Circle if Applicable:

MS/MSD

Duplicate ID No.:

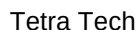
Signature(s):











## Page of

Project Site Name:

Frog Mortar Creek, Martin State Airport

Project No.:

112IC08424

Stream

Spring

Pond

Lake

[X]

Other:

QA Sample Type:

Tidal creek - freshwater

Sample ID No.:

MSA-SW48A -070918

Sample Location:

MSA-SW48A

Sampled By:

J. Mullis

C.O.C. No.:

Type of Sample:

[x] Low Concentration

High Concentration

SAMPLING DATA:

|         |                  |                   |              |                 |               |                    |              |                   |           |
|---------|------------------|-------------------|--------------|-----------------|---------------|--------------------|--------------|-------------------|-----------|
| Date:   | 7/9/2018         | Color<br>(Visual) | pH<br>(S.U.) | S.C.<br>(mS/cm) | Temp.<br>(°C) | Turbidity<br>(NTU) | DO<br>(mg/L) | Salinity<br>(ppt) | ORP<br>mV |
| Time:   | 1143             | clear             | 7.85         | 2.10            | 28.42         | 11.94              | 5.88         | 1.1               | 171       |
| Depth:  | 1 ft below water |                   |              |                 |               |                    |              |                   |           |
| Method: | Grab             |                   |              |                 |               |                    |              |                   |           |

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth                 0.6 meters

MATCHMAP

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



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## **APPENDIX B—DATA-VALIDATION REPORTS**



**TO:** M. MARTIN **DATE:** AUGUST 24, 2018  
**FROM:** MICHELLE L. WOEBER **COPIES:** DV FILE  
**SUBJECT:** ORGANIC & INORGANIC DATA VALIDATION – VOC/DISSOLVED METALS/  
HARDNESS  
LOCKHEED MARTIN CORPORATION (LMC) – MARTIN STATE AIRPORT (MSA)  
FROG MORTAR CREEK SURFACE WATER SAMPLING  
SDG 240-98276-1

**SAMPLES:** 45/Aqueous/VOC

|                  |                  |                  |
|------------------|------------------|------------------|
| EL-SW01A-070918  | EL-SW01B-070918  | EL-SW01C-070918  |
| EL-SW01D-070918  | MSA-SW37A-070918 | MSA-SW37B-070918 |
| MSA-SW37C-070918 | MSA-SW37D-070918 | MSA-SW38A-070918 |
| MSA-SW38B-070918 | MSA-SW38C-070918 | MSA-SW38D-070918 |
| MSA-SW39A-070918 | MSA-SW39B-070918 | MSA-SW39C-070918 |
| MSA-SW39D-070918 | MSA-SW40A-070918 | MSA-SW40B-070918 |
| MSA-SW40C-070918 | MSA-SW40D-070918 | MSA-SW41A-070918 |
| MSA-SW41B-070918 | MSA-SW41C-070918 | MSA-SW41D-070918 |
| MSA-SW42A-070918 | MSA-SW42B-070918 | MSA-SW42C-070918 |
| MSA-SW42D-070918 | MSA-SW43A-070918 | MSA-SW43B-070918 |
| MSA-SW43C-070918 | MSA-SW43D-070918 | MSA-SW44A-070918 |
| MSA-SW44B-070918 | MSA-SW44C-070918 | MSA-SW44D-070918 |
| MSA-SW45A-070918 | MSA-SW45B-070918 | MSA-SW45C-070918 |
| MSA-SW45D-070918 | MSA-SW46A-070918 | MSA-SW47A-070918 |
| MSA-SW48A-070918 | MSA-SW49A-070918 | TB-070918        |

36/Aqueous/Dissolved Metals/Hardness

|                  |                  |                  |
|------------------|------------------|------------------|
| MSA-SW37A-070918 | MSA-SW37B-070918 | MSA-SW37C-070918 |
| MSA-SW37D-070918 | MSA-SW38A-070918 | MSA-SW38B-070918 |
| MSA-SW38C-070918 | MSA-SW38D-070918 | MSA-SW39A-070918 |
| MSA-SW39B-070918 | MSA-SW39C-070918 | MSA-SW39D-070918 |
| MSA-SW40A-070918 | MSA-SW40B-070918 | MSA-SW40C-070918 |
| MSA-SW40D-070918 | MSA-SW41A-070918 | MSA-SW41B-070918 |
| MSA-SW41C-070918 | MSA-SW41D-070918 | MSA-SW42A-070918 |
| MSA-SW42B-070918 | MSA-SW42C-070918 | MSA-SW42D-070918 |
| MSA-SW43A-070918 | MSA-SW43B-070918 | MSA-SW43C-070918 |
| MSA-SW43D-070918 | MSA-SW44A-070918 | MSA-SW44B-070918 |
| MSA-SW44C-070918 | MSA-SW44D-070918 | MSA-SW45A-070918 |
| MSA-SW45B-070918 | MSA-SW45C-070918 | MSA-SW45D-070918 |

#### Overview

The sample set for LMC-MSA Frog Mortar Creek, SDG 240-98276-1 consisted of forty-four (44) aqueous environmental samples and one (1) trip blank. All forty-five (45) aqueous samples were analyzed for Volatile Organic Compounds (VOC). Thirty-six (36) aqueous samples were analyzed for dissolved metals and hardness. No field duplicate sample pair was included in this SDG.

The samples were collected by Tetra Tech, Inc. on July 9, 2018 and analyzed by TestAmerica, Inc. All analyses were conducted in accordance with SW-846 Methods 8260C, 6020, 7470A, and Standard Methods SM 2340B analytical and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters: data completeness, holding times, GC/MS tuning, ICP/MS tuning, initial/continuing calibrations, laboratory preparation/method blanks, surrogate spike recoveries, laboratory control sample results, matrix spike/matrix spike duplicate results, internal standard results, ICP serial dilution results, chromatographic resolution, compound identification, tentatively identified compounds, compound/analyte quantitation, and detection limits. Areas of concern are listed below.

Major

- As stated in the laboratory case narrative, 2-chloroethyl vinyl ether cannot be reliably recovered in an acid preserved samples. All samples in this SDG were acid preserved, therefore, the non-detected results reported for 2-chloroethyl vinyl ether were qualified as rejected, (UR).

Minor

- The VOC initial calibration performed on instrument A3UX16 on 07/06/2018 had a Percent Relative Standard Deviation (%RSD) for hexachlorobutadiene which exceeded the 20% quality control limit. Samples associated with analytical batches #240-240-336777, 240-336990, 240-33721, 240-337453 were affected. The non-detected results reported for hexachlorobutadiene in the affected samples were qualified as estimated, (UJ).
- The VOC continuing calibration performed on instrument A3UX16 on 07/18/2018 @ 09:14 had Percent Differences (%Ds) for vinyl chloride, bromomethane, 1,1-dichloroethene, acetone, tert-butyl alcohol, benzene, 4-methyl-2-pentanone, and hexachlorobutadiene which exceeded the 20% quality control limit. Samples MSA-SW38B-070918, MSA-SW38C-070918, MSA-SW38D-070918, and MSA-SW39A-070918 were affected. The non-detected results reported for these compounds in the affected samples were qualified as estimated, (UJ).
- The VOC continuing calibration performed on instrument A3UX16 on 07/19/2018 @ 09:43 had a %Ds for hexachlorobutadiene which exceeded the 20% quality control limit. Samples associated with analytical batch #240-336990 were affected. The non-detected results reported for this compound in the affected samples were qualified as estimated, (UJ).
- The VOC continuing calibration performed on instrument A3UX16 on 07/20/2018 @ 11:07 had %Ds for 1,1-dichloroethene, acetone, tert-butyl alcohol, vinyl acetate, 4-methyl-2-pentanone, and hexachlorobutadiene which exceeded the 20% quality control limit. Samples associated with analytical batch #240-337214 were affected. The non-detected results reported for these compounds in the affected samples were qualified as estimated, (UJ).
- The VOC continuing calibration performed on instrument A3UX16 on 07/23/2018 @ 09:29 had %Ds for vinyl chloride, 1,1-dichloroethene, carbon disulfide, 2,2-dichloropropane, tert-butylbenzene, n-butylbenzene, hexachlorobutadiene, naphthalene, and a Percent Drift (%Drift) for 1,2,3-trichlorobenzene which exceeded the 20% quality control limit. Samples associated with analytical batch #240-337453 were affected. The non-detected results reported for these compounds in the affected samples were qualified as estimated, (UJ).



TO: M. MARTIN  
SDG: 240-98276-1

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- 
- A Tentatively Identified Compound (TIC) search was performed for the compound chlorodifluoromethane. The laboratory did not detect this compound in the samples in this SDG. The laboratory assigned a Reporting Limit (RL) of 1 µg/L. Because the GC/MS was not calibrated for this compound, the RL is not considered precise. The non-detected results reported for chlorodifluoromethane were qualified as estimated, (UJ).
- The TIC, unknown, was detected in sample MSA-SW39B-070918 . Because the VOC GC/MS instrument was not calibrated for this compound, the TIC was qualified as presumptively present,(NJ).
- Detected results reported below the RL but above the Method Detection Limit (MDL) were qualified as estimated, (J).

#### Notes

Acetone and tert-butyl alcohol were detected in the trip blank, TB-070918. No action was taken because these compounds were not detected in the environmental samples.

The VOC Laboratory Control Sample (LCS) for cis-1,3-dichloropropene exceeded the upper quality control limit in preparation batch #240-337453. No action was taken because this compound was not detected in the associated samples.

Non-detected results were reported to the MDL.

TO: M. MARTIN  
SDG: 240-98276-1

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### **Executive Summary**

**Laboratory Performance:** VOC continuing calibration %Ds and a %Drift exceeded 20%. Non-detected chlorodifluoromethane results were estimated because a reverse library search was used.

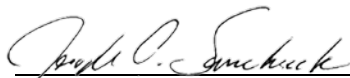
**Other Factors Affecting Data Quality:** 2-Chloroethyl vinyl ether results were rejected because the samples were acid preserved. Acetone and tert-butyl alcohol were detected in the trip blank. A TIC was identified in one sample. Results below the RL were estimated.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Review" (January 2017) and "National Functional Guidelines for Inorganic Review" (January 2017). The text of this report has been formulated to address only those areas affecting data quality.



---

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



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Tetra Tech, Inc.  
Joseph A. Samchuck  
Data Validation Manager

#### Attachments:

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

### Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

|           |                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>U</b>  | The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted detection limit.                                                                                                                                                                                                                                                               |
| <b>J</b>  | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).                                                                                   |
| <b>J+</b> | The result is an estimated quantity, but the result may be biased high.                                                                                                                                                                                                                                                                                                                         |
| <b>J-</b> | The result is an estimated quantity, but the result may be biased low.                                                                                                                                                                                                                                                                                                                          |
| <b>UJ</b> | The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.                                                                                                                                                                                                                                                             |
| <b>NJ</b> | The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.                                                                                                                                                                                                                                    |
| <b>R</b>  | The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.                                                                                                                                                                                                                   |
| <b>UR</b> | The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.                                                                                                                                                                                                                |
| <b>X</b>  | The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended. |

## **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 ( $< 2 \times$  IDL for inorganics and  $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors  $>40\%$  for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient  $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids  $<30\%$
- Z = Uncertainty at 2 standard deviations is greater than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed
- Z3 = Tentatively Identified Compound aldol condensate
- Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
- Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC



|                                                                                                |            |                 |     |      |                 |     |      |                 |     |      |                 |     |      |
|------------------------------------------------------------------------------------------------|------------|-----------------|-----|------|-----------------|-----|------|-----------------|-----|------|-----------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | EL-SW01A-070918 |     |      | EL-SW01B-070918 |     |      | EL-SW01C-070918 |     |      | EL-SW01D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-37    |     |      | 240-98276-38    |     |      | 240-98276-39    |     |      | 240-98276-40    |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018        |     |      | 7/9/2018        |     |      | 7/9/2018        |     |      | 7/9/2018        |     |      |
|                                                                                                | QC_TYPE    | NM              |     |      | NM              |     |      | NM              |     |      | NM              |     |      |
|                                                                                                | UNITS      | UG/L            |     |      | UG/L            |     |      | UG/L            |     |      | UG/L            |     |      |
|                                                                                                | PCT_SOLIDS | 0.0             |     |      | 0.0             |     |      | 0.0             |     |      | 0.0             |     |      |
|                                                                                                | DUP_OF     |                 |     |      |                 |     |      |                 |     |      |                 |     |      |
| PARAMETER                                                                                      |            | RESULT          | VQL | QLCD | RESULT          | VQL | QLCD | RESULT          | VQL | QLCD | RESULT          | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE                                                                      |            | 0.14            | U   |      | 0.14            | U   |      | 0.14            | U   |      | 0.14            | U   |      |
| 1,1,1-TRICHLOROETHANE                                                                          |            | 0.24            | U   |      | 0.24            | U   |      | 0.24            | U   |      | 0.24            | U   |      |
| 1,1,2,2-TETRACHLOROETHANE                                                                      |            | 0.13            | U   |      | 0.13            | U   |      | 0.13            | U   |      | 0.13            | U   |      |
| 1,1,2-TRICHLOROTRIFLUOROETHANE                                                                 |            | 0.41            | U   |      | 0.41            | U   |      | 0.41            | U   |      | 0.41            | U   |      |
| 1,1-DICHLOROETHANE                                                                             |            | 0.17            | U   |      | 0.17            | U   |      | 0.17            | U   |      | 0.17            | U   |      |
| 1,1-DICHLOROETHENE                                                                             |            | 0.19            | UJ  | C    | 0.19            | UJ  | C    | 0.19            | UJ  | C    | 0.19            | UJ  | C    |
| 1,1-DICHLOROPROPENE                                                                            |            | 0.14            | U   |      | 0.14            | U   |      | 0.14            | U   |      | 0.14            | U   |      |
| 1,2,3-TRICHLOROBENZENE                                                                         |            | 0.54            | U   |      | 0.54            | U   |      | 0.54            | U   |      | 0.54            | UJ  | C    |
| 1,2,3-TRICHLOROPROPANE                                                                         |            | 0.24            | U   |      | 0.24            | U   |      | 0.24            | U   |      | 0.24            | U   |      |
| 1,2,3-TRIMETHYLBENZENE                                                                         |            | 0.14            | U   |      | 0.14            | U   |      | 0.14            | U   |      | 0.14            | U   |      |
| 1,2,4-TRICHLOROBENZENE                                                                         |            | 0.26            | U   |      | 0.26            | U   |      | 0.26            | U   |      | 0.26            | U   |      |
| 1,2,4-TRIMETHYLBENZENE                                                                         |            | 0.07            | U   |      | 0.07            | U   |      | 0.07            | U   |      | 0.07            | U   |      |
| 1,2-DIBROMO-3-CHLOROPROPANE                                                                    |            | 0.91            | U   |      | 0.91            | U   |      | 0.91            | U   |      | 0.91            | U   |      |
| 1,2-DIBROMOETHANE                                                                              |            | 0.12            | U   |      | 0.12            | U   |      | 0.12            | U   |      | 0.12            | U   |      |
| 1,2-DICHLOROBENZENE                                                                            |            | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      |
| 1,2-DICHLOROETHANE                                                                             |            | 0.21            | U   |      | 0.21            | U   |      | 0.21            | U   |      | 0.21            | U   |      |
| 1,2-DICHLOROPROPANE                                                                            |            | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      |
| 1,3-DICHLOROBENZENE                                                                            |            | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      |
| 1,3-DICHLOROPROPANE                                                                            |            | 0.21            | U   |      | 0.21            | U   |      | 0.21            | U   |      | 0.21            | U   |      |
| 1,4-DICHLOROBENZENE                                                                            |            | 0.16            | U   |      | 0.16            | U   |      | 0.16            | U   |      | 0.16            | U   |      |
| 2,2-DICHLOROPROPANE                                                                            |            | 0.31            | U   |      | 0.31            | U   |      | 0.31            | U   |      | 0.31            | UJ  | C    |
| 2-BUTANONE                                                                                     |            | 1.2             | U   |      | 1.2             | J   | P    | 1.5             | J   | P    | 1.2             | U   |      |
| 2-CHLOROETHYL VINYL ETHER                                                                      |            | 0.26            | UR  | M    | 0.26            | UR  | M    | 0.26            | UR  | M    | 0.26            | UR  | M    |
| 2-CHLOROTOLUENE                                                                                |            | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      |
| 2-HEXANONE                                                                                     |            | 0.54            | U   |      | 0.54            | U   |      | 0.54            | U   |      | 0.54            | U   |      |
| 4-CHLOROTOLUENE                                                                                |            | 0.09            | U   |      | 0.09            | U   |      | 0.09            | U   |      | 0.09            | U   |      |
| 4-ISOPROPYLTOLUENE                                                                             |            | 0.13            | U   |      | 0.13            | U   |      | 0.13            | U   |      | 0.13            | U   |      |
| 4-METHYL-2-PENTANONE                                                                           |            | 0.42            | UJ  | C    | 0.42            | UJ  | C    | 0.42            | UJ  | C    | 0.42            | U   |      |
| ACETONE                                                                                        |            | 5.4             | UJ  | C    | 5.4             | UJ  | C    | 5.4             | UJ  | C    | 5.4             | U   |      |
| BENZENE                                                                                        |            | 0.13            | U   |      | 0.13            | U   |      | 0.13            | U   |      | 0.13            | U   |      |
| BROMOBENZENE                                                                                   |            | 0.12            | U   |      | 0.12            | U   |      | 0.12            | U   |      | 0.12            | U   |      |
| BROMOCHLOROMETHANE                                                                             |            | 0.14            | U   |      | 0.14            | U   |      | 0.14            | U   |      | 0.14            | U   |      |
| BROMODICHLOROMETHANE                                                                           |            | 0.17            | U   |      | 0.17            | U   |      | 0.17            | U   |      | 0.17            | U   |      |
| BROMOFORM                                                                                      |            | 0.76            | U   |      | 0.76            | U   |      | 0.76            | U   |      | 0.76            | U   |      |
| BROMOMETHANE                                                                                   |            | 0.42            | U   |      | 0.42            | U   |      | 0.42            | U   |      | 0.42            | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW37A-070918 |     |      | MSA-SW37B-070918 |     |      | MSA-SW37C-070918 |     |      | MSA-SW37D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-1      |     |      | 240-98276-2      |     |      | 240-98276-3      |     |      | 240-98276-4      |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE                                                                      |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,1,1-TRICHLOROETHANE                                                                          |            | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      |
| 1,1,2,2-TETRACHLOROETHANE                                                                      |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| 1,1,2-TRICHLOROTRIFLUOROETHANE                                                                 |            | 0.41             | U   |      | 0.41             | U   |      | 0.41             | U   |      | 0.41             | U   |      |
| 1,1-DICHLOROETHANE                                                                             |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| 1,1-DICHLOROETHENE                                                                             |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| 1,1-DICHLOROPROPENE                                                                            |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,2,3-TRICHLOROBENZENE                                                                         |            | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      |
| 1,2,3-TRICHLOROPROPANE                                                                         |            | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      |
| 1,2,3-TRIMETHYLBENZENE                                                                         |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,2,4-TRICHLOROBENZENE                                                                         |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| 1,2,4-TRIMETHYLBENZENE                                                                         |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| 1,2-DIBROMO-3-CHLOROPROPANE                                                                    |            | 0.91             | U   |      | 0.91             | U   |      | 0.91             | U   |      | 0.91             | U   |      |
| 1,2-DIBROMOETHANE                                                                              |            | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      |
| 1,2-DICHLOROBENZENE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,2-DICHLOROETHANE                                                                             |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| 1,2-DICHLOROPROPANE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,3-DICHLOROBENZENE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,3-DICHLOROPROPANE                                                                            |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| 1,4-DICHLOROBENZENE                                                                            |            | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      |
| 2,2-DICHLOROPROPANE                                                                            |            | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      |
| 2-BUTANONE                                                                                     |            | 1.2              | U   |      | 1.2              | U   |      | 1.2              | U   |      | 1.2              | U   |      |
| 2-CHLOROETHYL VINYL ETHER                                                                      |            | 0.26             | UR  | M    | 0.26             | UR  | M    | 0.26             | UR  | M    | 0.26             | UR  | M    |
| 2-CHLOROTOLUENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 2-HEXANONE                                                                                     |            | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      |
| 4-CHLOROTOLUENE                                                                                |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| 4-ISOPROPYLTOLUENE                                                                             |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| 4-METHYL-2-PENTANONE                                                                           |            | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      |
| ACETONE                                                                                        |            | 5.4              | U   |      | 5.4              | U   |      | 5.4              | U   |      | 5.4              | U   |      |
| BENZENE                                                                                        |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| BROMOBENZENE                                                                                   |            | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      |
| BROMOCHLOROMETHANE                                                                             |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| BROMODICHLOROMETHANE                                                                           |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| BROMOFORM                                                                                      |            | 0.76             | U   |      | 0.76             | U   |      | 0.76             | U   |      | 0.76             | U   |      |
| BROMOMETHANE                                                                                   |            | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW38A-070918 |     |      | MSA-SW38B-070918 |     |      | MSA-SW38C-070918 |     |      | MSA-SW38D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-5      |     |      | 240-98276-6      |     |      | 240-98276-7      |     |      | 240-98276-8      |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE                                                                      |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,1,1-TRICHLOROETHANE                                                                          |            | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      |
| 1,1,2,2-TETRACHLOROETHANE                                                                      |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| 1,1,2-TRICHLOROTRIFLUOROETHANE                                                                 |            | 0.41             | U   |      | 0.41             | U   |      | 0.41             | U   |      | 0.41             | U   |      |
| 1,1-DICHLOROETHANE                                                                             |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| 1,1-DICHLOROETHENE                                                                             |            | 0.19             | U   |      | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    |
| 1,1-DICHLOROPROPENE                                                                            |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,2,3-TRICHLOROBENZENE                                                                         |            | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      |
| 1,2,3-TRICHLOROPROPANE                                                                         |            | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      |
| 1,2,3-TRIMETHYLBENZENE                                                                         |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,2,4-TRICHLOROBENZENE                                                                         |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| 1,2,4-TRIMETHYLBENZENE                                                                         |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| 1,2-DIBROMO-3-CHLOROPROPANE                                                                    |            | 0.91             | U   |      | 0.91             | U   |      | 0.91             | U   |      | 0.91             | U   |      |
| 1,2-DIBROMOETHANE                                                                              |            | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      |
| 1,2-DICHLOROBENZENE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,2-DICHLOROETHANE                                                                             |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| 1,2-DICHLOROPROPANE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,3-DICHLOROBENZENE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,3-DICHLOROPROPANE                                                                            |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| 1,4-DICHLOROBENZENE                                                                            |            | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      |
| 2,2-DICHLOROPROPANE                                                                            |            | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      |
| 2-BUTANONE                                                                                     |            | 1.2              | U   |      | 1.2              | U   |      | 1.2              | U   |      | 1.2              | U   |      |
| 2-CHLOROETHYL VINYL ETHER                                                                      |            | 0.26             | UR  | M    | 0.26             | UR  | M    | 0.26             | UR  | M    | 0.26             | UR  | M    |
| 2-CHLOROTOLUENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 2-HEXANONE                                                                                     |            | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      |
| 4-CHLOROTOLUENE                                                                                |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| 4-ISOPROPYLTOLUENE                                                                             |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| 4-METHYL-2-PENTANONE                                                                           |            | 0.42             | U   |      | 0.42             | UJ  | C    | 0.42             | UJ  | C    | 0.42             | UJ  | C    |
| ACETONE                                                                                        |            | 5.4              | U   |      | 5.4              | UJ  | C    | 5.4              | UJ  | C    | 5.4              | UJ  | C    |
| BENZENE                                                                                        |            | 0.13             | U   |      | 0.13             | UJ  | C    | 0.13             | UJ  | C    | 0.13             | UJ  | C    |
| BROMOBENZENE                                                                                   |            | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      |
| BROMOCHLOROMETHANE                                                                             |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| BROMODICHLOROMETHANE                                                                           |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| BROMOFORM                                                                                      |            | 0.76             | U   |      | 0.76             | U   |      | 0.76             | U   |      | 0.76             | U   |      |
| BROMOMETHANE                                                                                   |            | 0.42             | U   |      | 0.42             | UJ  | C    | 0.42             | UJ  | C    | 0.42             | UJ  | C    |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW39A-070918 |     |      | MSA-SW39B-070918 |     |      | MSA-SW39C-070918 |     |      | MSA-SW39D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-9      |     |      | 240-98276-10     |     |      | 240-98276-11     |     |      | 240-98276-12     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE                                                                      |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,1,1-TRICHLOROETHANE                                                                          |            | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      |
| 1,1,2,2-TETRACHLOROETHANE                                                                      |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| 1,1,2-TRICHLOROTRIFLUOROETHANE                                                                 |            | 0.41             | U   |      | 0.41             | U   |      | 0.41             | U   |      | 0.41             | U   |      |
| 1,1-DICHLOROETHANE                                                                             |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| 1,1-DICHLOROETHENE                                                                             |            | 0.19             | UJ  | C    | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| 1,1-DICHLOROPROPENE                                                                            |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,2,3-TRICHLOROBENZENE                                                                         |            | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      |
| 1,2,3-TRICHLOROPROPANE                                                                         |            | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      |
| 1,2,3-TRIMETHYLBENZENE                                                                         |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,2,4-TRICHLOROBENZENE                                                                         |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| 1,2,4-TRIMETHYLBENZENE                                                                         |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| 1,2-DIBROMO-3-CHLOROPROPANE                                                                    |            | 0.91             | U   |      | 0.91             | U   |      | 0.91             | U   |      | 0.91             | U   |      |
| 1,2-DIBROMOETHANE                                                                              |            | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      |
| 1,2-DICHLOROBENZENE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,2-DICHLOROETHANE                                                                             |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| 1,2-DICHLOROPROPANE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,3-DICHLOROBENZENE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,3-DICHLOROPROPANE                                                                            |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| 1,4-DICHLOROBENZENE                                                                            |            | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      |
| 2,2-DICHLOROPROPANE                                                                            |            | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      |
| 2-BUTANONE                                                                                     |            | 1.3              | J   | P    | 1.2              | U   |      | 1.2              | U   |      | 1.2              | U   |      |
| 2-CHLOROETHYL VINYL ETHER                                                                      |            | 0.26             | UR  | M    | 0.26             | UR  | M    | 0.26             | UR  | M    | 0.26             | UR  | M    |
| 2-CHLOROTOLUENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 2-HEXANONE                                                                                     |            | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      |
| 4-CHLOROTOLUENE                                                                                |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| 4-ISOPROPYLTOLUENE                                                                             |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| 4-METHYL-2-PENTANONE                                                                           |            | 0.42             | UJ  | C    | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      |
| ACETONE                                                                                        |            | 5.4              | UJ  | C    | 5.4              | U   |      | 5.4              | U   |      | 5.4              | U   |      |
| BENZENE                                                                                        |            | 0.13             | UJ  | C    | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| BROMOBENZENE                                                                                   |            | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      |
| BROMOCHLOROMETHANE                                                                             |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| BROMODICHLOROMETHANE                                                                           |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| BROMOFORM                                                                                      |            | 0.76             | U   |      | 0.76             | U   |      | 0.76             | U   |      | 0.76             | U   |      |
| BROMOMETHANE                                                                                   |            | 0.42             | UJ  | C    | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW40A-070918 |     |      | MSA-SW40B-070918 |     |      | MSA-SW40C-070918 |     |      | MSA-SW40D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-13     |     |      | 240-98276-14     |     |      | 240-98276-15     |     |      | 240-98276-16     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE                                                                      |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| 1,1,1-TRICHLOROETHANE                                                                          |            | 0.24 U           |     |      | 0.24 U           |     |      | 0.24 U           |     |      | 0.24 U           |     |      |
| 1,1,2,2-TETRACHLOROETHANE                                                                      |            | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      |
| 1,1,2-TRICHLOROTRIFLUOROETHANE                                                                 |            | 0.41 U           |     |      | 0.41 U           |     |      | 0.41 U           |     |      | 0.41 U           |     |      |
| 1,1-DICHLOROETHANE                                                                             |            | 0.17 U           |     |      | 0.17 U           |     |      | 0.17 U           |     |      | 0.17 U           |     |      |
| 1,1-DICHLOROETHENE                                                                             |            | 0.19 U           |     |      | 0.19 U           |     |      | 0.19 U           |     |      | 0.19 U           |     |      |
| 1,1-DICHLOROPROPENE                                                                            |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| 1,2,3-TRICHLOROBENZENE                                                                         |            | 0.54 U           |     |      | 0.54 U           |     |      | 0.54 U           |     |      | 0.54 U           |     |      |
| 1,2,3-TRICHLOROPROPANE                                                                         |            | 0.24 U           |     |      | 0.24 U           |     |      | 0.24 U           |     |      | 0.24 U           |     |      |
| 1,2,3-TRIMETHYLBENZENE                                                                         |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| 1,2,4-TRICHLOROBENZENE                                                                         |            | 0.26 U           |     |      | 0.26 U           |     |      | 0.26 U           |     |      | 0.26 U           |     |      |
| 1,2,4-TRIMETHYLBENZENE                                                                         |            | 0.07 U           |     |      | 0.07 U           |     |      | 0.07 U           |     |      | 0.07 U           |     |      |
| 1,2-DIBROMO-3-CHLOROPROPANE                                                                    |            | 0.91 U           |     |      | 0.91 U           |     |      | 0.91 U           |     |      | 0.91 U           |     |      |
| 1,2-DIBROMOETHANE                                                                              |            | 0.12 U           |     |      | 0.12 U           |     |      | 0.12 U           |     |      | 0.12 U           |     |      |
| 1,2-DICHLOROBENZENE                                                                            |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| 1,2-DICHLOROETHANE                                                                             |            | 0.21 U           |     |      | 0.21 U           |     |      | 0.21 U           |     |      | 0.21 U           |     |      |
| 1,2-DICHLOROPROPANE                                                                            |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| 1,3-DICHLOROBENZENE                                                                            |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| 1,3-DICHLOROPROPANE                                                                            |            | 0.21 U           |     |      | 0.21 U           |     |      | 0.21 U           |     |      | 0.21 U           |     |      |
| 1,4-DICHLOROBENZENE                                                                            |            | 0.16 U           |     |      | 0.16 U           |     |      | 0.16 U           |     |      | 0.16 U           |     |      |
| 2,2-DICHLOROPROPANE                                                                            |            | 0.31 U           |     |      | 0.31 U           |     |      | 0.31 U           |     |      | 0.31 U           |     |      |
| 2-BUTANONE                                                                                     |            | 1.2 U            |     |      | 1.2 U            |     |      | 1.2 U            |     |      | 1.2 U            |     |      |
| 2-CHLOROETHYL VINYL ETHER                                                                      |            | 0.26 UR          | M   |      | 0.26 UR          | M   |      | 0.26 UR          | M   |      | 0.26 UR          | M   |      |
| 2-CHLOROTOLUENE                                                                                |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| 2-HEXANONE                                                                                     |            | 0.54 U           |     |      | 0.54 U           |     |      | 0.54 U           |     |      | 0.54 U           |     |      |
| 4-CHLOROTOLUENE                                                                                |            | 0.09 U           |     |      | 0.09 U           |     |      | 0.09 U           |     |      | 0.09 U           |     |      |
| 4-ISOPROPYLTOLUENE                                                                             |            | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      |
| 4-METHYL-2-PENTANONE                                                                           |            | 0.42 U           |     |      | 0.42 U           |     |      | 0.42 U           |     |      | 0.42 U           |     |      |
| ACETONE                                                                                        |            | 5.4 U            |     |      | 5.4 U            |     |      | 5.4 U            |     |      | 5.4 U            |     |      |
| BENZENE                                                                                        |            | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      |
| BROMOBENZENE                                                                                   |            | 0.12 U           |     |      | 0.12 U           |     |      | 0.12 U           |     |      | 0.12 U           |     |      |
| BROMOCHLOROMETHANE                                                                             |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| BROMODICHLOROMETHANE                                                                           |            | 0.17 U           |     |      | 0.17 U           |     |      | 0.17 U           |     |      | 0.17 U           |     |      |
| BROMOFORM                                                                                      |            | 0.76 U           |     |      | 0.76 U           |     |      | 0.76 U           |     |      | 0.76 U           |     |      |
| BROMOMETHANE                                                                                   |            | 0.42 U           |     |      | 0.42 U           |     |      | 0.42 U           |     |      | 0.42 U           |     |      |



|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW41A-070918 |     |      | MSA-SW41B-070918 |     |      | MSA-SW41C-070918 |     |      | MSA-SW41D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-17     |     |      | 240-98276-18     |     |      | 240-98276-19     |     |      | 240-98276-20     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE                                                                      |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| 1,1,1-TRICHLOROETHANE                                                                          |            | 0.24 U           |     |      | 0.24 U           |     |      | 0.24 U           |     |      | 0.24 U           |     |      |
| 1,1,2,2-TETRACHLOROETHANE                                                                      |            | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      |
| 1,1,2-TRICHLOROTRIFLUOROETHANE                                                                 |            | 0.41 U           |     |      | 0.41 U           |     |      | 0.41 U           |     |      | 0.41 U           |     |      |
| 1,1-DICHLOROETHANE                                                                             |            | 0.17 U           |     |      | 0.17 U           |     |      | 0.17 U           |     |      | 0.17 U           |     |      |
| 1,1-DICHLOROETHENE                                                                             |            | 0.19 U           |     |      | 0.19 U           |     |      | 0.19 U           |     |      | 0.19 U           |     |      |
| 1,1-DICHLOROPROPENE                                                                            |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| 1,2,3-TRICHLOROBENZENE                                                                         |            | 0.54 U           |     |      | 0.54 U           |     |      | 0.54 U           |     |      | 0.54 U           |     |      |
| 1,2,3-TRICHLOROPROPANE                                                                         |            | 0.24 U           |     |      | 0.24 U           |     |      | 0.24 U           |     |      | 0.24 U           |     |      |
| 1,2,3-TRIMETHYLBENZENE                                                                         |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| 1,2,4-TRICHLOROBENZENE                                                                         |            | 0.26 U           |     |      | 0.26 U           |     |      | 0.26 U           |     |      | 0.26 U           |     |      |
| 1,2,4-TRIMETHYLBENZENE                                                                         |            | 0.07 U           |     |      | 0.07 U           |     |      | 0.07 U           |     |      | 0.07 U           |     |      |
| 1,2-DIBROMO-3-CHLOROPROPANE                                                                    |            | 0.91 U           |     |      | 0.91 U           |     |      | 0.91 U           |     |      | 0.91 U           |     |      |
| 1,2-DIBROMOETHANE                                                                              |            | 0.12 U           |     |      | 0.12 U           |     |      | 0.12 U           |     |      | 0.12 U           |     |      |
| 1,2-DICHLOROBENZENE                                                                            |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| 1,2-DICHLOROETHANE                                                                             |            | 0.21 U           |     |      | 0.21 U           |     |      | 0.21 U           |     |      | 0.21 U           |     |      |
| 1,2-DICHLOROPROPANE                                                                            |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| 1,3-DICHLOROBENZENE                                                                            |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| 1,3-DICHLOROPROPANE                                                                            |            | 0.21 U           |     |      | 0.21 U           |     |      | 0.21 U           |     |      | 0.21 U           |     |      |
| 1,4-DICHLOROBENZENE                                                                            |            | 0.16 U           |     |      | 0.16 U           |     |      | 0.16 U           |     |      | 0.16 U           |     |      |
| 2,2-DICHLOROPROPANE                                                                            |            | 0.31 U           |     |      | 0.31 U           |     |      | 0.31 U           |     |      | 0.31 U           |     |      |
| 2-BUTANONE                                                                                     |            | 1.2 U            |     |      | 1.2 U            |     |      | 1.2 U            |     |      | 1.2 U            |     |      |
| 2-CHLOROETHYL VINYL ETHER                                                                      |            | 0.26 UR          | M   |      | 0.26 UR          | M   |      | 0.26 UR          | M   |      | 0.26 UR          | M   |      |
| 2-CHLOROTOLUENE                                                                                |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| 2-HEXANONE                                                                                     |            | 0.54 U           |     |      | 0.54 U           |     |      | 0.54 U           |     |      | 0.54 U           |     |      |
| 4-CHLOROTOLUENE                                                                                |            | 0.09 U           |     |      | 0.09 U           |     |      | 0.09 U           |     |      | 0.09 U           |     |      |
| 4-ISOPROPYLTOLUENE                                                                             |            | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      |
| 4-METHYL-2-PENTANONE                                                                           |            | 0.42 U           |     |      | 0.42 U           |     |      | 0.42 U           |     |      | 0.42 U           |     |      |
| ACETONE                                                                                        |            | 5.4 U            |     |      | 5.4 U            |     |      | 5.4 U            |     |      | 5.4 U            |     |      |
| BENZENE                                                                                        |            | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      |
| BROMOBENZENE                                                                                   |            | 0.12 U           |     |      | 0.12 U           |     |      | 0.12 U           |     |      | 0.12 U           |     |      |
| BROMOCHLOROMETHANE                                                                             |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| BROMODICHLOROMETHANE                                                                           |            | 0.17 U           |     |      | 0.17 U           |     |      | 0.17 U           |     |      | 0.17 U           |     |      |
| BROMOFORM                                                                                      |            | 0.76 U           |     |      | 0.76 U           |     |      | 0.76 U           |     |      | 0.76 U           |     |      |
| BROMOMETHANE                                                                                   |            | 0.42 U           |     |      | 0.42 U           |     |      | 0.42 U           |     |      | 0.42 U           |     |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW42A-070918 |     |      | MSA-SW42B-070918 |     |      | MSA-SW42C-070918 |     |      | MSA-SW42D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-21     |     |      | 240-98276-22     |     |      | 240-98276-23     |     |      | 240-98276-24     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE                                                                      |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,1,1-TRICHLOROETHANE                                                                          |            | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      |
| 1,1,2,2-TETRACHLOROETHANE                                                                      |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| 1,1,2-TRICHLOROTRIFLUOROETHANE                                                                 |            | 0.41             | U   |      | 0.41             | U   |      | 0.41             | U   |      | 0.41             | U   |      |
| 1,1-DICHLOROETHANE                                                                             |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| 1,1-DICHLOROETHENE                                                                             |            | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    |
| 1,1-DICHLOROPROPENE                                                                            |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,2,3-TRICHLOROBENZENE                                                                         |            | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      |
| 1,2,3-TRICHLOROPROPANE                                                                         |            | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      |
| 1,2,3-TRIMETHYLBENZENE                                                                         |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,2,4-TRICHLOROBENZENE                                                                         |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| 1,2,4-TRIMETHYLBENZENE                                                                         |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| 1,2-DIBROMO-3-CHLOROPROPANE                                                                    |            | 0.91             | U   |      | 0.91             | U   |      | 0.91             | U   |      | 0.91             | U   |      |
| 1,2-DIBROMOETHANE                                                                              |            | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      |
| 1,2-DICHLOROBENZENE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,2-DICHLOROETHANE                                                                             |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| 1,2-DICHLOROPROPANE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,3-DICHLOROBENZENE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,3-DICHLOROPROPANE                                                                            |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| 1,4-DICHLOROBENZENE                                                                            |            | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      |
| 2,2-DICHLOROPROPANE                                                                            |            | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      |
| 2-BUTANONE                                                                                     |            | 1.2              | U   |      | 1.2              | U   |      | 1.2              | U   |      | 1.2              | U   |      |
| 2-CHLOROETHYL VINYL ETHER                                                                      |            | 0.26             | UR  | M    | 0.26             | UR  | M    | 0.26             | UR  | M    | 0.26             | UR  | M    |
| 2-CHLOROTOLUENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 2-HEXANONE                                                                                     |            | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      |
| 4-CHLOROTOLUENE                                                                                |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| 4-ISOPROPYLTOLUENE                                                                             |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| 4-METHYL-2-PENTANONE                                                                           |            | 0.42             | UJ  | C    | 0.42             | UJ  | C    | 0.42             | UJ  | C    | 0.42             | UJ  | C    |
| ACETONE                                                                                        |            | 5.4              | UJ  | C    | 5.4              | UJ  | C    | 5.4              | UJ  | C    | 5.4              | UJ  | C    |
| BENZENE                                                                                        |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| BROMOBENZENE                                                                                   |            | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      |
| BROMOCHLOROMETHANE                                                                             |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| BROMODICHLOROMETHANE                                                                           |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| BROMOFORM                                                                                      |            | 0.76             | U   |      | 0.76             | U   |      | 0.76             | U   |      | 0.76             | U   |      |
| BROMOMETHANE                                                                                   |            | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW43A-070918 |     |      | MSA-SW43B-070918 |     |      | MSA-SW43C-070918 |     |      | MSA-SW43D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-25     |     |      | 240-98276-26     |     |      | 240-98276-27     |     |      | 240-98276-28     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE                                                                      |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| 1,1,1-TRICHLOROETHANE                                                                          |            | 0.24 U           |     |      | 0.24 U           |     |      | 0.24 U           |     |      | 0.24 U           |     |      |
| 1,1,2,2-TETRACHLOROETHANE                                                                      |            | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      |
| 1,1,2-TRICHLOROTRIFLUOROETHANE                                                                 |            | 0.41 U           |     |      | 0.41 U           |     |      | 0.41 U           |     |      | 0.41 U           |     |      |
| 1,1-DICHLOROETHANE                                                                             |            | 0.17 U           |     |      | 0.17 U           |     |      | 0.17 U           |     |      | 0.17 U           |     |      |
| 1,1-DICHLOROETHENE                                                                             |            | 0.19 UJ          | C   |      | 0.19 UJ          | C   |      | 0.19 UJ          | C   |      | 0.19 UJ          | C   |      |
| 1,1-DICHLOROPROPENE                                                                            |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| 1,2,3-TRICHLOROBENZENE                                                                         |            | 0.54 U           |     |      | 0.54 U           |     |      | 0.54 U           |     |      | 0.54 U           |     |      |
| 1,2,3-TRICHLOROPROPANE                                                                         |            | 0.24 U           |     |      | 0.24 U           |     |      | 0.24 U           |     |      | 0.24 U           |     |      |
| 1,2,3-TRIMETHYLBENZENE                                                                         |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| 1,2,4-TRICHLOROBENZENE                                                                         |            | 0.26 U           |     |      | 0.26 U           |     |      | 0.26 U           |     |      | 0.26 U           |     |      |
| 1,2,4-TRIMETHYLBENZENE                                                                         |            | 0.07 U           |     |      | 0.07 U           |     |      | 0.07 U           |     |      | 0.07 U           |     |      |
| 1,2-DIBROMO-3-CHLOROPROPANE                                                                    |            | 0.91 U           |     |      | 0.91 U           |     |      | 0.91 U           |     |      | 0.91 U           |     |      |
| 1,2-DIBROMOETHANE                                                                              |            | 0.12 U           |     |      | 0.12 U           |     |      | 0.12 U           |     |      | 0.12 U           |     |      |
| 1,2-DICHLOROBENZENE                                                                            |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| 1,2-DICHLOROETHANE                                                                             |            | 0.21 U           |     |      | 0.21 U           |     |      | 0.21 U           |     |      | 0.21 U           |     |      |
| 1,2-DICHLOROPROPANE                                                                            |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| 1,3-DICHLOROBENZENE                                                                            |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| 1,3-DICHLOROPROPANE                                                                            |            | 0.21 U           |     |      | 0.21 U           |     |      | 0.21 U           |     |      | 0.21 U           |     |      |
| 1,4-DICHLOROBENZENE                                                                            |            | 0.16 U           |     |      | 0.16 U           |     |      | 0.16 U           |     |      | 0.16 U           |     |      |
| 2,2-DICHLOROPROPANE                                                                            |            | 0.31 U           |     |      | 0.31 U           |     |      | 0.31 U           |     |      | 0.31 U           |     |      |
| 2-BUTANONE                                                                                     |            | 1.2 U            |     |      | 1.2 U            |     |      | 1.2 U            |     |      | 1.2 U            |     |      |
| 2-CHLOROETHYL VINYL ETHER                                                                      |            | 0.26 UR          | M   |      | 0.26 UR          | M   |      | 0.26 UR          | M   |      | 0.26 UR          | M   |      |
| 2-CHLOROTOLUENE                                                                                |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| 2-HEXANONE                                                                                     |            | 0.54 U           |     |      | 0.54 U           |     |      | 0.54 U           |     |      | 0.54 U           |     |      |
| 4-CHLOROTOLUENE                                                                                |            | 0.09 U           |     |      | 0.09 U           |     |      | 0.09 U           |     |      | 0.09 U           |     |      |
| 4-ISOPROPYLTOLUENE                                                                             |            | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      |
| 4-METHYL-2-PENTANONE                                                                           |            | 0.42 UJ          | C   |      | 0.42 UJ          | C   |      | 0.42 UJ          | C   |      | 0.42 UJ          | C   |      |
| ACETONE                                                                                        |            | 5.4 UJ           | C   |      | 5.4 UJ           | C   |      | 5.4 UJ           | C   |      | 5.4 UJ           | C   |      |
| BENZENE                                                                                        |            | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      |
| BROMOBENZENE                                                                                   |            | 0.12 U           |     |      | 0.12 U           |     |      | 0.12 U           |     |      | 0.12 U           |     |      |
| BROMOCHLOROMETHANE                                                                             |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| BROMODICHLOROMETHANE                                                                           |            | 0.17 U           |     |      | 0.17 U           |     |      | 0.17 U           |     |      | 0.17 U           |     |      |
| BROMOFORM                                                                                      |            | 0.76 U           |     |      | 0.76 U           |     |      | 0.76 U           |     |      | 0.76 U           |     |      |
| BROMOMETHANE                                                                                   |            | 0.42 U           |     |      | 0.42 U           |     |      | 0.42 U           |     |      | 0.42 U           |     |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW44A-070918 |     |      | MSA-SW44B-070918 |     |      | MSA-SW44C-070918 |     |      | MSA-SW44D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-29     |     |      | 240-98276-30     |     |      | 240-98276-31     |     |      | 240-98276-32     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE                                                                      |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,1,1-TRICHLOROETHANE                                                                          |            | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      |
| 1,1,2,2-TETRACHLOROETHANE                                                                      |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| 1,1,2-TRICHLOROTRIFLUOROETHANE                                                                 |            | 0.41             | U   |      | 0.41             | U   |      | 0.41             | U   |      | 0.41             | U   |      |
| 1,1-DICHLOROETHANE                                                                             |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| 1,1-DICHLOROETHENE                                                                             |            | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    |
| 1,1-DICHLOROPROPENE                                                                            |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,2,3-TRICHLOROBENZENE                                                                         |            | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      |
| 1,2,3-TRICHLOROPROPANE                                                                         |            | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      |
| 1,2,3-TRIMETHYLBENZENE                                                                         |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,2,4-TRICHLOROBENZENE                                                                         |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| 1,2,4-TRIMETHYLBENZENE                                                                         |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| 1,2-DIBROMO-3-CHLOROPROPANE                                                                    |            | 0.91             | U   |      | 0.91             | U   |      | 0.91             | U   |      | 0.91             | U   |      |
| 1,2-DIBROMOETHANE                                                                              |            | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      |
| 1,2-DICHLOROBENZENE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,2-DICHLOROETHANE                                                                             |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| 1,2-DICHLOROPROPANE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,3-DICHLOROBENZENE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,3-DICHLOROPROPANE                                                                            |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| 1,4-DICHLOROBENZENE                                                                            |            | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      |
| 2,2-DICHLOROPROPANE                                                                            |            | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      |
| 2-BUTANONE                                                                                     |            | 1.2              | U   |      | 1.2              | U   |      | 1.2              | U   |      | 1.2              | U   |      |
| 2-CHLOROETHYL VINYL ETHER                                                                      |            | 0.26             | UR  | M    | 0.26             | UR  | M    | 0.26             | UR  | M    | 0.26             | UR  | M    |
| 2-CHLOROTOLUENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 2-HEXANONE                                                                                     |            | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      |
| 4-CHLOROTOLUENE                                                                                |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| 4-ISOPROPYLTOLUENE                                                                             |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| 4-METHYL-2-PENTANONE                                                                           |            | 0.42             | UJ  | C    | 0.42             | UJ  | C    | 0.42             | UJ  | C    | 0.42             | UJ  | C    |
| ACETONE                                                                                        |            | 5.4              | UJ  | C    | 5.4              | UJ  | C    | 5.4              | UJ  | C    | 5.4              | UJ  | C    |
| BENZENE                                                                                        |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| BROMOBENZENE                                                                                   |            | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      |
| BROMOCHLOROMETHANE                                                                             |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| BROMODICHLOROMETHANE                                                                           |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| BROMOFORM                                                                                      |            | 0.76             | U   |      | 0.76             | U   |      | 0.76             | U   |      | 0.76             | U   |      |
| BROMOMETHANE                                                                                   |            | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW45A-070918 |     |      | MSA-SW45B-070918 |     |      | MSA-SW45C-070918 |     |      | MSA-SW45D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-33     |     |      | 240-98276-34     |     |      | 240-98276-35     |     |      | 240-98276-36     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE                                                                      |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,1,1-TRICHLOROETHANE                                                                          |            | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      |
| 1,1,2,2-TETRACHLOROETHANE                                                                      |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| 1,1,2-TRICHLOROTRIFLUOROETHANE                                                                 |            | 0.41             | U   |      | 0.41             | U   |      | 0.41             | U   |      | 0.41             | U   |      |
| 1,1-DICHLOROETHANE                                                                             |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| 1,1-DICHLOROETHENE                                                                             |            | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    |
| 1,1-DICHLOROPROPENE                                                                            |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,2,3-TRICHLOROBENZENE                                                                         |            | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      |
| 1,2,3-TRICHLOROPROPANE                                                                         |            | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      |
| 1,2,3-TRIMETHYLBENZENE                                                                         |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,2,4-TRICHLOROBENZENE                                                                         |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| 1,2,4-TRIMETHYLBENZENE                                                                         |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| 1,2-DIBROMO-3-CHLOROPROPANE                                                                    |            | 0.91             | U   |      | 0.91             | U   |      | 0.91             | U   |      | 0.91             | U   |      |
| 1,2-DIBROMOETHANE                                                                              |            | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      |
| 1,2-DICHLOROBENZENE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,2-DICHLOROETHANE                                                                             |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| 1,2-DICHLOROPROPANE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,3-DICHLOROBENZENE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,3-DICHLOROPROPANE                                                                            |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| 1,4-DICHLOROBENZENE                                                                            |            | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      |
| 2,2-DICHLOROPROPANE                                                                            |            | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      |
| 2-BUTANONE                                                                                     |            | 1.2              | U   |      | 1.2              | U   |      | 1.2              | U   |      | 1.2              | U   |      |
| 2-CHLOROETHYL VINYL ETHER                                                                      |            | 0.26             | UR  | M    | 0.26             | UR  | M    | 0.26             | UR  | M    | 0.26             | UR  | M    |
| 2-CHLOROTOLUENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 2-HEXANONE                                                                                     |            | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      |
| 4-CHLOROTOLUENE                                                                                |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| 4-ISOPROPYLTOLUENE                                                                             |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| 4-METHYL-2-PENTANONE                                                                           |            | 0.42             | UJ  | C    | 0.42             | UJ  | C    | 0.42             | UJ  | C    | 0.42             | UJ  | C    |
| ACETONE                                                                                        |            | 5.4              | UJ  | C    | 5.4              | UJ  | C    | 5.4              | UJ  | C    | 5.4              | UJ  | C    |
| BENZENE                                                                                        |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| BROMOBENZENE                                                                                   |            | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      |
| BROMOCHLOROMETHANE                                                                             |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| BROMODICHLOROMETHANE                                                                           |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| BROMOFORM                                                                                      |            | 0.76             | U   |      | 0.76             | U   |      | 0.76             | U   |      | 0.76             | U   |      |
| BROMOMETHANE                                                                                   |            | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      |



|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW46A-070918 |     |      | MSA-SW47A-070918 |     |      | MSA-SW48A-070918 |     |      | MSA-SW49A-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-42     |     |      | 240-98276-43     |     |      | 240-98276-44     |     |      | 240-98276-45     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE                                                                      |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,1,1-TRICHLOROETHANE                                                                          |            | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      |
| 1,1,2,2-TETRACHLOROETHANE                                                                      |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| 1,1,2-TRICHLOROTRIFLUOROETHANE                                                                 |            | 0.41             | U   |      | 0.41             | U   |      | 0.41             | U   |      | 0.41             | U   |      |
| 1,1-DICHLOROETHANE                                                                             |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| 1,1-DICHLOROETHENE                                                                             |            | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    |
| 1,1-DICHLOROPROPENE                                                                            |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,2,3-TRICHLOROBENZENE                                                                         |            | 0.54             | UJ  | C    | 0.54             | UJ  | C    | 0.54             | UJ  | C    | 0.54             | UJ  | C    |
| 1,2,3-TRICHLOROPROPANE                                                                         |            | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      | 0.24             | U   |      |
| 1,2,3-TRIMETHYLBENZENE                                                                         |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| 1,2,4-TRICHLOROBENZENE                                                                         |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| 1,2,4-TRIMETHYLBENZENE                                                                         |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| 1,2-DIBROMO-3-CHLOROPROPANE                                                                    |            | 0.91             | U   |      | 0.91             | U   |      | 0.91             | U   |      | 0.91             | U   |      |
| 1,2-DIBROMOETHANE                                                                              |            | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      |
| 1,2-DICHLOROBENZENE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,2-DICHLOROETHANE                                                                             |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| 1,2-DICHLOROPROPANE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,3-DICHLOROBENZENE                                                                            |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 1,3-DICHLOROPROPANE                                                                            |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| 1,4-DICHLOROBENZENE                                                                            |            | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      |
| 2,2-DICHLOROPROPANE                                                                            |            | 0.31             | UJ  | C    | 0.31             | UJ  | C    | 0.31             | UJ  | C    | 0.31             | UJ  | C    |
| 2-BUTANONE                                                                                     |            | 1.2              | U   |      | 1.2              | U   |      | 1.2              | U   |      | 1.2              | U   |      |
| 2-CHLOROETHYL VINYL ETHER                                                                      |            | 0.26             | UR  | M    | 0.26             | UR  | M    | 0.26             | UR  | M    | 0.26             | UR  | M    |
| 2-CHLOROTOLUENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| 2-HEXANONE                                                                                     |            | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      | 0.54             | U   |      |
| 4-CHLOROTOLUENE                                                                                |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| 4-ISOPROPYLTOLUENE                                                                             |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| 4-METHYL-2-PENTANONE                                                                           |            | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      |
| ACETONE                                                                                        |            | 5.4              | U   |      | 5.4              | U   |      | 5.4              | U   |      | 5.4              | U   |      |
| BENZENE                                                                                        |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| BROMOBENZENE                                                                                   |            | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      | 0.12             | U   |      |
| BROMOCHLOROMETHANE                                                                             |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| BROMODICHLOROMETHANE                                                                           |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| BROMOFORM                                                                                      |            | 0.76             | U   |      | 0.76             | U   |      | 0.76             | U   |      | 0.76             | U   |      |
| BROMOMETHANE                                                                                   |            | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      | 0.42             | U   |      |

|                                                                                                |            |              |     |      |
|------------------------------------------------------------------------------------------------|------------|--------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | TB-070918    |     |      |
|                                                                                                | LAB_ID     | 240-98276-41 |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018     |     |      |
|                                                                                                | QC_TYPE    | TB           |     |      |
|                                                                                                | UNITS      | UG/L         |     |      |
|                                                                                                | PCT_SOLIDS | 0.0          |     |      |
|                                                                                                | DUP_OF     |              |     |      |
| PARAMETER                                                                                      |            | RESULT       | VQL | QLCD |
| 1,1,1,2-TETRACHLOROETHANE                                                                      |            | 0.14         | U   |      |
| 1,1,1-TRICHLOROETHANE                                                                          |            | 0.24         | U   |      |
| 1,1,2,2-TETRACHLOROETHANE                                                                      |            | 0.13         | U   |      |
| 1,1,2-TRICHLOROTRIFLUOROETHANE                                                                 |            | 0.41         | U   |      |
| 1,1-DICHLOROETHANE                                                                             |            | 0.17         | U   |      |
| 1,1-DICHLOROETHENE                                                                             |            | 0.19         | UJ  | C    |
| 1,1-DICHLOROPROPENE                                                                            |            | 0.14         | U   |      |
| 1,2,3-TRICHLOROBENZENE                                                                         |            | 0.54         | UJ  | C    |
| 1,2,3-TRICHLOROPROPANE                                                                         |            | 0.24         | U   |      |
| 1,2,3-TRIMETHYLBENZENE                                                                         |            | 0.14         | U   |      |
| 1,2,4-TRICHLOROBENZENE                                                                         |            | 0.26         | U   |      |
| 1,2,4-TRIMETHYLBENZENE                                                                         |            | 0.07         | U   |      |
| 1,2-DIBROMO-3-CHLOROPROPANE                                                                    |            | 0.91         | U   |      |
| 1,2-DIBROMOETHANE                                                                              |            | 0.12         | U   |      |
| 1,2-DICHLOROBENZENE                                                                            |            | 0.15         | U   |      |
| 1,2-DICHLOROETHANE                                                                             |            | 0.21         | U   |      |
| 1,2-DICHLOROPROPANE                                                                            |            | 0.15         | U   |      |
| 1,3-DICHLOROBENZENE                                                                            |            | 0.15         | U   |      |
| 1,3-DICHLOROPROPANE                                                                            |            | 0.21         | U   |      |
| 1,4-DICHLOROBENZENE                                                                            |            | 0.16         | U   |      |
| 2,2-DICHLOROPROPANE                                                                            |            | 0.31         | UJ  | C    |
| 2-BUTANONE                                                                                     |            | 1.2          | U   |      |
| 2-CHLOROETHYL VINYL ETHER                                                                      |            | 0.26         | UR  | M    |
| 2-CHLOROTOLUENE                                                                                |            | 0.15         | U   |      |
| 2-HEXANONE                                                                                     |            | 0.54         | U   |      |
| 4-CHLOROTOLUENE                                                                                |            | 0.09         | U   |      |
| 4-ISOPROPYLTOLUENE                                                                             |            | 0.13         | U   |      |
| 4-METHYL-2-PENTANONE                                                                           |            | 0.42         | U   |      |
| ACETONE                                                                                        |            | 6.1          |     |      |
| BENZENE                                                                                        |            | 0.13         | U   |      |
| BROMOBENZENE                                                                                   |            | 0.12         | U   |      |
| BROMOCHLOROMETHANE                                                                             |            | 0.14         | U   |      |
| BROMODICHLOROMETHANE                                                                           |            | 0.17         | U   |      |
| BROMOFORM                                                                                      |            | 0.76         | U   |      |
| BROMOMETHANE                                                                                   |            | 0.42         | U   |      |

|                                                                                                |            |                 |     |      |                 |     |      |                 |     |      |                 |     |      |
|------------------------------------------------------------------------------------------------|------------|-----------------|-----|------|-----------------|-----|------|-----------------|-----|------|-----------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | EL-SW01A-070918 |     |      | EL-SW01B-070918 |     |      | EL-SW01C-070918 |     |      | EL-SW01D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-37    |     |      | 240-98276-38    |     |      | 240-98276-39    |     |      | 240-98276-40    |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018        |     |      | 7/9/2018        |     |      | 7/9/2018        |     |      | 7/9/2018        |     |      |
|                                                                                                | QC_TYPE    | NM              |     |      | NM              |     |      | NM              |     |      | NM              |     |      |
|                                                                                                | UNITS      | UG/L            |     |      | UG/L            |     |      | UG/L            |     |      | UG/L            |     |      |
|                                                                                                | PCT_SOLIDS | 0.0             |     |      | 0.0             |     |      | 0.0             |     |      | 0.0             |     |      |
|                                                                                                | DUP_OF     |                 |     |      |                 |     |      |                 |     |      |                 |     |      |
| PARAMETER                                                                                      |            | RESULT          | VQL | QLCD | RESULT          | VQL | QLCD | RESULT          | VQL | QLCD | RESULT          | VQL | QLCD |
| CARBON DISULFIDE                                                                               |            | 0.28            | U   |      | 0.28            | U   |      | 0.28            | U   |      | 0.28            | UJ  | C    |
| CARBON TETRACHLORIDE                                                                           |            | 0.26            | U   |      | 0.26            | U   |      | 0.26            | U   |      | 0.26            | U   |      |
| CHLOROBENZENE                                                                                  |            | 0.14            | U   |      | 0.14            | U   |      | 0.14            | U   |      | 0.14            | U   |      |
| CHLORODIBROMOMETHANE                                                                           |            | 0.39            | U   |      | 0.39            | U   |      | 0.39            | U   |      | 0.39            | U   |      |
| CHLORODIFLUOROMETHANE                                                                          |            | 1               | UJ  | Q    | 1               | UJ  | Q    | 1               | UJ  | Q    | 1               | UJ  | Q    |
| CHLOROETHANE                                                                                   |            | 0.83            | U   |      | 0.83            | U   |      | 0.83            | U   |      | 0.83            | U   |      |
| CHLOROFORM                                                                                     |            | 0.13            | U   |      | 0.13            | U   |      | 0.13            | U   |      | 0.13            | U   |      |
| CHLOROMETHANE                                                                                  |            | 0.2             | U   |      | 0.2             | U   |      | 0.2             | U   |      | 0.2             | U   |      |
| CIS-1,2-DICHLOROETHENE                                                                         |            | 0.16            | U   |      | 0.16            | U   |      | 0.16            | U   |      | 0.16            | U   |      |
| CIS-1,3-DICHLOROPROPENE                                                                        |            | 0.61            | U   |      | 0.61            | U   |      | 0.61            | U   |      | 0.61            | U   |      |
| DIBROMOMETHANE                                                                                 |            | 0.09            | U   |      | 0.09            | U   |      | 0.09            | U   |      | 0.09            | U   |      |
| DICHLORODIFLUOROMETHANE                                                                        |            | 0.35            | U   |      | 0.35            | U   |      | 0.35            | U   |      | 0.35            | U   |      |
| DIISOPROPYL ETHER                                                                              |            | 0.17            | U   |      | 0.17            | U   |      | 0.17            | U   |      | 0.17            | U   |      |
| ETHYL TERT-BUTYL ETHER                                                                         |            | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      |
| ETHYLBENZENE                                                                                   |            | 0.11            | U   |      | 0.11            | U   |      | 0.11            | U   |      | 0.11            | U   |      |
| HEXACHLOROBUTADIENE                                                                            |            | 0.83            | UJ  | C    | 0.83            | UJ  | C    | 0.83            | UJ  | C    | 0.83            | UJ  | C    |
| ISOPROPYLBENZENE                                                                               |            | 0.09            | U   |      | 0.09            | U   |      | 0.09            | U   |      | 0.09            | U   |      |
| M+P-XYLENES                                                                                    |            | 0.08            | U   |      | 0.08            | U   |      | 0.08            | U   |      | 0.08            | U   |      |
| METHYL TERT-BUTYL ETHER                                                                        |            | 0.07            | U   |      | 0.07            | U   |      | 0.07            | U   |      | 0.07            | U   |      |
| METHYLENE CHLORIDE                                                                             |            | 2.6             | U   |      | 2.6             | U   |      | 2.6             | U   |      | 2.6             | U   |      |
| NAPHTHALENE                                                                                    |            | 0.32            | U   |      | 0.32            | U   |      | 0.32            | U   |      | 0.32            | UJ  | C    |
| N-BUTYLBENZENE                                                                                 |            | 0.14            | U   |      | 0.14            | U   |      | 0.14            | U   |      | 0.14            | UJ  | C    |
| N-PROPYLBENZENE                                                                                |            | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      |
| O-XYLENE                                                                                       |            | 0.09            | U   |      | 0.09            | U   |      | 0.09            | U   |      | 0.09            | U   |      |
| SEC-BUTYLBENZENE                                                                               |            | 0.13            | U   |      | 0.13            | U   |      | 0.13            | U   |      | 0.13            | U   |      |
| STYRENE                                                                                        |            | 0.1             | U   |      | 0.1             | U   |      | 0.1             | U   |      | 0.1             | U   |      |
| TERT-AMYL METHYL ETHER                                                                         |            | 0.11            | U   |      | 0.11            | U   |      | 0.11            | U   |      | 0.11            | U   |      |
| TERT-BUTYLBENZENE                                                                              |            | 0.14            | U   |      | 0.14            | U   |      | 0.14            | U   |      | 0.14            | UJ  | C    |
| TERTIARY-BUTYL ALCOHOL                                                                         |            | 1.7             | UJ  | C    | 1.7             | UJ  | C    | 1.7             | UJ  | C    | 1.7             | U   |      |
| TETRACHLOROETHENE                                                                              |            | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      |
| TOLUENE                                                                                        |            | 0.14            | U   |      | 0.14            | U   |      | 0.14            | U   |      | 0.14            | U   |      |
| TOTAL XYLENES                                                                                  |            | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      | 0.15            | U   |      |
| TRANS-1,2-DICHLOROETHENE                                                                       |            | 0.19            | U   |      | 0.19            | U   |      | 0.19            | U   |      | 0.19            | U   |      |
| TRANS-1,3-DICHLOROPROPENE                                                                      |            | 0.67            | U   |      | 0.67            | U   |      | 0.67            | U   |      | 0.67            | U   |      |
| TRICHLOROETHENE                                                                                |            | 0.1             | U   |      | 0.1             | U   |      | 0.1             | U   |      | 0.1             | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW37A-070918 |     |      | MSA-SW37B-070918 |     |      | MSA-SW37C-070918 |     |      | MSA-SW37D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-1      |     |      | 240-98276-2      |     |      | 240-98276-3      |     |      | 240-98276-4      |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CARBON DISULFIDE                                                                               |            | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      |
| CARBON TETRACHLORIDE                                                                           |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| CHLOROBENZENE                                                                                  |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| CHLORODIBROMOMETHANE                                                                           |            | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      |
| CHLORODIFLUOROMETHANE                                                                          |            | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    |
| CHLOROETHANE                                                                                   |            | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      |
| CHLOROFORM                                                                                     |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| CHLOROMETHANE                                                                                  |            | 0.26             | J   | P    | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| CIS-1,2-DICHLOROETHENE                                                                         |            | 0.16             | J   | P    | 0.23             | J   | P    | 0.18             | J   | P    | 0.16             | U   |      |
| CIS-1,3-DICHLOROPROPENE                                                                        |            | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      |
| DIBROMOMETHANE                                                                                 |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| DICHLORODIFLUOROMETHANE                                                                        |            | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      |
| DIISOPROPYL ETHER                                                                              |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| ETHYL TERT-BUTYL ETHER                                                                         |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| ETHYLBENZENE                                                                                   |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| HEXACHLOROBUTADIENE                                                                            |            | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      |
| ISOPROPYLBENZENE                                                                               |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| M+P-XYLENES                                                                                    |            | 0.23             | J   | P    | 0.14             | J   | P    | 0.08             | U   |      | 0.08             | U   |      |
| METHYL TERT-BUTYL ETHER                                                                        |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| METHYLENE CHLORIDE                                                                             |            | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      |
| NAPHTHALENE                                                                                    |            | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      |
| N-BUTYLBENZENE                                                                                 |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| N-PROPYLBENZENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| O-XYLENE                                                                                       |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| SEC-BUTYLBENZENE                                                                               |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| STYRENE                                                                                        |            | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      |
| TERT-AMYL METHYL ETHER                                                                         |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| TERT-BUTYLBENZENE                                                                              |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TERTIARY-BUTYL ALCOHOL                                                                         |            | 1.7              | U   |      | 1.7              | U   |      | 1.7              | U   |      | 1.7              | U   |      |
| TETRACHLOROETHENE                                                                              |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TOLUENE                                                                                        |            | 0.39             | J   | P    | 0.25             | J   | P    | 0.14             | U   |      | 0.14             | U   |      |
| TOTAL XYLENES                                                                                  |            | 0.23             | J   | P    | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TRANS-1,2-DICHLOROETHENE                                                                       |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| TRANS-1,3-DICHLOROPROPENE                                                                      |            | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      |
| TRICHLOROETHENE                                                                                |            | 0.1              | U   |      | 0.11             | J   | P    | 0.11             | J   | P    | 0.1              | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW38A-070918 |     |      | MSA-SW38B-070918 |     |      | MSA-SW38C-070918 |     |      | MSA-SW38D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-5      |     |      | 240-98276-6      |     |      | 240-98276-7      |     |      | 240-98276-8      |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CARBON DISULFIDE                                                                               |            | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      |
| CARBON TETRACHLORIDE                                                                           |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| CHLOROBENZENE                                                                                  |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| CHLORODIBROMOMETHANE                                                                           |            | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      |
| CHLORODIFLUOROMETHANE                                                                          |            | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    |
| CHLOROETHANE                                                                                   |            | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      |
| CHLOROFORM                                                                                     |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| CHLOROMETHANE                                                                                  |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| CIS-1,2-DICHLOROETHENE                                                                         |            | 0.72             | J   | P    | 0.16             | U   |      | 0.2              | J   | P    | 0.16             | U   |      |
| CIS-1,3-DICHLOROPROPENE                                                                        |            | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      |
| DIBROMOMETHANE                                                                                 |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| DICHLORODIFLUOROMETHANE                                                                        |            | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      |
| DIISOPROPYL ETHER                                                                              |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| ETHYL TERT-BUTYL ETHER                                                                         |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| ETHYLBENZENE                                                                                   |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| HEXACHLOROBUTADIENE                                                                            |            | 0.83             | U   |      | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    |
| ISOPROPYLBENZENE                                                                               |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| M+P-XYLENES                                                                                    |            | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      |
| METHYL TERT-BUTYL ETHER                                                                        |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| METHYLENE CHLORIDE                                                                             |            | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      |
| NAPHTHALENE                                                                                    |            | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      |
| N-BUTYLBENZENE                                                                                 |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| N-PROPYLBENZENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| O-XYLENE                                                                                       |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| SEC-BUTYLBENZENE                                                                               |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| STYRENE                                                                                        |            | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      |
| TERT-AMYL METHYL ETHER                                                                         |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| TERT-BUTYLBENZENE                                                                              |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TERTIARY-BUTYL ALCOHOL                                                                         |            | 1.7              | U   |      | 1.7              | UJ  | C    | 1.7              | UJ  | C    | 1.7              | UJ  | C    |
| TETRACHLOROETHENE                                                                              |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TOLUENE                                                                                        |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TOTAL XYLENES                                                                                  |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TRANS-1,2-DICHLOROETHENE                                                                       |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| TRANS-1,3-DICHLOROPROPENE                                                                      |            | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      |
| TRICHLOROETHENE                                                                                |            | 0.15             | J   | P    | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW39A-070918 |     |      | MSA-SW39B-070918 |     |      | MSA-SW39C-070918 |     |      | MSA-SW39D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-9      |     |      | 240-98276-10     |     |      | 240-98276-11     |     |      | 240-98276-12     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CARBON DISULFIDE                                                                               |            | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      |
| CARBON TETRACHLORIDE                                                                           |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| CHLOROBENZENE                                                                                  |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| CHLORODIBROMOMETHANE                                                                           |            | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      |
| CHLORODIFLUOROMETHANE                                                                          |            | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    |
| CHLOROETHANE                                                                                   |            | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      |
| CHLOROFORM                                                                                     |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| CHLOROMETHANE                                                                                  |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| CIS-1,2-DICHLOROETHENE                                                                         |            | 0.16             | U   |      | 0.16             | U   |      | 0.16             | J   | P    | 0.24             | J   | P    |
| CIS-1,3-DICHLOROPROPENE                                                                        |            | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      |
| DIBROMOMETHANE                                                                                 |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| DICHLORODIFLUOROMETHANE                                                                        |            | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      |
| DIISOPROPYL ETHER                                                                              |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| ETHYL TERT-BUTYL ETHER                                                                         |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| ETHYLBENZENE                                                                                   |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| HEXACHLOROBUTADIENE                                                                            |            | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    |
| ISOPROPYLBENZENE                                                                               |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| M+P-XYLENES                                                                                    |            | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      |
| METHYL TERT-BUTYL ETHER                                                                        |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| METHYLENE CHLORIDE                                                                             |            | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      |
| NAPHTHALENE                                                                                    |            | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      |
| N-BUTYLBENZENE                                                                                 |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| N-PROPYLBENZENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| O-XYLENE                                                                                       |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| SEC-BUTYLBENZENE                                                                               |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| STYRENE                                                                                        |            | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      |
| TERT-AMYL METHYL ETHER                                                                         |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| TERT-BUTYLBENZENE                                                                              |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TERTIARY-BUTYL ALCOHOL                                                                         |            | 1.7              | UJ  | C    | 1.7              | U   |      | 1.7              | U   |      | 1.7              | U   |      |
| TETRACHLOROETHENE                                                                              |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TOLUENE                                                                                        |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TOTAL XYLENES                                                                                  |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TRANS-1,2-DICHLOROETHENE                                                                       |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| TRANS-1,3-DICHLOROPROPENE                                                                      |            | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      |
| TRICHLOROETHENE                                                                                |            | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      |



|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW40A-070918 |     |      | MSA-SW40B-070918 |     |      | MSA-SW40C-070918 |     |      | MSA-SW40D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-13     |     |      | 240-98276-14     |     |      | 240-98276-15     |     |      | 240-98276-16     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CARBON DISULFIDE                                                                               |            | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      |
| CARBON TETRACHLORIDE                                                                           |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| CHLOROBENZENE                                                                                  |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| CHLORODIBROMOMETHANE                                                                           |            | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      |
| CHLORODIFLUOROMETHANE                                                                          |            | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    |
| CHLOROETHANE                                                                                   |            | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      |
| CHLOROFORM                                                                                     |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| CHLOROMETHANE                                                                                  |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| CIS-1,2-DICHLOROETHENE                                                                         |            | 0.18             | J   | P    | 0.33             | J   | P    | 0.21             | J   | P    | 0.16             | U   |      |
| CIS-1,3-DICHLOROPROPENE                                                                        |            | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      |
| DIBROMOMETHANE                                                                                 |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| DICHLORODIFLUOROMETHANE                                                                        |            | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      |
| DIISOPROPYL ETHER                                                                              |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| ETHYL TERT-BUTYL ETHER                                                                         |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| ETHYLBENZENE                                                                                   |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| HEXACHLOROBUTADIENE                                                                            |            | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    |
| ISOPROPYLBENZENE                                                                               |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| M+P-XYLENES                                                                                    |            | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      |
| METHYL TERT-BUTYL ETHER                                                                        |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| METHYLENE CHLORIDE                                                                             |            | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      |
| NAPHTHALENE                                                                                    |            | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      |
| N-BUTYLBENZENE                                                                                 |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| N-PROPYLBENZENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| O-XYLENE                                                                                       |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| SEC-BUTYLBENZENE                                                                               |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| STYRENE                                                                                        |            | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      |
| TERT-AMYL METHYL ETHER                                                                         |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| TERT-BUTYLBENZENE                                                                              |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TERTIARY-BUTYL ALCOHOL                                                                         |            | 1.7              | U   |      | 1.7              | U   |      | 1.7              | U   |      | 1.7              | U   |      |
| TETRACHLOROETHENE                                                                              |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TOLUENE                                                                                        |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TOTAL XYLENES                                                                                  |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TRANS-1,2-DICHLOROETHENE                                                                       |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| TRANS-1,3-DICHLOROPROPENE                                                                      |            | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      |
| TRICHLOROETHENE                                                                                |            | 0.1              | U   |      | 0.23             | J   | P    | 0.1              | U   |      | 0.1              | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW41A-070918 |     |      | MSA-SW41B-070918 |     |      | MSA-SW41C-070918 |     |      | MSA-SW41D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-17     |     |      | 240-98276-18     |     |      | 240-98276-19     |     |      | 240-98276-20     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CARBON DISULFIDE                                                                               |            | 0.28 U           |     |      | 0.28 U           |     |      | 0.28 U           |     |      | 0.28 U           |     |      |
| CARBON TETRACHLORIDE                                                                           |            | 0.26 U           |     |      | 0.26 U           |     |      | 0.26 U           |     |      | 0.26 U           |     |      |
| CHLOROBENZENE                                                                                  |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| CHLORODIBROMOMETHANE                                                                           |            | 0.39 U           |     |      | 0.39 U           |     |      | 0.39 U           |     |      | 0.39 U           |     |      |
| CHLORODIFLUOROMETHANE                                                                          |            | 1 UJ             | Q   |      | 1 UJ             | Q   |      | 1 UJ             | Q   |      | 1 UJ             | Q   |      |
| CHLOROETHANE                                                                                   |            | 0.83 U           |     |      | 0.83 U           |     |      | 0.83 U           |     |      | 0.83 U           |     |      |
| CHLOROFORM                                                                                     |            | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      |
| CHLOROMETHANE                                                                                  |            | 0.2 U            |     |      | 0.2 U            |     |      | 0.2 U            |     |      | 0.2 U            |     |      |
| CIS-1,2-DICHLOROETHENE                                                                         |            | 0.16 U           |     |      | 0.18 J           | P   |      | 0.16 U           |     |      | 0.16 U           |     |      |
| CIS-1,3-DICHLOROPROPENE                                                                        |            | 0.61 U           |     |      | 0.61 U           |     |      | 0.61 U           |     |      | 0.61 U           |     |      |
| DIBROMOMETHANE                                                                                 |            | 0.09 U           |     |      | 0.09 U           |     |      | 0.09 U           |     |      | 0.09 U           |     |      |
| DICHLORODIFLUOROMETHANE                                                                        |            | 0.35 U           |     |      | 0.35 U           |     |      | 0.35 U           |     |      | 0.35 U           |     |      |
| DIISOPROPYL ETHER                                                                              |            | 0.17 U           |     |      | 0.17 U           |     |      | 0.17 U           |     |      | 0.17 U           |     |      |
| ETHYL TERT-BUTYL ETHER                                                                         |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| ETHYLBENZENE                                                                                   |            | 0.11 U           |     |      | 0.11 U           |     |      | 0.11 U           |     |      | 0.11 U           |     |      |
| HEXACHLOROBUTADIENE                                                                            |            | 0.83 UJ          | C   |      | 0.83 UJ          | C   |      | 0.83 UJ          | C   |      | 0.83 UJ          | C   |      |
| ISOPROPYLBENZENE                                                                               |            | 0.09 U           |     |      | 0.09 U           |     |      | 0.09 U           |     |      | 0.09 U           |     |      |
| M+P-XYLENES                                                                                    |            | 0.08 U           |     |      | 0.08 U           |     |      | 0.08 U           |     |      | 0.08 U           |     |      |
| METHYL TERT-BUTYL ETHER                                                                        |            | 0.07 U           |     |      | 0.07 U           |     |      | 0.07 U           |     |      | 0.07 U           |     |      |
| METHYLENE CHLORIDE                                                                             |            | 2.6 U            |     |      | 2.6 U            |     |      | 2.6 U            |     |      | 2.6 U            |     |      |
| NAPHTHALENE                                                                                    |            | 0.32 U           |     |      | 0.32 U           |     |      | 0.32 U           |     |      | 0.32 U           |     |      |
| N-BUTYLBENZENE                                                                                 |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| N-PROPYLBENZENE                                                                                |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| O-XYLENE                                                                                       |            | 0.09 U           |     |      | 0.09 U           |     |      | 0.09 U           |     |      | 0.09 U           |     |      |
| SEC-BUTYLBENZENE                                                                               |            | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      | 0.13 U           |     |      |
| STYRENE                                                                                        |            | 0.1 U            |     |      | 0.1 U            |     |      | 0.1 U            |     |      | 0.1 U            |     |      |
| TERT-AMYL METHYL ETHER                                                                         |            | 0.11 U           |     |      | 0.11 U           |     |      | 0.11 U           |     |      | 0.11 U           |     |      |
| TERT-BUTYLBENZENE                                                                              |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| TERTIARY-BUTYL ALCOHOL                                                                         |            | 1.7 U            |     |      | 1.7 U            |     |      | 1.7 U            |     |      | 1.7 U            |     |      |
| TETRACHLOROETHENE                                                                              |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| TOLUENE                                                                                        |            | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      | 0.14 U           |     |      |
| TOTAL XYLENES                                                                                  |            | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      | 0.15 U           |     |      |
| TRANS-1,2-DICHLOROETHENE                                                                       |            | 0.19 U           |     |      | 0.19 U           |     |      | 0.19 U           |     |      | 0.19 U           |     |      |
| TRANS-1,3-DICHLOROPROPENE                                                                      |            | 0.67 U           |     |      | 0.67 U           |     |      | 0.67 U           |     |      | 0.67 U           |     |      |
| TRICHLOROETHENE                                                                                |            | 0.1 U            |     |      | 0.1 U            |     |      | 0.1 U            |     |      | 0.1 U            |     |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW42A-070918 |     |      | MSA-SW42B-070918 |     |      | MSA-SW42C-070918 |     |      | MSA-SW42D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-21     |     |      | 240-98276-22     |     |      | 240-98276-23     |     |      | 240-98276-24     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CARBON DISULFIDE                                                                               |            | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      |
| CARBON TETRACHLORIDE                                                                           |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| CHLOROBENZENE                                                                                  |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| CHLORODIBROMOMETHANE                                                                           |            | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      |
| CHLORODIFLUOROMETHANE                                                                          |            | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    |
| CHLOROETHANE                                                                                   |            | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      |
| CHLOROFORM                                                                                     |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| CHLOROMETHANE                                                                                  |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| CIS-1,2-DICHLOROETHENE                                                                         |            | 0.16             | U   |      | 0.16             | U   |      | 0.2              | J   | P    | 0.16             | U   |      |
| CIS-1,3-DICHLOROPROPENE                                                                        |            | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      |
| DIBROMOMETHANE                                                                                 |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| DICHLORODIFLUOROMETHANE                                                                        |            | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      |
| DIISOPROPYL ETHER                                                                              |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| ETHYL TERT-BUTYL ETHER                                                                         |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| ETHYLBENZENE                                                                                   |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| HEXACHLOROBUTADIENE                                                                            |            | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    |
| ISOPROPYLBENZENE                                                                               |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| M+P-XYLENES                                                                                    |            | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      |
| METHYL TERT-BUTYL ETHER                                                                        |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| METHYLENE CHLORIDE                                                                             |            | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      |
| NAPHTHALENE                                                                                    |            | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      |
| N-BUTYLBENZENE                                                                                 |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| N-PROPYLBENZENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| O-XYLENE                                                                                       |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| SEC-BUTYLBENZENE                                                                               |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| STYRENE                                                                                        |            | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      |
| TERT-AMYL METHYL ETHER                                                                         |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| TERT-BUTYLBENZENE                                                                              |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TERTIARY-BUTYL ALCOHOL                                                                         |            | 1.7              | UJ  | C    | 1.7              | UJ  | C    | 1.7              | UJ  | C    | 1.7              | UJ  | C    |
| TETRACHLOROETHENE                                                                              |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TOLUENE                                                                                        |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TOTAL XYLENES                                                                                  |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TRANS-1,2-DICHLOROETHENE                                                                       |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| TRANS-1,3-DICHLOROPROPENE                                                                      |            | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      |
| TRICHLOROETHENE                                                                                |            | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW43A-070918 |     |      | MSA-SW43B-070918 |     |      | MSA-SW43C-070918 |     |      | MSA-SW43D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-25     |     |      | 240-98276-26     |     |      | 240-98276-27     |     |      | 240-98276-28     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CARBON DISULFIDE                                                                               |            | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      |
| CARBON TETRACHLORIDE                                                                           |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| CHLOROBENZENE                                                                                  |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| CHLORODIBROMOMETHANE                                                                           |            | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      |
| CHLORODIFLUOROMETHANE                                                                          |            | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    |
| CHLOROETHANE                                                                                   |            | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      |
| CHLOROFORM                                                                                     |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| CHLOROMETHANE                                                                                  |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| CIS-1,2-DICHLOROETHENE                                                                         |            | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      |
| CIS-1,3-DICHLOROPROPENE                                                                        |            | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      |
| DIBROMOMETHANE                                                                                 |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| DICHLORODIFLUOROMETHANE                                                                        |            | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      |
| DIISOPROPYL ETHER                                                                              |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| ETHYL TERT-BUTYL ETHER                                                                         |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| ETHYLBENZENE                                                                                   |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| HEXACHLOROBUTADIENE                                                                            |            | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    |
| ISOPROPYLBENZENE                                                                               |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| M+P-XYLENES                                                                                    |            | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      |
| METHYL TERT-BUTYL ETHER                                                                        |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| METHYLENE CHLORIDE                                                                             |            | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      |
| NAPHTHALENE                                                                                    |            | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      |
| N-BUTYLBENZENE                                                                                 |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| N-PROPYLBENZENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| O-XYLENE                                                                                       |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| SEC-BUTYLBENZENE                                                                               |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| STYRENE                                                                                        |            | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      |
| TERT-AMYL METHYL ETHER                                                                         |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| TERT-BUTYLBENZENE                                                                              |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TERTIARY-BUTYL ALCOHOL                                                                         |            | 1.7              | UJ  | C    | 1.7              | UJ  | C    | 1.7              | UJ  | C    | 1.7              | UJ  | C    |
| TETRACHLOROETHENE                                                                              |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TOLUENE                                                                                        |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TOTAL XYLENES                                                                                  |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TRANS-1,2-DICHLOROETHENE                                                                       |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| TRANS-1,3-DICHLOROPROPENE                                                                      |            | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      |
| TRICHLOROETHENE                                                                                |            | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW44A-070918 |     |      | MSA-SW44B-070918 |     |      | MSA-SW44C-070918 |     |      | MSA-SW44D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-29     |     |      | 240-98276-30     |     |      | 240-98276-31     |     |      | 240-98276-32     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CARBON DISULFIDE                                                                               |            | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      |
| CARBON TETRACHLORIDE                                                                           |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| CHLOROBENZENE                                                                                  |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| CHLORODIBROMOMETHANE                                                                           |            | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      |
| CHLORODIFLUOROMETHANE                                                                          |            | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    |
| CHLOROETHANE                                                                                   |            | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      |
| CHLOROFORM                                                                                     |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| CHLOROMETHANE                                                                                  |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| CIS-1,2-DICHLOROETHENE                                                                         |            | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      | 0.16             | U   |      |
| CIS-1,3-DICHLOROPROPENE                                                                        |            | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      |
| DIBROMOMETHANE                                                                                 |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| DICHLORODIFLUOROMETHANE                                                                        |            | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      |
| DIISOPROPYL ETHER                                                                              |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| ETHYL TERT-BUTYL ETHER                                                                         |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| ETHYLBENZENE                                                                                   |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| HEXACHLOROBUTADIENE                                                                            |            | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    |
| ISOPROPYLBENZENE                                                                               |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| M+P-XYLENES                                                                                    |            | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      |
| METHYL TERT-BUTYL ETHER                                                                        |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| METHYLENE CHLORIDE                                                                             |            | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      |
| NAPHTHALENE                                                                                    |            | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      |
| N-BUTYLBENZENE                                                                                 |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| N-PROPYLBENZENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| O-XYLENE                                                                                       |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| SEC-BUTYLBENZENE                                                                               |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| STYRENE                                                                                        |            | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      |
| TERT-AMYL METHYL ETHER                                                                         |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| TERT-BUTYLBENZENE                                                                              |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TERTIARY-BUTYL ALCOHOL                                                                         |            | 1.7              | UJ  | C    | 1.7              | UJ  | C    | 1.7              | UJ  | C    | 1.7              | UJ  | C    |
| TETRACHLOROETHENE                                                                              |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TOLUENE                                                                                        |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TOTAL XYLENES                                                                                  |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TRANS-1,2-DICHLOROETHENE                                                                       |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| TRANS-1,3-DICHLOROPROPENE                                                                      |            | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      |
| TRICHLOROETHENE                                                                                |            | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW45A-070918 |     |      | MSA-SW45B-070918 |     |      | MSA-SW45C-070918 |     |      | MSA-SW45D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-33     |     |      | 240-98276-34     |     |      | 240-98276-35     |     |      | 240-98276-36     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CARBON DISULFIDE                                                                               |            | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      | 0.28             | U   |      |
| CARBON TETRACHLORIDE                                                                           |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| CHLOROBENZENE                                                                                  |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| CHLORODIBROMOMETHANE                                                                           |            | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      |
| CHLORODIFLUOROMETHANE                                                                          |            | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    |
| CHLOROETHANE                                                                                   |            | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      |
| CHLOROFORM                                                                                     |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| CHLOROMETHANE                                                                                  |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| CIS-1,2-DICHLOROETHENE                                                                         |            | 0.16             | U   |      | 0.22             | J   | P    | 0.16             | U   |      | 0.16             | U   |      |
| CIS-1,3-DICHLOROPROPENE                                                                        |            | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      |
| DIBROMOMETHANE                                                                                 |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| DICHLORODIFLUOROMETHANE                                                                        |            | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      |
| DIISOPROPYL ETHER                                                                              |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| ETHYL TERT-BUTYL ETHER                                                                         |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| ETHYLBENZENE                                                                                   |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| HEXACHLOROBUTADIENE                                                                            |            | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    |
| ISOPROPYLBENZENE                                                                               |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| M+P-XYLENES                                                                                    |            | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      |
| METHYL TERT-BUTYL ETHER                                                                        |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| METHYLENE CHLORIDE                                                                             |            | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      |
| NAPHTHALENE                                                                                    |            | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      | 0.32             | U   |      |
| N-BUTYLBENZENE                                                                                 |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| N-PROPYLBENZENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| O-XYLENE                                                                                       |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| SEC-BUTYLBENZENE                                                                               |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| STYRENE                                                                                        |            | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      |
| TERT-AMYL METHYL ETHER                                                                         |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| TERT-BUTYLBENZENE                                                                              |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TERTIARY-BUTYL ALCOHOL                                                                         |            | 1.7              | UJ  | C    | 1.7              | UJ  | C    | 1.7              | UJ  | C    | 1.7              | UJ  | C    |
| TETRACHLOROETHENE                                                                              |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TOLUENE                                                                                        |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TOTAL XYLENES                                                                                  |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TRANS-1,2-DICHLOROETHENE                                                                       |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| TRANS-1,3-DICHLOROPROPENE                                                                      |            | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      |
| TRICHLOROETHENE                                                                                |            | 0.1              | U   |      | 0.13             | J   | P    | 0.1              | U   |      | 0.1              | U   |      |



|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW46A-070918 |     |      | MSA-SW47A-070918 |     |      | MSA-SW48A-070918 |     |      | MSA-SW49A-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-42     |     |      | 240-98276-43     |     |      | 240-98276-44     |     |      | 240-98276-45     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CARBON DISULFIDE                                                                               |            | 0.28             | UJ  | C    | 0.28             | UJ  | C    | 0.28             | UJ  | C    | 0.28             | UJ  | C    |
| CARBON TETRACHLORIDE                                                                           |            | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      | 0.26             | U   |      |
| CHLOROBENZENE                                                                                  |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| CHLORODIBROMOMETHANE                                                                           |            | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      | 0.39             | U   |      |
| CHLORODIFLUOROMETHANE                                                                          |            | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    | 1                | UJ  | Q    |
| CHLOROETHANE                                                                                   |            | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      | 0.83             | U   |      |
| CHLOROFORM                                                                                     |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| CHLOROMETHANE                                                                                  |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| CIS-1,2-DICHLOROETHENE                                                                         |            | 0.18             | J   | P    | 0.21             | J   | P    | 0.27             | J   | P    | 0.29             | J   | P    |
| CIS-1,3-DICHLOROPROPENE                                                                        |            | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      | 0.61             | U   |      |
| DIBROMOMETHANE                                                                                 |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| DICHLORODIFLUOROMETHANE                                                                        |            | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      | 0.35             | U   |      |
| DIISOPROPYL ETHER                                                                              |            | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      | 0.17             | U   |      |
| ETHYL TERT-BUTYL ETHER                                                                         |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| ETHYLBENZENE                                                                                   |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| HEXACHLOROBUTADIENE                                                                            |            | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    | 0.83             | UJ  | C    |
| ISOPROPYLBENZENE                                                                               |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| M+P-XYLENES                                                                                    |            | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      | 0.08             | U   |      |
| METHYL TERT-BUTYL ETHER                                                                        |            | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      | 0.07             | U   |      |
| METHYLENE CHLORIDE                                                                             |            | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      | 2.6              | U   |      |
| NAPHTHALENE                                                                                    |            | 0.32             | UJ  | C    | 0.32             | UJ  | C    | 0.32             | UJ  | C    | 0.32             | UJ  | C    |
| N-BUTYLBENZENE                                                                                 |            | 0.14             | UJ  | C    | 0.14             | UJ  | C    | 0.14             | UJ  | C    | 0.14             | UJ  | C    |
| N-PROPYLBENZENE                                                                                |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| O-XYLENE                                                                                       |            | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      | 0.09             | U   |      |
| SEC-BUTYLBENZENE                                                                               |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| STYRENE                                                                                        |            | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      |
| TERT-AMYL METHYL ETHER                                                                         |            | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      | 0.11             | U   |      |
| TERT-BUTYLBENZENE                                                                              |            | 0.14             | UJ  | C    | 0.14             | UJ  | C    | 0.14             | UJ  | C    | 0.14             | UJ  | C    |
| TERTIARY-BUTYL ALCOHOL                                                                         |            | 1.7              | U   |      | 1.7              | U   |      | 1.7              | U   |      | 1.7              | U   |      |
| TETRACHLOROETHENE                                                                              |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TOLUENE                                                                                        |            | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      | 0.14             | U   |      |
| TOTAL XYLENES                                                                                  |            | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      | 0.15             | U   |      |
| TRANS-1,2-DICHLOROETHENE                                                                       |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| TRANS-1,3-DICHLOROPROPENE                                                                      |            | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      | 0.67             | U   |      |
| TRICHLOROETHENE                                                                                |            | 0.1              | U   |      | 0.1              | U   |      | 0.1              | U   |      | 0.13             | J   | P    |

|                                                                                                |            |              |     |      |
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| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | TB-070918    |     |      |
|                                                                                                | LAB_ID     | 240-98276-41 |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018     |     |      |
|                                                                                                | QC_TYPE    | TB           |     |      |
|                                                                                                | UNITS      | UG/L         |     |      |
|                                                                                                | PCT_SOLIDS | 0.0          |     |      |
|                                                                                                | DUP_OF     |              |     |      |
| PARAMETER                                                                                      |            | RESULT       | VQL | QLCD |
| CARBON DISULFIDE                                                                               |            | 0.28         | UJ  | C    |
| CARBON TETRACHLORIDE                                                                           |            | 0.26         | U   |      |
| CHLOROBENZENE                                                                                  |            | 0.14         | U   |      |
| CHLORODIBROMOMETHANE                                                                           |            | 0.39         | U   |      |
| CHLORODIFLUOROMETHANE                                                                          |            | 1            | UJ  | Q    |
| CHLOROETHANE                                                                                   |            | 0.83         | U   |      |
| CHLOROFORM                                                                                     |            | 0.13         | U   |      |
| CHLOROMETHANE                                                                                  |            | 0.2          | U   |      |
| CIS-1,2-DICHLOROETHENE                                                                         |            | 0.16         | U   |      |
| CIS-1,3-DICHLOROPROPENE                                                                        |            | 0.61         | U   |      |
| DIBROMOMETHANE                                                                                 |            | 0.09         | U   |      |
| DICHLORODIFLUOROMETHANE                                                                        |            | 0.35         | U   |      |
| DIISOPROPYL ETHER                                                                              |            | 0.17         | U   |      |
| ETHYL TERT-BUTYL ETHER                                                                         |            | 0.15         | U   |      |
| ETHYLBENZENE                                                                                   |            | 0.11         | U   |      |
| HEXACHLOROBUTADIENE                                                                            |            | 0.83         | UJ  | C    |
| ISOPROPYLBENZENE                                                                               |            | 0.09         | U   |      |
| M+P-XYLENES                                                                                    |            | 0.08         | U   |      |
| METHYL TERT-BUTYL ETHER                                                                        |            | 0.07         | U   |      |
| METHYLENE CHLORIDE                                                                             |            | 2.6          | U   |      |
| NAPHTHALENE                                                                                    |            | 0.32         | UJ  | C    |
| N-BUTYLBENZENE                                                                                 |            | 0.14         | UJ  | C    |
| N-PROPYLBENZENE                                                                                |            | 0.15         | U   |      |
| O-XYLENE                                                                                       |            | 0.09         | U   |      |
| SEC-BUTYLBENZENE                                                                               |            | 0.13         | U   |      |
| STYRENE                                                                                        |            | 0.1          | U   |      |
| TERT-AMYL METHYL ETHER                                                                         |            | 0.11         | U   |      |
| TERT-BUTYLBENZENE                                                                              |            | 0.14         | UJ  | C    |
| TERTIARY-BUTYL ALCOHOL                                                                         |            | 7.2          | J   | P    |
| TETRACHLOROETHENE                                                                              |            | 0.15         | U   |      |
| TOLUENE                                                                                        |            | 0.14         | U   |      |
| TOTAL XYLENES                                                                                  |            | 0.15         | U   |      |
| TRANS-1,2-DICHLOROETHENE                                                                       |            | 0.19         | U   |      |
| TRANS-1,3-DICHLOROPROPENE                                                                      |            | 0.67         | U   |      |
| TRICHLOROETHENE                                                                                |            | 0.1          | U   |      |

|                                                                                                |            |                 |     |      |                 |     |      |                 |     |      |                 |     |      |
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| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | EL-SW01A-070918 |     |      | EL-SW01B-070918 |     |      | EL-SW01C-070918 |     |      | EL-SW01D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-37    |     |      | 240-98276-38    |     |      | 240-98276-39    |     |      | 240-98276-40    |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018        |     |      | 7/9/2018        |     |      | 7/9/2018        |     |      | 7/9/2018        |     |      |
|                                                                                                | QC_TYPE    | NM              |     |      | NM              |     |      | NM              |     |      | NM              |     |      |
|                                                                                                | UNITS      | UG/L            |     |      | UG/L            |     |      | UG/L            |     |      | UG/L            |     |      |
|                                                                                                | PCT_SOLIDS | 0.0             |     |      | 0.0             |     |      | 0.0             |     |      | 0.0             |     |      |
|                                                                                                | DUP_OF     |                 |     |      |                 |     |      |                 |     |      |                 |     |      |
| PARAMETER                                                                                      |            | RESULT          | VQL | QLCD | RESULT          | VQL | QLCD | RESULT          | VQL | QLCD | RESULT          | VQL | QLCD |
| TRICHLOROFLUOROMETHANE                                                                         |            | 0.45            | U   |      | 0.45            | U   |      | 0.45            | U   |      | 0.45            | U   |      |
| VINYL ACETATE                                                                                  |            | 0.19            | UJ  | C    | 0.19            | UJ  | C    | 0.19            | UJ  | C    | 0.19            | U   |      |
| VINYL CHLORIDE                                                                                 |            | 0.2             | U   |      | 0.2             | U   |      | 0.2             | U   |      | 0.2             | UJ  | C    |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
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| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW37A-070918 |     |      | MSA-SW37B-070918 |     |      | MSA-SW37C-070918 |     |      | MSA-SW37D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-1      |     |      | 240-98276-2      |     |      | 240-98276-3      |     |      | 240-98276-4      |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| TRICHLOROFLUOROMETHANE                                                                         |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| VINYL ACETATE                                                                                  |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| VINYL CHLORIDE                                                                                 |            | 0.2              | U   |      | 0.26             | J   | P    | 0.2              | U   |      | 0.2              | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
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| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW38A-070918 |     |      | MSA-SW38B-070918 |     |      | MSA-SW38C-070918 |     |      | MSA-SW38D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-5      |     |      | 240-98276-6      |     |      | 240-98276-7      |     |      | 240-98276-8      |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| TRICHLOROFLUOROMETHANE                                                                         |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| VINYL ACETATE                                                                                  |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| VINYL CHLORIDE                                                                                 |            | 0.99             |     |      | 0.2              | UJ  | C    | 0.2              | UJ  | C    | 0.2              | UJ  | C    |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
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| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW39A-070918 |     |      | MSA-SW39B-070918 |     |      | MSA-SW39C-070918 |     |      | MSA-SW39D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-9      |     |      | 240-98276-10     |     |      | 240-98276-11     |     |      | 240-98276-12     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| TRICHLOROFLUOROMETHANE                                                                         |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| VINYL ACETATE                                                                                  |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| VINYL CHLORIDE                                                                                 |            | 0.2              | UJ  | C    | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |



|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
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| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW40A-070918 |     |      | MSA-SW40B-070918 |     |      | MSA-SW40C-070918 |     |      | MSA-SW40D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-13     |     |      | 240-98276-14     |     |      | 240-98276-15     |     |      | 240-98276-16     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| TRICHLOROFLUOROMETHANE                                                                         |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| VINYL ACETATE                                                                                  |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| VINYL CHLORIDE                                                                                 |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
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| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW41A-070918 |     |      | MSA-SW41B-070918 |     |      | MSA-SW41C-070918 |     |      | MSA-SW41D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-17     |     |      | 240-98276-18     |     |      | 240-98276-19     |     |      | 240-98276-20     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| TRICHLOROFLUOROMETHANE                                                                         |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| VINYL ACETATE                                                                                  |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| VINYL CHLORIDE                                                                                 |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
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| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW42A-070918 |     |      | MSA-SW42B-070918 |     |      | MSA-SW42C-070918 |     |      | MSA-SW42D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-21     |     |      | 240-98276-22     |     |      | 240-98276-23     |     |      | 240-98276-24     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| TRICHLOROFLUOROMETHANE                                                                         |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| VINYL ACETATE                                                                                  |            | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    |
| VINYL CHLORIDE                                                                                 |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
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| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW43A-070918 |     |      | MSA-SW43B-070918 |     |      | MSA-SW43C-070918 |     |      | MSA-SW43D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-25     |     |      | 240-98276-26     |     |      | 240-98276-27     |     |      | 240-98276-28     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| TRICHLOROFLUOROMETHANE                                                                         |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| VINYL ACETATE                                                                                  |            | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    |
| VINYL CHLORIDE                                                                                 |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW44A-070918 |     |      | MSA-SW44B-070918 |     |      | MSA-SW44C-070918 |     |      | MSA-SW44D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-29     |     |      | 240-98276-30     |     |      | 240-98276-31     |     |      | 240-98276-32     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| TRICHLOROFLUOROMETHANE                                                                         |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| VINYL ACETATE                                                                                  |            | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    |
| VINYL CHLORIDE                                                                                 |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW45A-070918 |     |      | MSA-SW45B-070918 |     |      | MSA-SW45C-070918 |     |      | MSA-SW45D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-33     |     |      | 240-98276-34     |     |      | 240-98276-35     |     |      | 240-98276-36     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| TRICHLOROFLUOROMETHANE                                                                         |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| VINYL ACETATE                                                                                  |            | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    | 0.19             | UJ  | C    |
| VINYL CHLORIDE                                                                                 |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |



|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
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| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW46A-070918 |     |      | MSA-SW47A-070918 |     |      | MSA-SW48A-070918 |     |      | MSA-SW49A-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-42     |     |      | 240-98276-43     |     |      | 240-98276-44     |     |      | 240-98276-45     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| TRICHLOROFLUOROMETHANE                                                                         |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| VINYL ACETATE                                                                                  |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| VINYL CHLORIDE                                                                                 |            | 0.2              | UJ  | C    | 0.2              | UJ  | C    | 0.2              | UJ  | C    | 0.2              | UJ  | C    |

|                                                                                                |            |              |     |      |
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| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | TB-070918    |     |      |
|                                                                                                | LAB_ID     | 240-98276-41 |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018     |     |      |
|                                                                                                | QC_TYPE    | TB           |     |      |
|                                                                                                | UNITS      | UG/L         |     |      |
|                                                                                                | PCT_SOLIDS | 0.0          |     |      |
|                                                                                                | DUP_OF     |              |     |      |
| PARAMETER                                                                                      |            | RESULT       | VQL | QLCD |
| TRICHLOROFLUOROMETHANE                                                                         |            | 0.45         | U   |      |
| VINYL ACETATE                                                                                  |            | 0.19         | U   |      |
| VINYL CHLORIDE                                                                                 |            | 0.2          | UJ  | C    |

|                                                                                                   |            |                  |     |      |
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| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: TICOV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW39B-070918 |     |      |
|                                                                                                   | LAB_ID     | 240-98276-10     |     |      |
|                                                                                                   | SAMP_DATE  | 7/9/2018         |     |      |
|                                                                                                   | QC_TYPE    | NM               |     |      |
|                                                                                                   | UNITS      | UG/L             |     |      |
|                                                                                                   | PCT_SOLIDS | 0.0              |     |      |
|                                                                                                   | DUP_OF     |                  |     |      |
| PARAMETER                                                                                         |            | RESULT           | VQL | QLCD |
| UNKNOWN                                                                                           |            | 2.9              | NJ  | Z1   |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MF</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW37A-070918 |     |      | MSA-SW37B-070918 |     |      | MSA-SW37C-070918 |     |      | MSA-SW37D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-1      |     |      | 240-98276-2      |     |      | 240-98276-3      |     |      | 240-98276-4      |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| ANTIMONY                                                                                       |            | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      |
| ARSENIC                                                                                        |            | 1.5              | J   | P    | 1.8              | J   | P    | 1.5              | J   | P    | 1.1              | J   | P    |
| BARIUM                                                                                         |            | 12               |     |      | 13               |     |      | 13               |     |      | 12               |     |      |
| BERYLLIUM                                                                                      |            | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      |
| CADMIUM                                                                                        |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| CHROMIUM                                                                                       |            | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      |
| COBALT                                                                                         |            | 0.19             | U   |      | 0.26             | J   | P    | 0.19             | U   |      | 0.19             | U   |      |
| COPPER                                                                                         |            | 5.2              |     |      | 5.7              |     |      | 5.7              |     |      | 5.2              |     |      |
| LEAD                                                                                           |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| MERCURY                                                                                        |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| MOLYBDENUM                                                                                     |            | 1.8              | J   | P    | 1.8              | J   | P    | 1.7              | J   | P    | 1.6              | J   | P    |
| NICKEL                                                                                         |            | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      |
| SELENIUM                                                                                       |            | 0.89             | U   |      | 0.98             | J   | P    | 0.89             | U   |      | 0.89             | U   |      |
| SILVER                                                                                         |            | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      |
| THALLIUM                                                                                       |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| TUNGSTEN                                                                                       |            | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      |
| VANADIUM                                                                                       |            | 1                | J   | P    | 1.1              | J   | P    | 1.2              | J   | P    | 1                | J   | P    |
| ZINC                                                                                           |            | 15               | U   |      | 15               | U   |      | 15               | U   |      | 15               | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MF</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW38A-070918 |     |      | MSA-SW38B-070918 |     |      | MSA-SW38C-070918 |     |      | MSA-SW38D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-5      |     |      | 240-98276-6      |     |      | 240-98276-7      |     |      | 240-98276-8      |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| ANTIMONY                                                                                       |            | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      |
| ARSENIC                                                                                        |            | 1.5              | J   | P    | 1.4              | J   | P    | 1.4              | J   | P    | 1.4              | J   | P    |
| BARIUM                                                                                         |            | 12               |     |      | 13               |     |      | 14               |     |      | 12               |     |      |
| BERYLLIUM                                                                                      |            | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      |
| CADMIUM                                                                                        |            | 0.21             | U   |      | 0.21             | U   |      | 0.25             | J   | P    | 0.21             | U   |      |
| CHROMIUM                                                                                       |            | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      |
| COBALT                                                                                         |            | 0.38             | J   | P    | 0.35             | J   | P    | 0.48             | J   | P    | 0.19             | U   |      |
| COPPER                                                                                         |            | 5.5              |     |      | 6.3              |     |      | 5.6              |     |      | 5.6              |     |      |
| LEAD                                                                                           |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| MERCURY                                                                                        |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| MOLYBDENUM                                                                                     |            | 1.6              | J   | P    | 1.6              | J   | P    | 1.7              | J   | P    | 1.6              | J   | P    |
| NICKEL                                                                                         |            | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      |
| SELENIUM                                                                                       |            | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      |
| SILVER                                                                                         |            | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      |
| THALLIUM                                                                                       |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| TUNGSTEN                                                                                       |            | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      |
| VANADIUM                                                                                       |            | 0.96             | J   | P    | 1.1              | J   | P    | 1                | J   | P    | 0.94             | J   | P    |
| ZINC                                                                                           |            | 15               | U   |      | 15               | U   |      | 15               | U   |      | 15               | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MF</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW39A-070918 |     |      | MSA-SW39B-070918 |     |      | MSA-SW39C-070918 |     |      | MSA-SW39D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-9      |     |      | 240-98276-10     |     |      | 240-98276-11     |     |      | 240-98276-12     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| ANTIMONY                                                                                       |            | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      |
| ARSENIC                                                                                        |            | 1.2              | J   | P    | 1.2              | J   | P    | 1.1              | J   | P    | 1.4              | J   | P    |
| BARIUM                                                                                         |            | 14               |     |      | 14               |     |      | 14               |     |      | 14               |     |      |
| BERYLLIUM                                                                                      |            | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      |
| CADMIUM                                                                                        |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| CHROMIUM                                                                                       |            | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      |
| COBALT                                                                                         |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| COPPER                                                                                         |            | 4.2              |     |      | 5                |     |      | 5.2              |     |      | 5.6              |     |      |
| LEAD                                                                                           |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| MERCURY                                                                                        |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| MOLYBDENUM                                                                                     |            | 1.6              | J   | P    | 1.7              | J   | P    | 1.7              | J   | P    | 1.6              | J   | P    |
| NICKEL                                                                                         |            | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      |
| SELENIUM                                                                                       |            | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      |
| SILVER                                                                                         |            | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      |
| THALLIUM                                                                                       |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| TUNGSTEN                                                                                       |            | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      |
| VANADIUM                                                                                       |            | 0.82             | U   |      | 0.82             | U   |      | 0.93             | J   | P    | 0.82             | J   | P    |
| ZINC                                                                                           |            | 15               | U   |      | 15               | U   |      | 15               | U   |      | 15               | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MF</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW40A-070918 |     |      | MSA-SW40B-070918 |     |      | MSA-SW40C-070918 |     |      | MSA-SW40D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-13     |     |      | 240-98276-14     |     |      | 240-98276-15     |     |      | 240-98276-16     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| ANTIMONY                                                                                       |            | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      |
| ARSENIC                                                                                        |            | 1.3              | J   | P    | 1.5              | J   | P    | 1.4              | J   | P    | 1.8              | J   | P    |
| BARIUM                                                                                         |            | 12               |     |      | 13               |     |      | 14               |     |      | 14               |     |      |
| BERYLLIUM                                                                                      |            | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      |
| CADMIUM                                                                                        |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| CHROMIUM                                                                                       |            | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      | 1.2              | J   | P    |
| COBALT                                                                                         |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.36             | J   | P    |
| COPPER                                                                                         |            | 5.2              |     |      | 5.8              |     |      | 6                |     |      | 8.3              |     |      |
| LEAD                                                                                           |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.92             | J   | P    |
| MERCURY                                                                                        |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| MOLYBDENUM                                                                                     |            | 1.6              | J   | P    | 1.7              | J   | P    | 1.7              | J   | P    | 1.7              | J   | P    |
| NICKEL                                                                                         |            | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      |
| SELENIUM                                                                                       |            | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      |
| SILVER                                                                                         |            | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      |
| THALLIUM                                                                                       |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| TUNGSTEN                                                                                       |            | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      |
| VANADIUM                                                                                       |            | 0.93             | J   | P    | 1.1              | J   | P    | 1.1              | J   | P    | 1.4              | J   | P    |
| ZINC                                                                                           |            | 15               | U   |      | 15               | U   |      | 15               | U   |      | 15               | U   |      |



|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MF</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW41A-070918 |     |      | MSA-SW41B-070918 |     |      | MSA-SW41C-070918 |     |      | MSA-SW41D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-17     |     |      | 240-98276-18     |     |      | 240-98276-19     |     |      | 240-98276-20     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| ANTIMONY                                                                                       |            | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      |
| ARSENIC                                                                                        |            | 1.5              | J   | P    | 1.2              | J   | P    | 1.5              | J   | P    | 1.2              | J   | P    |
| BARIUM                                                                                         |            | 13               |     |      | 13               |     |      | 13               |     |      | 13               |     |      |
| BERYLLIUM                                                                                      |            | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      |
| CADMIUM                                                                                        |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| CHROMIUM                                                                                       |            | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      |
| COBALT                                                                                         |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| COPPER                                                                                         |            | 5.8              |     |      | 5.7              |     |      | 5.5              |     |      | 5.3              |     |      |
| LEAD                                                                                           |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| MERCURY                                                                                        |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| MOLYBDENUM                                                                                     |            | 1.7              | J   | P    | 1.7              | J   | P    | 1.7              | J   | P    | 1.7              | J   | P    |
| NICKEL                                                                                         |            | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      |
| SELENIUM                                                                                       |            | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      |
| SILVER                                                                                         |            | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      |
| THALLIUM                                                                                       |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| TUNGSTEN                                                                                       |            | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      |
| VANADIUM                                                                                       |            | 0.92             | J   | P    | 1                | J   | P    | 0.86             | J   | P    | 0.97             | J   | P    |
| ZINC                                                                                           |            | 15               | U   |      | 15               | U   |      | 15               | U   |      | 15               | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MF</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW42A-070918 |     |      | MSA-SW42B-070918 |     |      | MSA-SW42C-070918 |     |      | MSA-SW42D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-21     |     |      | 240-98276-22     |     |      | 240-98276-23     |     |      | 240-98276-24     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| ANTIMONY                                                                                       |            | 0.57             | U   |      | 0.61             | J   | P    | 0.57             | U   |      | 0.57             | U   |      |
| ARSENIC                                                                                        |            | 1.7              | J   | P    | 1.7              | J   | P    | 1.6              | J   | P    | 1.4              | J   | P    |
| BARIUM                                                                                         |            | 13               |     |      | 13               |     |      | 12               |     |      | 13               |     |      |
| BERYLLIUM                                                                                      |            | 0.44             | J   | P    | 0.88             | J   | P    | 0.55             | J   | P    | 0.31             | U   |      |
| CADMIUM                                                                                        |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| CHROMIUM                                                                                       |            | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      |
| COBALT                                                                                         |            | 0.33             | J   | P    | 0.31             | J   | P    | 0.19             | U   |      | 0.19             | U   |      |
| COPPER                                                                                         |            | 6.7              |     |      | 5.5              |     |      | 5.4              |     |      | 5.6              |     |      |
| LEAD                                                                                           |            | 0.6              | J   | P    | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| MERCURY                                                                                        |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| MOLYBDENUM                                                                                     |            | 1.8              | J   | P    | 1.8              | J   | P    | 1.6              | J   | P    | 1.7              | J   | P    |
| NICKEL                                                                                         |            | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      |
| SELENIUM                                                                                       |            | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      |
| SILVER                                                                                         |            | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      |
| THALLIUM                                                                                       |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| TUNGSTEN                                                                                       |            | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      |
| VANADIUM                                                                                       |            | 1.4              | J   | P    | 1                | J   | P    | 1                | J   | P    | 0.97             | J   | P    |
| ZINC                                                                                           |            | 15               | U   |      | 15               | U   |      | 15               | U   |      | 15               | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MF</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW43A-070918 |     |      | MSA-SW43B-070918 |     |      | MSA-SW43C-070918 |     |      | MSA-SW43D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-25     |     |      | 240-98276-26     |     |      | 240-98276-27     |     |      | 240-98276-28     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| ANTIMONY                                                                                       |            | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      |
| ARSENIC                                                                                        |            | 1.4              | J   | P    | 1.2              | J   | P    | 1.4              | J   | P    | 1.4              | J   | P    |
| BARIUM                                                                                         |            | 13               |     |      | 13               |     |      | 13               |     |      | 13               |     |      |
| BERYLLIUM                                                                                      |            | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      |
| CADMIUM                                                                                        |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| CHROMIUM                                                                                       |            | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      |
| COBALT                                                                                         |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| COPPER                                                                                         |            | 5.8              |     |      | 5.8              |     |      | 5.5              |     |      | 5.8              |     |      |
| LEAD                                                                                           |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| MERCURY                                                                                        |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| MOLYBDENUM                                                                                     |            | 1.6              | J   | P    | 1.7              | J   | P    | 1.7              | J   | P    | 1.7              | J   | P    |
| NICKEL                                                                                         |            | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      |
| SELENIUM                                                                                       |            | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      |
| SILVER                                                                                         |            | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      |
| THALLIUM                                                                                       |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| TUNGSTEN                                                                                       |            | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      |
| VANADIUM                                                                                       |            | 0.93             | J   | P    | 0.98             | J   | P    | 1                | J   | P    | 0.99             | J   | P    |
| ZINC                                                                                           |            | 15               | U   |      | 15               | U   |      | 15               | U   |      | 15               | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MF</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW44A-070918 |     |      | MSA-SW44B-070918 |     |      | MSA-SW44C-070918 |     |      | MSA-SW44D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-29     |     |      | 240-98276-30     |     |      | 240-98276-31     |     |      | 240-98276-32     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| ANTIMONY                                                                                       |            | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      |
| ARSENIC                                                                                        |            | 1.2              | J   | P    | 1.1              | J   | P    | 1.1              | J   | P    | 1.3              | J   | P    |
| BARIUM                                                                                         |            | 13               |     |      | 13               |     |      | 12               |     |      | 14               |     |      |
| BERYLLIUM                                                                                      |            | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      |
| CADMIUM                                                                                        |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| CHROMIUM                                                                                       |            | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      |
| COBALT                                                                                         |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| COPPER                                                                                         |            | 5.6              |     |      | 5.5              |     |      | 5.9              |     |      | 5.7              |     |      |
| LEAD                                                                                           |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| MERCURY                                                                                        |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| MOLYBDENUM                                                                                     |            | 1.7              | J   | P    | 1.7              | J   | P    | 1.5              | J   | P    | 1.7              | J   | P    |
| NICKEL                                                                                         |            | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      |
| SELENIUM                                                                                       |            | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      |
| SILVER                                                                                         |            | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      |
| THALLIUM                                                                                       |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| TUNGSTEN                                                                                       |            | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      |
| VANADIUM                                                                                       |            | 0.96             | J   | P    | 0.96             | J   | P    | 0.82             | J   | P    | 0.82             | U   |      |
| ZINC                                                                                           |            | 15               | U   |      | 15               | U   |      | 15               | U   |      | 15               | U   |      |

|                                                                                                |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MF</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW45A-070918 |     |      | MSA-SW45B-070918 |     |      | MSA-SW45C-070918 |     |      | MSA-SW45D-070918 |     |      |
|                                                                                                | LAB_ID     | 240-98276-33     |     |      | 240-98276-34     |     |      | 240-98276-35     |     |      | 240-98276-36     |     |      |
|                                                                                                | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                                | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                      |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| ANTIMONY                                                                                       |            | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      | 0.57             | U   |      |
| ARSENIC                                                                                        |            | 1.1              | J   | P    | 1.3              | J   | P    | 1.3              | J   | P    | 1.4              | J   | P    |
| BARIUM                                                                                         |            | 13               |     |      | 14               |     |      | 13               |     |      | 14               |     |      |
| BERYLLIUM                                                                                      |            | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      | 0.31             | U   |      |
| CADMIUM                                                                                        |            | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      | 0.21             | U   |      |
| CHROMIUM                                                                                       |            | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      | 0.98             | U   |      |
| COBALT                                                                                         |            | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      | 0.19             | U   |      |
| COPPER                                                                                         |            | 4.4              |     |      | 5.4              |     |      | 5.3              |     |      | 5.8              |     |      |
| LEAD                                                                                           |            | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      | 0.45             | U   |      |
| MERCURY                                                                                        |            | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      | 0.13             | U   |      |
| MOLYBDENUM                                                                                     |            | 1.5              | J   | P    | 1.7              | J   | P    | 1.7              | J   | P    | 1.7              | J   | P    |
| NICKEL                                                                                         |            | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      | 1.5              | U   |      |
| SELENIUM                                                                                       |            | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      | 0.89             | U   |      |
| SILVER                                                                                         |            | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      | 0.053            | U   |      |
| THALLIUM                                                                                       |            | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      | 0.2              | U   |      |
| TUNGSTEN                                                                                       |            | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      | 1.8              | U   |      |
| VANADIUM                                                                                       |            | 0.82             | U   |      | 0.82             | U   |      | 0.83             | J   | P    | 0.9              | J   | P    |
| ZINC                                                                                           |            | 15               | U   |      | 15               | U   |      | 15               | U   |      | 15               | U   |      |

|                                                                                                  |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|--------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW37A-070918 |     |      | MSA-SW37B-070918 |     |      | MSA-SW37C-070918 |     |      | MSA-SW37D-070918 |     |      |
|                                                                                                  | LAB_ID     | 240-98276-1      |     |      | 240-98276-2      |     |      | 240-98276-3      |     |      | 240-98276-4      |     |      |
|                                                                                                  | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                  | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                  | UNITS      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      |
|                                                                                                  | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                  | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                        |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CALCIUM HARDNESS AS CaCO3                                                                        |            | 60               |     |      | 61               |     |      | 61               |     |      | 58               |     |      |
| HARDNESS AS CaCO3                                                                                |            | 230              |     |      | 240              |     |      | 240              |     |      | 220              |     |      |
| MAGNESIUM HARDNESS AS CaCO3                                                                      |            | 170              |     |      | 180              |     |      | 170              |     |      | 160              |     |      |

|                                                                                                  |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|--------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW38A-070918 |     |      | MSA-SW38B-070918 |     |      | MSA-SW38C-070918 |     |      | MSA-SW38D-070918 |     |      |
|                                                                                                  | LAB_ID     | 240-98276-5      |     |      | 240-98276-6      |     |      | 240-98276-7      |     |      | 240-98276-8      |     |      |
|                                                                                                  | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                  | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                  | UNITS      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      |
|                                                                                                  | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                  | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                        |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CALCIUM HARDNESS AS CaCO3                                                                        |            | 59               |     |      | 62               |     |      | 63               |     |      | 60               |     |      |
| HARDNESS AS CaCO3                                                                                |            | 230              |     |      | 240              |     |      | 250              |     |      | 230              |     |      |
| MAGNESIUM HARDNESS AS CaCO3                                                                      |            | 170              |     |      | 180              |     |      | 180              |     |      | 170              |     |      |



|                                                                                                  |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|--------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW39A-070918 |     |      | MSA-SW39B-070918 |     |      | MSA-SW39C-070918 |     |      | MSA-SW39D-070918 |     |      |
|                                                                                                  | LAB_ID     | 240-98276-9      |     |      | 240-98276-10     |     |      | 240-98276-11     |     |      | 240-98276-12     |     |      |
|                                                                                                  | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                  | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                  | UNITS      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      |
|                                                                                                  | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                  | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                        |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CALCIUM HARDNESS AS CaCO3                                                                        |            | 60               |     |      | 64               |     |      | 65               |     |      | 63               |     |      |
| HARDNESS AS CaCO3                                                                                |            | 240              |     |      | 260              |     |      | 270              |     |      | 250              |     |      |
| MAGNESIUM HARDNESS AS CaCO3                                                                      |            | 180              |     |      | 200              |     |      | 200              |     |      | 190              |     |      |

|                                                                                                  |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|--------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW40A-070918 |     |      | MSA-SW40B-070918 |     |      | MSA-SW40C-070918 |     |      | MSA-SW40D-070918 |     |      |
|                                                                                                  | LAB_ID     | 240-98276-13     |     |      | 240-98276-14     |     |      | 240-98276-15     |     |      | 240-98276-16     |     |      |
|                                                                                                  | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                  | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                  | UNITS      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      |
|                                                                                                  | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                  | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                        |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CALCIUM HARDNESS AS CaCO3                                                                        |            | 59               |     |      | 61               |     |      | 61               |     |      | 60               |     |      |
| HARDNESS AS CaCO3                                                                                |            | 230              |     |      | 240              |     |      | 240              |     |      | 230              |     |      |
| MAGNESIUM HARDNESS AS CaCO3                                                                      |            | 170              |     |      | 180              |     |      | 180              |     |      | 170              |     |      |

|                                                                                                  |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|--------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW41A-070918 |     |      | MSA-SW41B-070918 |     |      | MSA-SW41C-070918 |     |      | MSA-SW41D-070918 |     |      |
|                                                                                                  | LAB_ID     | 240-98276-17     |     |      | 240-98276-18     |     |      | 240-98276-19     |     |      | 240-98276-20     |     |      |
|                                                                                                  | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                  | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                  | UNITS      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      |
|                                                                                                  | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                  | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                        |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CALCIUM HARDNESS AS CaCO3                                                                        |            | 63               |     |      | 62               |     |      | 62               |     |      | 60               |     |      |
| HARDNESS AS CaCO3                                                                                |            | 250              |     |      | 250              |     |      | 240              |     |      | 230              |     |      |
| MAGNESIUM HARDNESS AS CaCO3                                                                      |            | 180              |     |      | 180              |     |      | 180              |     |      | 170              |     |      |

|                                                                                                  |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|--------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW42A-070918 |     |      | MSA-SW42B-070918 |     |      | MSA-SW42C-070918 |     |      | MSA-SW42D-070918 |     |      |
|                                                                                                  | LAB_ID     | 240-98276-21     |     |      | 240-98276-22     |     |      | 240-98276-23     |     |      | 240-98276-24     |     |      |
|                                                                                                  | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                  | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                  | UNITS      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      |
|                                                                                                  | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                  | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                        |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CALCIUM HARDNESS AS CaCO3                                                                        |            | 62               |     |      | 60               |     |      | 59               |     |      | 61               |     |      |
| HARDNESS AS CaCO3                                                                                |            | 250              |     |      | 240              |     |      | 230              |     |      | 240              |     |      |
| MAGNESIUM HARDNESS AS CaCO3                                                                      |            | 180              |     |      | 180              |     |      | 170              |     |      | 180              |     |      |

|                                                                                                  |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|--------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW43A-070918 |     |      | MSA-SW43B-070918 |     |      | MSA-SW43C-070918 |     |      | MSA-SW43D-070918 |     |      |
|                                                                                                  | LAB_ID     | 240-98276-25     |     |      | 240-98276-26     |     |      | 240-98276-27     |     |      | 240-98276-28     |     |      |
|                                                                                                  | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                  | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                  | UNITS      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      |
|                                                                                                  | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                  | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                        |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CALCIUM HARDNESS AS CaCO3                                                                        |            | 60               |     |      | 62               |     |      | 62               |     |      | 61               |     |      |
| HARDNESS AS CaCO3                                                                                |            | 240              |     |      | 250              |     |      | 250              |     |      | 240              |     |      |
| MAGNESIUM HARDNESS AS CaCO3                                                                      |            | 180              |     |      | 180              |     |      | 180              |     |      | 180              |     |      |

|                                                                                                  |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|--------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW44A-070918 |     |      | MSA-SW44B-070918 |     |      | MSA-SW44C-070918 |     |      | MSA-SW44D-070918 |     |      |
|                                                                                                  | LAB_ID     | 240-98276-29     |     |      | 240-98276-30     |     |      | 240-98276-31     |     |      | 240-98276-32     |     |      |
|                                                                                                  | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                  | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                  | UNITS      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      |
|                                                                                                  | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                  | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                        |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CALCIUM HARDNESS AS CaCO3                                                                        |            | 64               |     |      | 63               |     |      | 58               |     |      | 65               |     |      |
| HARDNESS AS CaCO3                                                                                |            | 260              |     |      | 250              |     |      | 230              |     |      | 260              |     |      |
| MAGNESIUM HARDNESS AS CaCO3                                                                      |            | 190              |     |      | 190              |     |      | 170              |     |      | 190              |     |      |

|                                                                                                  |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|--------------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: 240-98276-1</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW45A-070918 |     |      | MSA-SW45B-070918 |     |      | MSA-SW45C-070918 |     |      | MSA-SW45D-070918 |     |      |
|                                                                                                  | LAB_ID     | 240-98276-33     |     |      | 240-98276-34     |     |      | 240-98276-35     |     |      | 240-98276-36     |     |      |
|                                                                                                  | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                                  | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                                  | UNITS      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      | MG/L             |     |      |
|                                                                                                  | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                                  | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                        |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| CALCIUM HARDNESS AS CaCO3                                                                        |            | 58               |     |      | 64               |     |      | 64               |     |      | 62               |     |      |
| HARDNESS AS CaCO3                                                                                |            | 240              |     |      | 250              |     |      | 260              |     |      | 250              |     |      |
| MAGNESIUM HARDNESS AS CaCO3                                                                      |            | 180              |     |      | 190              |     |      | 190              |     |      | 190              |     |      |



## **Appendix B**

Results as Reported by the Laboratory

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW37A-070918 Lab Sample ID: 240-98276-1

Matrix: Water Lab File ID: U1900642.d

Analysis Method: 8260C Date Collected: 07/09/2018 13:00

Sample wt/vol: 5(mL) Date Analyzed: 07/15/2018 17:30

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.: 336272 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW37A-070918</u> | Lab Sample ID: <u>240-98276-1</u>             |
| Matrix: <u>Water</u>                      | Lab File ID: <u>U1900642.d</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 13:00</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/15/2018 17:30</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>336272</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 0.26   | J | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.16   | J | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 0.23   | J | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 0.39   | J | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 0.23   | J | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW37A-070918 Lab Sample ID: 240-98276-1  
 Matrix: Water Lab File ID: U1900642.d  
 Analysis Method: 8260C Date Collected: 07/09/2018 13:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 17:30  
 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.: 336272 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 108  |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 107  |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 107  |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 102  |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW37A-070918 Lab Sample ID: 240-98276-1  
Matrix: Water Lab File ID: U1900642.d  
Analysis Method: 8260C Date Collected: 07/09/2018 13:00  
Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 17:30  
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.: 336272 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW37A-070918 Lab Sample ID: 240-98276-1  
Matrix: Water Lab File ID: U1900642.d  
Analysis Method: 8260C Date Collected: 07/09/2018 13:00  
Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 17:30  
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.: 336272 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW37B-070918</u> | Lab Sample ID: <u>240-98276-2</u>             |
| Matrix: <u>Water</u>                      | Lab File ID: <u>U1900643.d</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 13:05</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/15/2018 17:52</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>336272</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW37B-070918</u> | Lab Sample ID: <u>240-98276-2</u>             |
| Matrix: <u>Water</u>                      | Lab File ID: <u>U1900643.d</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 13:05</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/15/2018 17:52</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>336272</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.23   | J | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 0.14   | J | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 0.25   | J | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 0.11   | J | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.26   | J | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW37B-070918 Lab Sample ID: 240-98276-2  
 Matrix: Water Lab File ID: U1900643.d  
 Analysis Method: 8260C Date Collected: 07/09/2018 13:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 17:52  
 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.: 336272 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 104  |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 107  |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 105  |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 69-124 |

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

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW37B-070918</u> | Lab Sample ID: <u>240-98276-2</u>             |
| Matrix: <u>Water</u>                      | Lab File ID: <u>U1900643.d</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 13:05</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/15/2018 17:52</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>336272</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>               | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW37B-070918 Lab Sample ID: 240-98276-2  
Matrix: Water Lab File ID: U1900643.d  
Analysis Method: 8260C Date Collected: 07/09/2018 13:05  
Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 17:52  
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.: 336272 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW37C-070918 Lab Sample ID: 240-98276-3

Matrix: Water Lab File ID: U1900644.d

Analysis Method: 8260C Date Collected: 07/09/2018 13:09

Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 18:14

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.: 336272 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW37C-070918</u> | Lab Sample ID: <u>240-98276-3</u>             |
| Matrix: <u>Water</u>                      | Lab File ID: <u>U1900644.d</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 13:09</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/15/2018 18:14</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>336272</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.18   | J | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 0.11   | J | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW37C-070918 Lab Sample ID: 240-98276-3  
 Matrix: Water Lab File ID: U1900644.d  
 Analysis Method: 8260C Date Collected: 07/09/2018 13:09  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 18:14  
 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.: 336272 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101  |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 105  |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 103  |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 69-124 |

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

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW37C-070918</u> | Lab Sample ID: <u>240-98276-3</u>             |
| Matrix: <u>Water</u>                      | Lab File ID: <u>U1900644.d</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 13:09</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/15/2018 18:14</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>336272</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>               | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW37C-070918 Lab Sample ID: 240-98276-3  
Matrix: Water Lab File ID: U1900644.d  
Analysis Method: 8260C Date Collected: 07/09/2018 13:09  
Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 18:14  
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.: 336272 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW37D-070918</u> | Lab Sample ID: <u>240-98276-4</u>             |
| Matrix: <u>Water</u>                      | Lab File ID: <u>U1900645.d</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 13:15</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/15/2018 18:36</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>336272</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW37D-070918</u> | Lab Sample ID: <u>240-98276-4</u>             |
| Matrix: <u>Water</u>                      | Lab File ID: <u>U1900645.d</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 13:15</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/15/2018 18:36</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>336272</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW37D-070918 Lab Sample ID: 240-98276-4  
 Matrix: Water Lab File ID: U1900645.d  
 Analysis Method: 8260C Date Collected: 07/09/2018 13:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 18:36  
 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.: 336272 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 100  |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 109  |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 106  |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW37D-070918 Lab Sample ID: 240-98276-4  
Matrix: Water Lab File ID: U1900645.d  
Analysis Method: 8260C Date Collected: 07/09/2018 13:15  
Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 18:36  
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.: 336272 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW37D-070918 Lab Sample ID: 240-98276-4  
Matrix: Water Lab File ID: U1900645.d  
Analysis Method: 8260C Date Collected: 07/09/2018 13:15  
Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 18:36  
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.: 336272 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                  |
| SDG No.: _____                            |                                              |
| Client Sample ID: <u>MSA-SW38A-070918</u> | Lab Sample ID: <u>240-98276-5</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>U1900646.d</u>               |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:47</u>      |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/15/2018 18:58</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>336272</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW38A-070918</u> | Lab Sample ID: <u>240-98276-5</u>             |
| Matrix: <u>Water</u>                      | Lab File ID: <u>U1900646.d</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:47</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/15/2018 18:58</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>336272</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.72   | J | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 0.15   | J | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.99   |   | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW38A-070918 Lab Sample ID: 240-98276-5  
 Matrix: Water Lab File ID: U1900646.d  
 Analysis Method: 8260C Date Collected: 07/09/2018 11:47  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 18:58  
 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.: 336272 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 105  |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 102  |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 95   |   | 69-124 |



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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW38A-070918 Lab Sample ID: 240-98276-5  
Matrix: Water Lab File ID: U1900646.d  
Analysis Method: 8260C Date Collected: 07/09/2018 11:47  
Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 18:58  
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.: 336272 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW38A-070918 Lab Sample ID: 240-98276-5  
Matrix: Water Lab File ID: U1900646.d  
Analysis Method: 8260C Date Collected: 07/09/2018 11:47  
Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 18:58  
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.: 336272 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW38B-070918 Lab Sample ID: 240-98276-6

Matrix: Water Lab File ID: UXM12747.D

Analysis Method: 8260C Date Collected: 07/09/2018 11:51

Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 19:08

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.: 336777 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW38B-070918</u> | Lab Sample ID: <u>240-98276-6</u>             |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12747.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:51</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/18/2018 19:08</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>336777</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW38B-070918 Lab Sample ID: 240-98276-6  
 Matrix: Water Lab File ID: UXM12747.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 11:51  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 19:08  
 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.: 336777 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 89   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 94   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW38B-070918 Lab Sample ID: 240-98276-6  
Matrix: Water Lab File ID: UXM12747.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:51  
Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 19:08  
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.: 336777 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW38B-070918 Lab Sample ID: 240-98276-6  
Matrix: Water Lab File ID: UXM12747.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:51  
Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 19:08  
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.: 336777 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW38C-070918 Lab Sample ID: 240-98276-7

Matrix: Water Lab File ID: UXM12748.D

Analysis Method: 8260C Date Collected: 07/09/2018 11:56

Sample wt/vol: 5(mL) Date Analyzed: 07/18/2018 19:32

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.: 336777 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW38C-070918</u> | Lab Sample ID: <u>240-98276-7</u>             |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12748.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:56</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/18/2018 19:32</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>336777</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.20   | J | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW38C-070918 Lab Sample ID: 240-98276-7  
 Matrix: Water Lab File ID: UXM12748.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 11:56  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 19:32  
 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.: 336777 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 89   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 84   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 90   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW38C-070918 Lab Sample ID: 240-98276-7  
Matrix: Water Lab File ID: UXM12748.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:56  
Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 19:32  
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.: 336777 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW38C-070918 Lab Sample ID: 240-98276-7  
Matrix: Water Lab File ID: UXM12748.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:56  
Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 19:32  
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.: 336777 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW38D-070918 Lab Sample ID: 240-98276-8

Matrix: Water Lab File ID: UXM12749.D

Analysis Method: 8260C Date Collected: 07/09/2018 12:03

Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 19:56

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

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

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 336777 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                  |
| SDG No.: _____                            |                                              |
| Client Sample ID: <u>MSA-SW38D-070918</u> | Lab Sample ID: <u>240-98276-8</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12749.D</u>               |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:03</u>      |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/18/2018 19:56</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>336777</u>         | Units: <u>ug/L</u>                           |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW38D-070918 Lab Sample ID: 240-98276-8  
 Matrix: Water Lab File ID: UXM12749.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 12:03  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 19:56  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 336777 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 92   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW38D-070918 Lab Sample ID: 240-98276-8  
Matrix: Water Lab File ID: UXM12749.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:03  
Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 19:56  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 336777 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |



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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW38D-070918 Lab Sample ID: 240-98276-8  
Matrix: Water Lab File ID: UXM12749.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:03  
Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 19:56  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 336777 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW39A-070918 Lab Sample ID: 240-98276-9

Matrix: Water Lab File ID: UXM12750.D

Analysis Method: 8260C Date Collected: 07/09/2018 09:38

Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 20:20

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.: 336777 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW39A-070918</u> | Lab Sample ID: <u>240-98276-9</u>             |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12750.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 09:38</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/18/2018 20:20</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>336777</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 1.3    | J | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW39A-070918 Lab Sample ID: 240-98276-9  
 Matrix: Water Lab File ID: UXM12750.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 09:38  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 20:20  
 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.: 336777 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 87   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 90   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 92   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW39A-070918 Lab Sample ID: 240-98276-9  
Matrix: Water Lab File ID: UXM12750.D  
Analysis Method: 8260C Date Collected: 07/09/2018 09:38  
Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 20:20  
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.: 336777 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW39A-070918 Lab Sample ID: 240-98276-9  
Matrix: Water Lab File ID: UXM12750.D  
Analysis Method: 8260C Date Collected: 07/09/2018 09:38  
Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 20:20  
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.: 336777 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW39B-070918</u> | Lab Sample ID: <u>240-98276-10</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12767.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 09:44</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/19/2018 15:57</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>336990</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW39B-070918</u> | Lab Sample ID: <u>240-98276-10</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12767.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 09:44</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/19/2018 15:57</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>336990</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW39B-070918 Lab Sample ID: 240-98276-10  
 Matrix: Water Lab File ID: UXM12767.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 09:44  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 15:57  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 84   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 92   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW39B-070918 Lab Sample ID: 240-98276-10  
Matrix: Water Lab File ID: UXM12767.D  
Analysis Method: 8260C Date Collected: 07/09/2018 09:44  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 15:57  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 336990 Units: ug/L  
Number TICs Found: 1 TIC Result Total: 2.9

| CAS NO. | COMPOUND NAME | RT   | RESULT | Q   | MATCH<br>QUALITY |
|---------|---------------|------|--------|-----|------------------|
|         | Unknown       | 3.44 | 2.9    | T J |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW39B-070918 Lab Sample ID: 240-98276-10  
Matrix: Water Lab File ID: UXM12767.D  
Analysis Method: 8260C Date Collected: 07/09/2018 09:44  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 15:57  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 336990 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW39C-070918 Lab Sample ID: 240-98276-11

Matrix: Water Lab File ID: UXM12768.D

Analysis Method: 8260C Date Collected: 07/09/2018 09:50

Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 16:21

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.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                  |
| SDG No.: _____                            |                                              |
| Client Sample ID: <u>MSA-SW39C-070918</u> | Lab Sample ID: <u>240-98276-11</u>           |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12768.D</u>               |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 09:50</u>      |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/19/2018 16:21</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>336990</u>         | Units: <u>ug/L</u>                           |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.16   | J | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW39C-070918 Lab Sample ID: 240-98276-11  
 Matrix: Water Lab File ID: UXM12768.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 09:50  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 16:21  
 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.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 84   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 89   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 93   |   | 69-124 |

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

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW39C-070918</u> | Lab Sample ID: <u>240-98276-11</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12768.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 09:50</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/19/2018 16:21</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>336990</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>               | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW39C-070918 Lab Sample ID: 240-98276-11  
Matrix: Water Lab File ID: UXM12768.D  
Analysis Method: 8260C Date Collected: 07/09/2018 09:50  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 16:21  
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.: 336990 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW39D-070918 Lab Sample ID: 240-98276-12

Matrix: Water Lab File ID: UXM12769.D

Analysis Method: 8260C Date Collected: 07/09/2018 09:56

Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 16:45

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.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW39D-070918</u> | Lab Sample ID: <u>240-98276-12</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12769.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 09:56</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/19/2018 16:45</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>336990</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.24   | J | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW39D-070918 Lab Sample ID: 240-98276-12  
 Matrix: Water Lab File ID: UXM12769.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 09:56  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 16:45  
 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.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 94   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 89   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 90   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW39D-070918 Lab Sample ID: 240-98276-12  
Matrix: Water Lab File ID: UXM12769.D  
Analysis Method: 8260C Date Collected: 07/09/2018 09:56  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 16:45  
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.: 336990 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW39D-070918 Lab Sample ID: 240-98276-12  
Matrix: Water Lab File ID: UXM12769.D  
Analysis Method: 8260C Date Collected: 07/09/2018 09:56  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 16:45  
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.: 336990 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW40A-070918</u> | Lab Sample ID: <u>240-98276-13</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12770.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:15</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/19/2018 17:10</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>336990</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW40A-070918</u> | Lab Sample ID: <u>240-98276-13</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12770.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:15</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/19/2018 17:10</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>336990</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.18   | J | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW40A-070918 Lab Sample ID: 240-98276-13  
 Matrix: Water Lab File ID: UXM12770.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 12:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 17:10  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 89   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 69-124 |



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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW40A-070918 Lab Sample ID: 240-98276-13  
Matrix: Water Lab File ID: UXM12770.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:15  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 17:10  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 336990 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW40A-070918 Lab Sample ID: 240-98276-13  
Matrix: Water Lab File ID: UXM12770.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:15  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 17:10  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 336990 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW40B-070918</u> | Lab Sample ID: <u>240-98276-14</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12771.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:18</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/19/2018 17:34</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>336990</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW40B-070918</u> | Lab Sample ID: <u>240-98276-14</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12771.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:18</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/19/2018 17:34</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>336990</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.33   | J | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 0.23   | J | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW40B-070918 Lab Sample ID: 240-98276-14  
 Matrix: Water Lab File ID: UXM12771.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 12:18  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 17:34  
 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.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 84   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 87   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 92   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW40B-070918 Lab Sample ID: 240-98276-14  
Matrix: Water Lab File ID: UXM12771.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:18  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 17:34  
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.: 336990 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW40B-070918 Lab Sample ID: 240-98276-14  
Matrix: Water Lab File ID: UXM12771.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:18  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 17:34  
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.: 336990 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW40C-070918 Lab Sample ID: 240-98276-15

Matrix: Water Lab File ID: UXM12772.D

Analysis Method: 8260C Date Collected: 07/09/2018 12:23

Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 18:19

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.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW40C-070918</u> | Lab Sample ID: <u>240-98276-15</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12772.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:23</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/19/2018 18:19</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>336990</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.21   | J | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW40C-070918 Lab Sample ID: 240-98276-15  
 Matrix: Water Lab File ID: UXM12772.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 12:23  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 18:19  
 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.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 89   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 91   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 89   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 94   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW40C-070918 Lab Sample ID: 240-98276-15  
Matrix: Water Lab File ID: UXM12772.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:23  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 18:19  
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.: 336990 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW40C-070918 Lab Sample ID: 240-98276-15  
Matrix: Water Lab File ID: UXM12772.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:23  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 18:19  
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.: 336990 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT   | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|------|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC | 1.64 | 1.0    | U | 13%              |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW40D-070918</u> | Lab Sample ID: <u>240-98276-16</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12773.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:28</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/19/2018 18:43</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>336990</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW40D-070918</u> | Lab Sample ID: <u>240-98276-16</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12773.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:28</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/19/2018 18:43</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>336990</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW40D-070918 Lab Sample ID: 240-98276-16  
 Matrix: Water Lab File ID: UXM12773.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 12:28  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 18:43  
 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.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 85   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 94   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW40D-070918 Lab Sample ID: 240-98276-16  
Matrix: Water Lab File ID: UXM12773.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:28  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 18:43  
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.: 336990 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |



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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW40D-070918 Lab Sample ID: 240-98276-16  
Matrix: Water Lab File ID: UXM12773.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:28  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 18:43  
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.: 336990 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW41A-070918 Lab Sample ID: 240-98276-17

Matrix: Water Lab File ID: UXM12774.D

Analysis Method: 8260C Date Collected: 07/09/2018 11:21

Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 19:07

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.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW41A-070918</u> | Lab Sample ID: <u>240-98276-17</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12774.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:21</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/19/2018 19:07</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>336990</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW41A-070918 Lab Sample ID: 240-98276-17  
 Matrix: Water Lab File ID: UXM12774.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 11:21  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 19:07  
 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.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101  |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 93   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 103  |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW41A-070918 Lab Sample ID: 240-98276-17  
Matrix: Water Lab File ID: UXM12774.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:21  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 19:07  
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.: 336990 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW41A-070918 Lab Sample ID: 240-98276-17  
Matrix: Water Lab File ID: UXM12774.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:21  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 19:07  
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.: 336990 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW41B-070918 Lab Sample ID: 240-98276-18

Matrix: Water Lab File ID: UXM12775.D

Analysis Method: 8260C Date Collected: 07/09/2018 11:27

Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 19:31

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

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

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW41B-070918</u> | Lab Sample ID: <u>240-98276-18</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12775.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:27</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/19/2018 19:31</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>336990</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.18   | J | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW41B-070918 Lab Sample ID: 240-98276-18  
 Matrix: Water Lab File ID: UXM12775.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 11:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 19:31  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 85   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 89   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 93   |   | 69-124 |

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

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW41B-070918</u> | Lab Sample ID: <u>240-98276-18</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12775.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:27</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/19/2018 19:31</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>336990</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>               | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW41B-070918 Lab Sample ID: 240-98276-18  
Matrix: Water Lab File ID: UXM12775.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:27  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 19:31  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 336990 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW41C-070918</u> | Lab Sample ID: <u>240-98276-19</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12776.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:32</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/19/2018 19:54</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>336990</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW41C-070918</u> | Lab Sample ID: <u>240-98276-19</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12776.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:32</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/19/2018 19:54</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>336990</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW41C-070918 Lab Sample ID: 240-98276-19  
 Matrix: Water Lab File ID: UXM12776.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 11:32  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 19:54  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 87   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 89   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 93   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW41C-070918 Lab Sample ID: 240-98276-19  
Matrix: Water Lab File ID: UXM12776.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:32  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 19:54  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 336990 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW41C-070918 Lab Sample ID: 240-98276-19  
Matrix: Water Lab File ID: UXM12776.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:32  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 19:54  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 336990 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW41D-070918 Lab Sample ID: 240-98276-20

Matrix: Water Lab File ID: UXM12777.D

Analysis Method: 8260C Date Collected: 07/09/2018 11:38

Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 20:18

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.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW41D-070918</u> | Lab Sample ID: <u>240-98276-20</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12777.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:38</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/19/2018 20:18</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>336990</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW41D-070918 Lab Sample ID: 240-98276-20  
 Matrix: Water Lab File ID: UXM12777.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 11:38  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 20:18  
 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.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 92   |   | 69-124 |

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

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW41D-070918</u> | Lab Sample ID: <u>240-98276-20</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12777.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:38</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/19/2018 20:18</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>336990</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>               | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW41D-070918 Lab Sample ID: 240-98276-20  
Matrix: Water Lab File ID: UXM12777.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:38  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 20:18  
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.: 336990 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW42A-070918</u> | Lab Sample ID: <u>240-98276-21</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12794.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:38</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 15:07</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>337214</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW42A-070918</u> | Lab Sample ID: <u>240-98276-21</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12794.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:38</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/20/2018 15:07</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>337214</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW42A-070918 Lab Sample ID: 240-98276-21  
 Matrix: Water Lab File ID: UXM12794.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 12:38  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 15:07  
 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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 89   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 89   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 93   |   | 69-124 |



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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW42A-070918 Lab Sample ID: 240-98276-21  
Matrix: Water Lab File ID: UXM12794.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:38  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 15:07  
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.: 337214 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW42A-070918 Lab Sample ID: 240-98276-21  
Matrix: Water Lab File ID: UXM12794.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:38  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 15:07  
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.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW42B-070918 Lab Sample ID: 240-98276-22

Matrix: Water Lab File ID: UXM12795.D

Analysis Method: 8260C Date Collected: 07/09/2018 12:44

Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 15:31

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

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

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW42B-070918</u> | Lab Sample ID: <u>240-98276-22</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12795.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:44</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/20/2018 15:31</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>337214</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW42B-070918 Lab Sample ID: 240-98276-22  
 Matrix: Water Lab File ID: UXM12795.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 12:44  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 15:31  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 87   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 89   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 92   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW42B-070918 Lab Sample ID: 240-98276-22  
Matrix: Water Lab File ID: UXM12795.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:44  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 15:31  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 337214 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW42B-070918 Lab Sample ID: 240-98276-22  
Matrix: Water Lab File ID: UXM12795.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:44  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 15:31  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW42C-070918</u> | Lab Sample ID: <u>240-98276-23</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12796.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:48</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 15:55</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>337214</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW42C-070918</u> | Lab Sample ID: <u>240-98276-23</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12796.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:48</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/20/2018 15:55</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>337214</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.20   | J | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW42C-070918 Lab Sample ID: 240-98276-23  
 Matrix: Water Lab File ID: UXM12796.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 12:48  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 15:55  
 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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 85   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 92   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW42C-070918 Lab Sample ID: 240-98276-23  
Matrix: Water Lab File ID: UXM12796.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:48  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 15:55  
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.: 337214 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW42C-070918 Lab Sample ID: 240-98276-23  
Matrix: Water Lab File ID: UXM12796.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:48  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 15:55  
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.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW42D-070918 Lab Sample ID: 240-98276-24

Matrix: Water Lab File ID: UXM12797.D

Analysis Method: 8260C Date Collected: 07/09/2018 12:53

Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 16:19

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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW42D-070918</u> | Lab Sample ID: <u>240-98276-24</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12797.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:53</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/20/2018 16:19</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>337214</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW42D-070918 Lab Sample ID: 240-98276-24  
 Matrix: Water Lab File ID: UXM12797.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 12:53  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 16:19  
 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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 90   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 93   |   | 69-124 |

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

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW42D-070918</u> | Lab Sample ID: <u>240-98276-24</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12797.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:53</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 16:19</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>337214</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>               | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |



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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW42D-070918 Lab Sample ID: 240-98276-24  
Matrix: Water Lab File ID: UXM12797.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:53  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 16:19  
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.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW43A-070918 Lab Sample ID: 240-98276-25

Matrix: Water Lab File ID: UXM12798.D

Analysis Method: 8260C Date Collected: 07/09/2018 10:50

Sample wt/vol: 5(mL) Date Analyzed: 07/20/2018 16:42

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

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

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW43A-070918</u> | Lab Sample ID: <u>240-98276-25</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12798.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:50</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/20/2018 16:42</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>337214</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW43A-070918 Lab Sample ID: 240-98276-25  
 Matrix: Water Lab File ID: UXM12798.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 10:50  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 16:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 84   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 87   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 92   |   | 69-124 |

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

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW43A-070918</u> | Lab Sample ID: <u>240-98276-25</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12798.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:50</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 16:42</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>337214</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>               | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW43A-070918 Lab Sample ID: 240-98276-25  
Matrix: Water Lab File ID: UXM12798.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:50  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 16:42  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW43B-070918</u> | Lab Sample ID: <u>240-98276-26</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12799.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:58</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 17:06</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>337214</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                  |
| SDG No.: _____                            |                                              |
| Client Sample ID: <u>MSA-SW43B-070918</u> | Lab Sample ID: <u>240-98276-26</u>           |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12799.D</u>               |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:58</u>      |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/20/2018 17:06</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>337214</u>         | Units: <u>ug/L</u>                           |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW43B-070918 Lab Sample ID: 240-98276-26  
 Matrix: Water Lab File ID: UXM12799.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 10:58  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 17:06  
 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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 89   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 83   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 86   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 91   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW43B-070918 Lab Sample ID: 240-98276-26  
Matrix: Water Lab File ID: UXM12799.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:58  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 17:06  
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.: 337214 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW43B-070918 Lab Sample ID: 240-98276-26  
Matrix: Water Lab File ID: UXM12799.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:58  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 17:06  
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.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW43C-070918</u> | Lab Sample ID: <u>240-98276-27</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12800.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:05</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 17:30</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>337214</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW43C-070918</u> | Lab Sample ID: <u>240-98276-27</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12800.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:05</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/20/2018 17:30</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>337214</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW43C-070918 Lab Sample ID: 240-98276-27  
 Matrix: Water Lab File ID: UXM12800.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 11:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 17:30  
 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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 84   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 87   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 91   |   | 69-124 |

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

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW43C-070918</u> | Lab Sample ID: <u>240-98276-27</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12800.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:05</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 17:30</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>337214</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>               | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW43C-070918 Lab Sample ID: 240-98276-27  
Matrix: Water Lab File ID: UXM12800.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:05  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 17:30  
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.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW43D-070918</u> | Lab Sample ID: <u>240-98276-28</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12801.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:11</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 17:54</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>337214</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW43D-070918</u> | Lab Sample ID: <u>240-98276-28</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12801.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:11</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 17:54</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>337214</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW43D-070918 Lab Sample ID: 240-98276-28  
 Matrix: Water Lab File ID: UXM12801.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 11:11  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 17:54  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 93   |   | 69-124 |

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

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW43D-070918</u> | Lab Sample ID: <u>240-98276-28</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12801.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:11</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 17:54</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>337214</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>               | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW43D-070918 Lab Sample ID: 240-98276-28  
Matrix: Water Lab File ID: UXM12801.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:11  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 17:54  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW44A-070918</u> | Lab Sample ID: <u>240-98276-29</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12802.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:27</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/20/2018 18:18</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>337214</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW44A-070918</u> | Lab Sample ID: <u>240-98276-29</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12802.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:27</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 18:18</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>337214</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW44A-070918 Lab Sample ID: 240-98276-29  
 Matrix: Water Lab File ID: UXM12802.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 10:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 18:18  
 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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 85   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 87   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 93   |   | 69-124 |



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

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW44A-070918</u> | Lab Sample ID: <u>240-98276-29</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12802.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:27</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 18:18</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>337214</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>               | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW44A-070918 Lab Sample ID: 240-98276-29  
Matrix: Water Lab File ID: UXM12802.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:27  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 18:18  
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.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW44B-070918 Lab Sample ID: 240-98276-30

Matrix: Water Lab File ID: UXM12803.D

Analysis Method: 8260C Date Collected: 07/09/2018 10:32

Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 18:41

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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW44B-070918</u> | Lab Sample ID: <u>240-98276-30</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12803.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:32</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 18:41</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>337214</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW44B-070918 Lab Sample ID: 240-98276-30  
 Matrix: Water Lab File ID: UXM12803.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 10:32  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 18:41  
 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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 89   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 84   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 92   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW44B-070918 Lab Sample ID: 240-98276-30  
Matrix: Water Lab File ID: UXM12803.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:32  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 18:41  
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.: 337214 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW44B-070918 Lab Sample ID: 240-98276-30  
Matrix: Water Lab File ID: UXM12803.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:32  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 18:41  
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.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW44C-070918</u> | Lab Sample ID: <u>240-98276-31</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12804.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:36</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 19:05</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>337214</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW44C-070918</u> | Lab Sample ID: <u>240-98276-31</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12804.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:36</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 19:05</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>337214</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW44C-070918 Lab Sample ID: 240-98276-31  
 Matrix: Water Lab File ID: UXM12804.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 10:36  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 19:05  
 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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 93   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW44C-070918 Lab Sample ID: 240-98276-31  
Matrix: Water Lab File ID: UXM12804.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:36  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 19:05  
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.: 337214 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW44C-070918 Lab Sample ID: 240-98276-31  
Matrix: Water Lab File ID: UXM12804.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:36  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 19:05  
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.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW44D-070918</u> | Lab Sample ID: <u>240-98276-32</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12805.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:42</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/20/2018 19:29</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>337214</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                  |
| SDG No.: _____                            |                                              |
| Client Sample ID: <u>MSA-SW44D-070918</u> | Lab Sample ID: <u>240-98276-32</u>           |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12805.D</u>               |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:42</u>      |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/20/2018 19:29</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>337214</u>         | Units: <u>ug/L</u>                           |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW44D-070918 Lab Sample ID: 240-98276-32  
 Matrix: Water Lab File ID: UXM12805.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 10:42  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 19:29  
 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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 87   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 94   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW44D-070918 Lab Sample ID: 240-98276-32  
Matrix: Water Lab File ID: UXM12805.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:42  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 19:29  
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.: 337214 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |



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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW44D-070918 Lab Sample ID: 240-98276-32  
Matrix: Water Lab File ID: UXM12805.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:42  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 19:29  
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.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW45A-070918</u> | Lab Sample ID: <u>240-98276-33</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12806.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:03</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 19:52</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>337214</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                    | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                    | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                   | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane           | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                    | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                   | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                   | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                   | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether             | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                       | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                            | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                          | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                    | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                       | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                               | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                               | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                             | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                          | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                      | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                  | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                         | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                          | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW45A-070918</u> | Lab Sample ID: <u>240-98276-33</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12806.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:03</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/20/2018 19:52</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>337214</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW45A-070918 Lab Sample ID: 240-98276-33  
 Matrix: Water Lab File ID: UXM12806.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 10:03  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 19:52  
 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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 84   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 87   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 91   |   | 69-124 |

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

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW45A-070918</u> | Lab Sample ID: <u>240-98276-33</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12806.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:03</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 19:52</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>337214</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>               | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW45A-070918 Lab Sample ID: 240-98276-33  
Matrix: Water Lab File ID: UXM12806.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:03  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 19:52  
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.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW45B-070918</u> | Lab Sample ID: <u>240-98276-34</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12807.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:08</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 20:16</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>337214</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW45B-070918</u> | Lab Sample ID: <u>240-98276-34</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12807.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:08</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 20:16</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>337214</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.22   | J | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 0.13   | J | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW45B-070918 Lab Sample ID: 240-98276-34  
 Matrix: Water Lab File ID: UXM12807.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 10:08  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 20:16  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 83   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 91   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW45B-070918 Lab Sample ID: 240-98276-34  
Matrix: Water Lab File ID: UXM12807.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:08  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 20:16  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 337214 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW45B-070918 Lab Sample ID: 240-98276-34  
Matrix: Water Lab File ID: UXM12807.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:08  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 20:16  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW45C-070918 Lab Sample ID: 240-98276-35

Matrix: Water Lab File ID: UXM12808.D

Analysis Method: 8260C Date Collected: 07/09/2018 10:14

Sample wt/vol: 5(mL) Date Analyzed: 07/20/2018 20:39

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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW45C-070918</u> | Lab Sample ID: <u>240-98276-35</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12808.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:14</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 20:39</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>337214</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW45C-070918 Lab Sample ID: 240-98276-35  
 Matrix: Water Lab File ID: UXM12808.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 10:14  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 20:39  
 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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 94   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW45C-070918 Lab Sample ID: 240-98276-35  
Matrix: Water Lab File ID: UXM12808.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:14  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 20:39  
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.: 337214 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW45C-070918 Lab Sample ID: 240-98276-35  
Matrix: Water Lab File ID: UXM12808.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:14  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 20:39  
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.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW45D-070918</u> | Lab Sample ID: <u>240-98276-36</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12809.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:18</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 21:03</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>337214</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW45D-070918</u> | Lab Sample ID: <u>240-98276-36</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12809.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:18</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 21:03</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>337214</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW45D-070918 Lab Sample ID: 240-98276-36  
 Matrix: Water Lab File ID: UXM12809.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 10:18  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 21:03  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 94   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 89   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 91   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 94   |   | 69-124 |

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

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW45D-070918</u> | Lab Sample ID: <u>240-98276-36</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12809.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 10:18</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/20/2018 21:03</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>337214</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>               | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW45D-070918 Lab Sample ID: 240-98276-36  
Matrix: Water Lab File ID: UXM12809.D  
Analysis Method: 8260C Date Collected: 07/09/2018 10:18  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 21:03  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                          |                                               |
|------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>      | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                           |                                               |
| Client Sample ID: <u>EL-SW01A-070918</u> | Lab Sample ID: <u>240-98276-37</u>            |
| Matrix: <u>Water</u>                     | Lab File ID: <u>UXM12810.D</u>                |
| Analysis Method: <u>8260C</u>            | Date Collected: <u>07/09/2018 09:18</u>       |
| Sample wt/vol: <u>5(mL)</u>              | Date Analyzed: <u>07/20/2018 21:27</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>337214</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                          |                                               |
|------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>      | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                           |                                               |
| Client Sample ID: <u>EL-SW01A-070918</u> | Lab Sample ID: <u>240-98276-37</u>            |
| Matrix: <u>Water</u>                     | Lab File ID: <u>UXM12810.D</u>                |
| Analysis Method: <u>8260C</u>            | Date Collected: <u>07/09/2018 09:18</u>       |
| Sample wt/vol: <u>5(mL)</u>              | Date Analyzed: <u>07/20/2018 21:27</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>337214</u>        | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EL-SW01A-070918 Lab Sample ID: 240-98276-37  
 Matrix: Water Lab File ID: UXM12810.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 09:18  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 21:27  
 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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 93   |   | 69-124 |



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

|                                          |                                               |
|------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>      | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                           |                                               |
| Client Sample ID: <u>EL-SW01A-070918</u> | Lab Sample ID: <u>240-98276-37</u>            |
| Matrix: <u>Water</u>                     | Lab File ID: <u>UXM12810.D</u>                |
| Analysis Method: <u>8260C</u>            | Date Collected: <u>07/09/2018 09:18</u>       |
| Sample wt/vol: <u>5 (mL)</u>             | Date Analyzed: <u>07/20/2018 21:27</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>337214</u>        | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>              | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: EL-SW01A-070918 Lab Sample ID: 240-98276-37  
Matrix: Water Lab File ID: UXM12810.D  
Analysis Method: 8260C Date Collected: 07/09/2018 09:18  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 21:27  
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.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                          |                                               |
|------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>      | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                           |                                               |
| Client Sample ID: <u>EL-SW01B-070918</u> | Lab Sample ID: <u>240-98276-38</u>            |
| Matrix: <u>Water</u>                     | Lab File ID: <u>UXM12811.D</u>                |
| Analysis Method: <u>8260C</u>            | Date Collected: <u>07/09/2018 09:22</u>       |
| Sample wt/vol: <u>5(mL)</u>              | Date Analyzed: <u>07/20/2018 21:51</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>337214</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                          |                                               |
|------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>      | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                           |                                               |
| Client Sample ID: <u>EL-SW01B-070918</u> | Lab Sample ID: <u>240-98276-38</u>            |
| Matrix: <u>Water</u>                     | Lab File ID: <u>UXM12811.D</u>                |
| Analysis Method: <u>8260C</u>            | Date Collected: <u>07/09/2018 09:22</u>       |
| Sample wt/vol: <u>5(mL)</u>              | Date Analyzed: <u>07/20/2018 21:51</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>337214</u>        | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 1.2    | J | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EL-SW01B-070918 Lab Sample ID: 240-98276-38  
 Matrix: Water Lab File ID: UXM12811.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 09:22  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 21:51  
 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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 89   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 87   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 93   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: EL-SW01B-070918 Lab Sample ID: 240-98276-38  
Matrix: Water Lab File ID: UXM12811.D  
Analysis Method: 8260C Date Collected: 07/09/2018 09:22  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 21:51  
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.: 337214 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: EL-SW01B-070918 Lab Sample ID: 240-98276-38  
Matrix: Water Lab File ID: UXM12811.D  
Analysis Method: 8260C Date Collected: 07/09/2018 09:22  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 21:51  
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.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: EL-SW01C-070918 Lab Sample ID: 240-98276-39

Matrix: Water Lab File ID: UXM12812.D

Analysis Method: 8260C Date Collected: 07/09/2018 09:25

Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 22:15

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

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

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                          |                                               |
|------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>      | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                           |                                               |
| Client Sample ID: <u>EL-SW01C-070918</u> | Lab Sample ID: <u>240-98276-39</u>            |
| Matrix: <u>Water</u>                     | Lab File ID: <u>UXM12812.D</u>                |
| Analysis Method: <u>8260C</u>            | Date Collected: <u>07/09/2018 09:25</u>       |
| Sample wt/vol: <u>5 (mL)</u>             | Date Analyzed: <u>07/20/2018 22:15</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>337214</u>        | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 1.5    | J | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EL-SW01C-070918 Lab Sample ID: 240-98276-39  
 Matrix: Water Lab File ID: UXM12812.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 09:25  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 22:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 88   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 89   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 95   |   | 69-124 |

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

|                                          |                                               |
|------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>      | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                           |                                               |
| Client Sample ID: <u>EL-SW01C-070918</u> | Lab Sample ID: <u>240-98276-39</u>            |
| Matrix: <u>Water</u>                     | Lab File ID: <u>UXM12812.D</u>                |
| Analysis Method: <u>8260C</u>            | Date Collected: <u>07/09/2018 09:25</u>       |
| Sample wt/vol: <u>5 (mL)</u>             | Date Analyzed: <u>07/20/2018 22:15</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>337214</u>        | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>              | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: EL-SW01C-070918 Lab Sample ID: 240-98276-39  
Matrix: Water Lab File ID: UXM12812.D  
Analysis Method: 8260C Date Collected: 07/09/2018 09:25  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 22:15  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: EL-SW01D-070918 Lab Sample ID: 240-98276-40

Matrix: Water Lab File ID: UXM12823.D

Analysis Method: 8260C Date Collected: 07/09/2018 09:28

Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 12:15

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

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

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 337453 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                          |                                               |
|------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>      | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                           |                                               |
| Client Sample ID: <u>EL-SW01D-070918</u> | Lab Sample ID: <u>240-98276-40</u>            |
| Matrix: <u>Water</u>                     | Lab File ID: <u>UXM12823.D</u>                |
| Analysis Method: <u>8260C</u>            | Date Collected: <u>07/09/2018 09:28</u>       |
| Sample wt/vol: <u>5 (mL)</u>             | Date Analyzed: <u>07/23/2018 12:15</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>337453</u>        | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q   | RL   | MDL   |
|-------------|-------------------------------|--------|-----|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U   | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U   | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U   | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U * | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U   | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U   | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U   | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U   | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U   | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U   | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U   | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U   | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U   | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U   | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U   | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U   | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U   | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U   | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U   | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U   | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U   | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U   | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U   | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U   | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U   | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U   | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U   | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U   | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U   | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U   | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U   | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U   | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U   | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U   | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EL-SW01D-070918 Lab Sample ID: 240-98276-40  
 Matrix: Water Lab File ID: UXM12823.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 09:28  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 12:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 337453 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 94   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 89   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 90   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 69-124 |

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

|                                          |                                               |
|------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>      | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                           |                                               |
| Client Sample ID: <u>EL-SW01D-070918</u> | Lab Sample ID: <u>240-98276-40</u>            |
| Matrix: <u>Water</u>                     | Lab File ID: <u>UXM12823.D</u>                |
| Analysis Method: <u>8260C</u>            | Date Collected: <u>07/09/2018 09:28</u>       |
| Sample wt/vol: <u>5 (mL)</u>             | Date Analyzed: <u>07/23/2018 12:15</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>337453</u>        | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>              | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |



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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: EL-SW01D-070918 Lab Sample ID: 240-98276-40  
Matrix: Water Lab File ID: UXM12823.D  
Analysis Method: 8260C Date Collected: 07/09/2018 09:28  
Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 12:15  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 337453 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: TB-070918 Lab Sample ID: 240-98276-41

Matrix: Water Lab File ID: UXM12824.D

Analysis Method: 8260C Date Collected: 07/09/2018 00:00

Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 12:39

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.: 337453 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 6.1    |   | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                     |                                               |
|-------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u> | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                      |                                               |
| Client Sample ID: <u>TB-070918</u>  | Lab Sample ID: <u>240-98276-41</u>            |
| Matrix: <u>Water</u>                | Lab File ID: <u>UXM12824.D</u>                |
| Analysis Method: <u>8260C</u>       | Date Collected: <u>07/09/2018 00:00</u>       |
| Sample wt/vol: <u>5(mL)</u>         | Date Analyzed: <u>07/23/2018 12:39</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>337453</u>   | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q   | RL   | MDL   |
|-------------|-------------------------------|--------|-----|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U   | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U   | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U   | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U * | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U   | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U   | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U   | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U   | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U   | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U   | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U   | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U   | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U   | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U   | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U   | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U   | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U   | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U   | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U   | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U   | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U   | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U   | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U   | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U   | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U   | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U   | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U   | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U   | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U   | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U   | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U   | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U   | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 7.2    | J   | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U   | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: TB-070918 Lab Sample ID: 240-98276-41  
 Matrix: Water Lab File ID: UXM12824.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 12:39  
 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.: 337453 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 90   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 97   |   | 69-124 |

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

|                                     |                                               |
|-------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u> | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                      |                                               |
| Client Sample ID: <u>TB-070918</u>  | Lab Sample ID: <u>240-98276-41</u>            |
| Matrix: <u>Water</u>                | Lab File ID: <u>UXM12824.D</u>                |
| Analysis Method: <u>8260C</u>       | Date Collected: <u>07/09/2018 00:00</u>       |
| Sample wt/vol: <u>5 (mL)</u>        | Date Analyzed: <u>07/23/2018 12:39</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>337453</u>   | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>         | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: TB-070918 Lab Sample ID: 240-98276-41  
Matrix: Water Lab File ID: UXM12824.D  
Analysis Method: 8260C Date Collected: 07/09/2018 00:00  
Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 12:39  
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.: 337453 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW46A-070918</u> | Lab Sample ID: <u>240-98276-42</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12825.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:34</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/23/2018 13:03</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>337453</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW46A-070918</u> | Lab Sample ID: <u>240-98276-42</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12825.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:34</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/23/2018 13:03</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>337453</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q   | RL   | MDL   |
|-------------|-------------------------------|--------|-----|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U   | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U   | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.18   | J   | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U * | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U   | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U   | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U   | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U   | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U   | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U   | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U   | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U   | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U   | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U   | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U   | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U   | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U   | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U   | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U   | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U   | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U   | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U   | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U   | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U   | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U   | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U   | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U   | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U   | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U   | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U   | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U   | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U   | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U   | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U   | 2.0  | 0.15  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW46A-070918 Lab Sample ID: 240-98276-42  
 Matrix: Water Lab File ID: UXM12825.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 12:34  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 13:03  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 337453 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 95   |   | 69-124 |

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

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW46A-070918</u> | Lab Sample ID: <u>240-98276-42</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12825.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:34</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/23/2018 13:03</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>337453</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>0</u>               | TIC Result Total: <u>0</u>                    |

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW46A-070918 Lab Sample ID: 240-98276-42  
Matrix: Water Lab File ID: UXM12825.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:34  
Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 13:03  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 337453 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW47A-070918 Lab Sample ID: 240-98276-43

Matrix: Water Lab File ID: UXM12826.D

Analysis Method: 8260C Date Collected: 07/09/2018 12:11

Sample wt/vol: 5(mL) Date Analyzed: 07/23/2018 13:27

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.: 337453 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW47A-070918</u> | Lab Sample ID: <u>240-98276-43</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12826.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 12:11</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/23/2018 13:27</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>337453</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q   | RL   | MDL   |
|-------------|-------------------------------|--------|-----|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U   | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U   | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.21   | J   | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U * | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U   | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U   | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U   | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U   | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U   | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U   | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U   | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U   | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U   | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U   | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U   | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U   | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U   | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U   | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U   | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U   | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U   | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U   | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U   | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U   | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U   | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U   | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U   | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U   | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U   | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U   | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U   | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U   | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U   | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U   | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW47A-070918 Lab Sample ID: 240-98276-43  
 Matrix: Water Lab File ID: UXM12826.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 12:11  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 13:27  
 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.: 337453 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 85   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 87   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 96   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW47A-070918 Lab Sample ID: 240-98276-43  
Matrix: Water Lab File ID: UXM12826.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:11  
Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 13:27  
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.: 337453 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW47A-070918 Lab Sample ID: 240-98276-43  
Matrix: Water Lab File ID: UXM12826.D  
Analysis Method: 8260C Date Collected: 07/09/2018 12:11  
Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 13:27  
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.: 337453 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |



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Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: MSA-SW48A-070918 Lab Sample ID: 240-98276-44

Matrix: Water Lab File ID: UXM12827.D

Analysis Method: 8260C Date Collected: 07/09/2018 11:43

Sample wt/vol: 5(mL) Date Analyzed: 07/23/2018 13:51

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.: 337453 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 10     | U | 10  | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW48A-070918</u> | Lab Sample ID: <u>240-98276-44</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12827.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:43</u>       |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>07/23/2018 13:51</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>337453</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q   | RL   | MDL   |
|-------------|-------------------------------|--------|-----|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U   | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U   | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.27   | J   | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U * | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U   | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U   | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U   | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U   | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U   | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U   | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U   | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U   | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U   | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U   | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U   | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U   | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U   | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U   | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U   | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U   | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U   | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U   | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U   | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U   | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U   | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U   | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U   | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U   | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U   | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U   | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U   | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U   | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U   | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U   | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW48A-070918 Lab Sample ID: 240-98276-44  
 Matrix: Water Lab File ID: UXM12827.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 11:43  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 13:51  
 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.: 337453 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 87   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 96   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW48A-070918 Lab Sample ID: 240-98276-44  
Matrix: Water Lab File ID: UXM12827.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:43  
Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 13:51  
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.: 337453 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW48A-070918 Lab Sample ID: 240-98276-44  
Matrix: Water Lab File ID: UXM12827.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:43  
Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 13:51  
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.: 337453 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

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GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW49A-070918</u> | Lab Sample ID: <u>240-98276-45</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12828.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:17</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/23/2018 14:15</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>337453</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 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Lab Name: <u>TestAmerica Canton</u>       | Job No.: <u>240-98276-1</u>                   |
| SDG No.: _____                            |                                               |
| Client Sample ID: <u>MSA-SW49A-070918</u> | Lab Sample ID: <u>240-98276-45</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UXM12828.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>07/09/2018 11:17</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>07/23/2018 14:15</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>337453</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                 | RESULT | Q   | RL   | MDL   |
|-------------|-------------------------------|--------|-----|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U   | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U   | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 0.29   | J   | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U * | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U   | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U   | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U   | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U   | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U   | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U   | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U   | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U   | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U   | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U   | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U   | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U   | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U   | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U   | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U   | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U   | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U   | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U   | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U   | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U   | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U   | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U   | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U   | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U   | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 0.13   | J   | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U   | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U   | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U   | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U   | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U   | 2.0  | 0.15  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MSA-SW49A-070918 Lab Sample ID: 240-98276-45  
 Matrix: Water Lab File ID: UXM12828.D  
 Analysis Method: 8260C Date Collected: 07/09/2018 11:17  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 14:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 337453 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 96   |   | 69-124 |



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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW49A-070918 Lab Sample ID: 240-98276-45  
Matrix: Water Lab File ID: UXM12828.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:17  
Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 14:15  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 337453 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: MSA-SW49A-070918 Lab Sample ID: 240-98276-45  
Matrix: Water Lab File ID: UXM12828.D  
Analysis Method: 8260C Date Collected: 07/09/2018 11:17  
Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 14:15  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 337453 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW37A-070918

Lab Sample ID: 240-98276-1

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 13:00

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.5    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 12     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.2    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.8    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 1.0    | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW37A-070918

Lab Sample ID: 240-98276-1

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 13:00

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 230    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 60     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 170    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW37B-070918

Lab Sample ID: 240-98276-2

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 13:05

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.8    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 0.26   | 1.0  | 0.19  | ug/L  | J |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.7    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.8    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 0.98   | 5.0  | 0.89  | ug/L  | J |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 1.1    | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW37B-070918

Lab Sample ID: 240-98276-2

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 13:05

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 240    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 61     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW37C-070918

Lab Sample ID: 240-98276-3

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 13:09

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.5    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.7    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 1.2    | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW37C-070918

Lab Sample ID: 240-98276-3

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 13:09

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 240    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 61     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 170    | 21 |  | mg/L  |   |   | 1   | SM 2340B |



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW37D-070918

Lab Sample ID: 240-98276-4

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 13:15

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.1    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 12     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.2    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.6    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 1.0    | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW37D-070918      Lab Sample ID: 240-98276-4  
Lab Name: TestAmerica Canton      Job No.: 240-98276-1  
SDG ID.:  
Matrix: Water      Date Sampled: 07/09/2018 13:15  
Reporting Basis: WET      Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 220    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 58     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 160    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW38A-070918

Lab Sample ID: 240-98276-5

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:47

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.5    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 12     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 0.38   | 1.0  | 0.19  | ug/L  | J |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.5    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.6    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.96   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW38A-070918

Lab Sample ID: 240-98276-5

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:47

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 230    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 59     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 170    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW38B-070918

Lab Sample ID: 240-98276-6

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:51

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.4    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 0.35   | 1.0  | 0.19  | ug/L  | J |   | 1   | 6020   |
| 7440-50-8 | Copper     | 6.3    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.6    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 1.1    | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW38B-070918

Lab Sample ID: 240-98276-6

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:51

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 240    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 62     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW38C-070918

Lab Sample ID: 240-98276-7

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:56

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.4    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 14     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 0.25   | 1.0  | 0.21  | ug/L  | J |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 0.48   | 1.0  | 0.19  | ug/L  | J |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.6    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 1.0    | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW38C-070918

Lab Sample ID: 240-98276-7

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:56

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 250    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 63     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW38D-070918

Lab Sample ID: 240-98276-8

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:03

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.4    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 12     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.6    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.6    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.94   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW38D-070918      Lab Sample ID: 240-98276-8  
Lab Name: TestAmerica Canton      Job No.: 240-98276-1  
SDG ID.:  
Matrix: Water      Date Sampled: 07/09/2018 12:03  
Reporting Basis: WET      Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 230    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 60     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 170    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW39A-070918

Lab Sample ID: 240-98276-9

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 09:38

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.2    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 14     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 4.2    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.6    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 5.0    | 5.0  | 0.82  | ug/L  | U |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW39A-070918

Lab Sample ID: 240-98276-9

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 09:38

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 240    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 60     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW39B-070918

Lab Sample ID: 240-98276-10

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 09:44

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.2    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 14     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.0    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 5.0    | 5.0  | 0.82  | ug/L  | U |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW39B-070918

Lab Sample ID: 240-98276-10

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 09:44

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 260    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 64     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 200    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW39C-070918

Lab Sample ID: 240-98276-11

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 09:50

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.1    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 14     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.2    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.93   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW39C-070918

Lab Sample ID: 240-98276-11

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 09:50

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 270    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 65     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 200    | 21 |  | mg/L  |   |   | 1   | SM 2340B |



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW39D-070918

Lab Sample ID: 240-98276-12

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 09:56

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.4    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 14     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.6    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.6    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.82   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW39D-070918

Lab Sample ID: 240-98276-12

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 09:56

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 250    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 63     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 190    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW40A-070918

Lab Sample ID: 240-98276-13

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:15

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.3    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 12     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.2    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.6    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.93   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW40A-070918

Lab Sample ID: 240-98276-13

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:15

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 230    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 59     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 170    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW40B-070918

Lab Sample ID: 240-98276-14

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:18

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.5    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.8    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 1.1    | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW40B-070918

Lab Sample ID: 240-98276-14

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:18

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 240    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 61     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW40C-070918

Lab Sample ID: 240-98276-15

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:23

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.4    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 14     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 6.0    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 1.1    | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW40C-070918

Lab Sample ID: 240-98276-15

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:23

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 240    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 61     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW40D-070918

Lab Sample ID: 240-98276-16

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:28

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.8    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 14     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 1.2    | 2.0  | 0.98  | ug/L  | J |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 0.36   | 1.0  | 0.19  | ug/L  | J |   | 1   | 6020   |
| 7440-50-8 | Copper     | 8.3    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 0.92   | 1.0  | 0.45  | ug/L  | J |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 1.4    | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW40D-070918

Lab Sample ID: 240-98276-16

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:28

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 230    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 60     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 170    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW41A-070918

Lab Sample ID: 240-98276-17

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:21

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.5    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.8    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.92   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW41A-070918

Lab Sample ID: 240-98276-17

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:21

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 250    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 63     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW41B-070918

Lab Sample ID: 240-98276-18

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:27

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.2    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.7    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 1.0    | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW41B-070918

Lab Sample ID: 240-98276-18

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:27

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 250    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 62     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW41C-070918

Lab Sample ID: 240-98276-19

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:32

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.5    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.5    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.86   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW41C-070918

Lab Sample ID: 240-98276-19

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:32

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 240    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 62     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW41D-070918

Lab Sample ID: 240-98276-20

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:38

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.2    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.3    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.97   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW41D-070918

Lab Sample ID: 240-98276-20

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:38

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 230    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 60     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 170    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW42A-070918

Lab Sample ID: 240-98276-21

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:38

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.7    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 0.44   | 1.0  | 0.31  | ug/L  | J |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 0.33   | 1.0  | 0.19  | ug/L  | J |   | 1   | 6020   |
| 7440-50-8 | Copper     | 6.7    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 0.60   | 1.0  | 0.45  | ug/L  | J |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.8    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 1.4    | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW42A-070918

Lab Sample ID: 240-98276-21

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:38

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 250    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 62     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW42B-070918

Lab Sample ID: 240-98276-22

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:44

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 0.61   | 2.0  | 0.57  | ug/L  | J |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.7    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 0.88   | 1.0  | 0.31  | ug/L  | J |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 0.31   | 1.0  | 0.19  | ug/L  | J |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.5    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.8    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 1.0    | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW42B-070918

Lab Sample ID: 240-98276-22

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:44

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 240    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 60     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW42C-070918

Lab Sample ID: 240-98276-23

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:48

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.6    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 12     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 0.55   | 1.0  | 0.31  | ug/L  | J |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.4    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.6    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 1.0    | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW42C-070918

Lab Sample ID: 240-98276-23

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:48

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 230    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 59     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 170    | 21 |  | mg/L  |   |   | 1   | SM 2340B |



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW42D-070918

Lab Sample ID: 240-98276-24

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:53

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.4    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.6    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.97   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW42D-070918

Lab Sample ID: 240-98276-24

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 12:53

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 240    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 61     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW43A-070918

Lab Sample ID: 240-98276-25

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:50

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.4    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.8    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.6    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.93   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW43A-070918      Lab Sample ID: 240-98276-25  
Lab Name: TestAmerica Canton      Job No.: 240-98276-1  
SDG ID.:  
Matrix: Water      Date Sampled: 07/09/2018 10:50  
Reporting Basis: WET      Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 240    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 60     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW43B-070918

Lab Sample ID: 240-98276-26

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:58

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.2    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.8    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.98   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW43B-070918

Lab Sample ID: 240-98276-26

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:58

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 250    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 62     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW43C-070918

Lab Sample ID: 240-98276-27

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:05

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.4    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.5    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 1.0    | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW43C-070918

Lab Sample ID: 240-98276-27

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:05

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 250    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 62     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW43D-070918

Lab Sample ID: 240-98276-28

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:11

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.4    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.8    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.99   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW43D-070918

Lab Sample ID: 240-98276-28

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 11:11

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 240    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 61     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW44A-070918

Lab Sample ID: 240-98276-29

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:27

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.2    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.6    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.96   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW44A-070918

Lab Sample ID: 240-98276-29

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:27

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 260    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 64     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 190    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW44B-070918

Lab Sample ID: 240-98276-30

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:32

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.1    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.5    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.96   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW44B-070918

Lab Sample ID: 240-98276-30

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:32

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 250    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 63     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 190    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW44C-070918

Lab Sample ID: 240-98276-31

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:36

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.1    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 12     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.9    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.5    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.82   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW44C-070918

Lab Sample ID: 240-98276-31

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:36

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 230    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 58     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 170    | 21 |  | mg/L  |   |   | 1   | SM 2340B |



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW44D-070918

Lab Sample ID: 240-98276-32

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:42

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.3    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 14     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.7    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 5.0    | 5.0  | 0.82  | ug/L  | U |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW44D-070918

Lab Sample ID: 240-98276-32

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:42

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 260    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 65     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 190    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW45A-070918

Lab Sample ID: 240-98276-33

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:03

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.1    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 4.4    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.5    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 5.0    | 5.0  | 0.82  | ug/L  | U |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW45A-070918

Lab Sample ID: 240-98276-33

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:03

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 240    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 58     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 180    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW45B-070918

Lab Sample ID: 240-98276-34

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:08

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.3    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 14     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.4    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 5.0    | 5.0  | 0.82  | ug/L  | U |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW45B-070918

Lab Sample ID: 240-98276-34

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:08

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 250    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 64     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 190    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW45C-070918

Lab Sample ID: 240-98276-35

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:14

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.3    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 13     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.3    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.83   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW45C-070918

Lab Sample ID: 240-98276-35

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:14

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 260    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 64     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 190    | 21 |  | mg/L  |   |   | 1   | SM 2340B |



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW45D-070918

Lab Sample ID: 240-98276-36

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:18

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No.   | Analyte    | Result | RL   | MDL   | Units | C | Q | DIL | Method |
|-----------|------------|--------|------|-------|-------|---|---|-----|--------|
| 7440-36-0 | Antimony   | 2.0    | 2.0  | 0.57  | ug/L  | U |   | 1   | 6020   |
| 7440-38-2 | Arsenic    | 1.4    | 5.0  | 0.75  | ug/L  | J |   | 1   | 6020   |
| 7440-39-3 | Barium     | 14     | 5.0  | 2.2   | ug/L  |   |   | 1   | 6020   |
| 7440-41-7 | Beryllium  | 1.0    | 1.0  | 0.31  | ug/L  | U |   | 1   | 6020   |
| 7440-43-9 | Cadmium    | 1.0    | 1.0  | 0.21  | ug/L  | U |   | 1   | 6020   |
| 7440-47-3 | Chromium   | 2.0    | 2.0  | 0.98  | ug/L  | U |   | 1   | 6020   |
| 7440-48-4 | Cobalt     | 1.0    | 1.0  | 0.19  | ug/L  | U |   | 1   | 6020   |
| 7440-50-8 | Copper     | 5.8    | 2.0  | 1.7   | ug/L  |   |   | 1   | 6020   |
| 7439-92-1 | Lead       | 1.0    | 1.0  | 0.45  | ug/L  | U |   | 1   | 6020   |
| 7439-98-7 | Molybdenum | 1.7    | 5.0  | 1.1   | ug/L  | J |   | 1   | 6020   |
| 7440-02-0 | Nickel     | 2.0    | 2.0  | 1.5   | ug/L  | U |   | 1   | 6020   |
| 7782-49-2 | Selenium   | 5.0    | 5.0  | 0.89  | ug/L  | U |   | 1   | 6020   |
| 7440-22-4 | Silver     | 1.0    | 1.0  | 0.053 | ug/L  | U |   | 1   | 6020   |
| 7440-28-0 | Thallium   | 1.0    | 1.0  | 0.20  | ug/L  | U |   | 1   | 6020   |
| 7440-62-2 | Vanadium   | 0.90   | 5.0  | 0.82  | ug/L  | J |   | 1   | 6020   |
| 7440-66-6 | Zinc       | 20     | 20   | 15    | ug/L  | U |   | 1   | 6020   |
| 7440-33-7 | Tungsten   | 10     | 10   | 1.8   | ug/L  | U |   | 1   | 6020   |
| 7439-97-6 | Mercury    | 0.20   | 0.20 | 0.13  | ug/L  | U |   | 1   | 7470A  |

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS - DISSOLVED

Client Sample ID: MSA-SW45D-070918

Lab Sample ID: 240-98276-36

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG ID.:

Matrix: Water

Date Sampled: 07/09/2018 10:18

Reporting Basis: WET

Date Received: 07/10/2018 09:25

| CAS No. | Analyte                                 | Result | RL |  | Units | C | Q | DIL | Method   |
|---------|-----------------------------------------|--------|----|--|-------|---|---|-----|----------|
|         | Hardness as calcium carbonate           | 250    | 33 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Calcium hardness as calcium carbonate   | 62     | 12 |  | mg/L  |   |   | 1   | SM 2340B |
|         | Magnesium hardness as calcium carbonate | 190    | 21 |  | mg/L  |   |   | 1   | SM 2340B |

## **Appendix C**

Support Documentation

LMC - MARTIN STATE AIRPORT  
SDG 240-98276-1

SAMPLE IDENTIFICATION

TB-070918

COMPOUND

TERTIARY-BUTYL ALCOHOL

COMPOUND AREA 11153

INTERNAL STANDARD AMOUNT (ng) 100

VOLUME WATER PURGED (ml) 5

DILUTION FACTOR 1

INTERNAL STANDARD AREA 1025201

AVERAGE RRF 0.0303

ml to  $\mu$ l 1000

ng to  $\mu$ g 1000

7.18  $\mu$ g/L

$11153 \times 100\text{ng} \times 1 \times 1000\text{ml} \times 1\mu\text{g} / 1025201 \times 0.0303 \times 5\text{ml} \times 1\text{L} \times 1000\text{ng}$

TestAmerica Canton  
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX16\20180723-78216.b\UXM12824.D  
 Lims ID: 240-98276-B-41  
 Client ID: TB-070918  
 Sample Type: Client  
 Inject. Date: 23-Jul-2018 12:39:30 ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 240-0078216-011  
 Operator ID: 001765 Instrument ID: A3UX16  
 Method: \\ChromNA\Canton\ChromData\A3UX16\20180723-78216.b\8260\_16.m  
 Limit Group: MSV 8260C ICAL  
 Last Update: 23-Jul-2018 13:01:34 Calib Date: 07-Jul-2018 01:02:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Canton\ChromData\A3UX16\20180706-77719.b\UXM12466.D  
 Column 1 : DB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: XAWRK015

First Level Reviewer: bosworthh

Date: 23-Jul-2018 13:04:08

| Compound                        | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/l | Flags |
|---------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| * 1 Fluorobenzene               | 96  | 5.810        | 5.810            | 0.000            | 99 | 1025201  | 20.0              |       |
| * 2 Chlorobenzene-d5            | 117 | 8.502        | 8.502            | 0.000            | 87 | 925405   | 20.0              |       |
| * 3 1,4-Dichlorobenzene-d4      | 152 | 10.743       | 10.743           | 0.000            | 97 | 474538   | 20.0              |       |
| \$ 4 Dibromofluoromethane (Surr | 113 | 5.229        | 5.229            | 0.000            | 93 | 239658   | 19.4              |       |
| \$ 5 1,2-Dichloroethane-d4 (Sur | 65  | 5.525        | 5.525            | 0.000            | 98 | 338568   | 18.6              |       |
| \$ 6 Toluene-d8 (Surr)          | 98  | 7.185        | 7.185            | 0.000            | 93 | 1079338  | 17.9              |       |
| \$ 7 4-Bromofluorobenzene (Surr | 95  | 9.616        | 9.616            | 0.000            | 85 | 367036   | 17.2              |       |
| 9 Dichlorodifluoromethane       | 85  |              | 1.790            |                  |    |          | ND                |       |
| 10 Chloromethane                | 50  |              | 2.015            |                  |    |          | ND                |       |
| 11 Vinyl chloride               | 62  |              | 2.134            |                  |    |          | ND                |       |
| 13 Bromomethane                 | 94  |              | 2.501            |                  |    |          | ND                |       |
| 14 Chloroethane                 | 64  |              | 2.549            |                  |    |          | ND                |       |
| 16 Trichlorofluoromethane       | 101 |              | 2.845            |                  |    |          | ND                |       |
| 19 1,1-Dichloroethene           | 96  |              | 3.260            |                  |    |          | ND                |       |
| 21 Acetone                      | 58  | 3.308        | 3.308            | 0.000            | 99 | 9703     | 6.06              |       |
| 20 1,1,2-Trichloro-1,2,2-trif   | 151 |              | 3.308            |                  |    |          | ND                |       |
| 24 Carbon disulfide             | 76  |              | 3.474            |                  |    |          | ND                |       |
| 28 Methylene Chloride           | 84  |              | 3.699            |                  |    |          | ND                |       |
| 29 2-Methyl-2-propanol          | 59  | 3.806        | 3.806            | 0.000            | 95 | 11153    | 7.17              |       |
| 32 trans-1,2-Dichloroethene     | 96  |              | 3.948            |                  |    |          | ND                |       |
| 31 Methyl tert-butyl ether      | 73  |              | 3.960            |                  |    |          | ND                |       |
| 34 1,1-Dichloroethane           | 63  |              | 4.328            |                  |    |          | ND                |       |
| 35 Vinyl acetate                | 43  |              | 4.363            |                  |    |          | ND                |       |
| 36 Isopropyl ether              | 87  |              | 4.387            |                  |    |          | ND                |       |
| 38 Tert-butyl ethyl ether       | 59  |              | 4.695            |                  |    |          | ND                |       |
| 41 2,2-Dichloropropane          | 97  |              | 4.826            |                  |    |          | ND                |       |
| 39 cis-1,2-Dichloroethene       | 96  |              | 4.826            |                  |    |          | ND                |       |
| 40 2-Butanone (MEK)             | 72  | 4.838        | 4.826            | 0.012            | 98 | 1455     | 0.6615            |       |
| 45 Chlorobromomethane           | 128 |              | 5.027            |                  |    |          | ND                |       |
| 47 Chloroform                   | 83  |              | 5.087            |                  |    |          | ND                |       |
| 48 1,1,1-Trichloroethane        | 97  |              | 5.264            |                  |    |          | ND                |       |
| 51 Carbon tetrachloride         | 117 |              | 5.407            |                  |    |          | ND                |       |

| Compound                        | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | OnCol Amt<br>ug/l | Flags |
|---------------------------------|-----|--------------|------------------|------------------|---|----------|-------------------|-------|
| 50 1,1-Dichloropropene          | 75  |              | 5.407            |                  |   |          | ND                |       |
| 53 1,2-Dichloroethane           | 62  |              | 5.585            |                  |   |          | ND                |       |
| 54 Benzene                      | 78  |              | 5.585            |                  |   |          | ND                |       |
| 55 Tert-amyl methyl ether       | 73  |              | 5.668            |                  |   |          | ND                |       |
| 58 Trichloroethene              | 130 |              | 6.130            |                  |   |          | ND                |       |
| 61 1,2-Dichloropropane          | 63  |              | 6.320            |                  |   |          | ND                |       |
| 63 Dibromomethane               | 93  |              | 6.427            |                  |   |          | ND                |       |
| 65 Dichlorobromomethane         | 83  |              | 6.545            |                  |   |          | ND                |       |
| 67 2-Chloroethyl vinyl ether    | 63  |              | 6.794            |                  |   |          | ND                |       |
| 68 cis-1,3-Dichloropropene      | 75  |              | 6.936            |                  |   |          | ND                |       |
| 69 4-Methyl-2-pentanone (MIBK)  | 43  |              | 7.067            |                  |   |          | ND                |       |
| 70 Toluene                      | 91  |              | 7.245            |                  |   |          | ND                |       |
| 71 trans-1,3-Dichloropropene    | 75  |              | 7.423            |                  |   |          | ND                |       |
| 75 Tetrachloroethene            | 164 |              | 7.743            |                  |   |          | ND                |       |
| 74 1,3-Dichloropropane          | 76  |              | 7.755            |                  |   |          | ND                |       |
| 76 2-Hexanone                   | 43  |              | 7.802            |                  |   |          | ND                |       |
| 78 Chlorodibromomethane         | 129 |              | 7.968            |                  |   |          | ND                |       |
| 80 Ethylene Dibromide           | 107 |              | 8.087            |                  |   |          | ND                |       |
| 82 Chlorobenzene                | 112 |              | 8.526            |                  |   |          | ND                |       |
| 83 1,1,1,2-Tetrachloroethane    | 131 |              | 8.597            |                  |   |          | ND                |       |
| 84 Ethylbenzene                 | 106 |              | 8.620            |                  |   |          | ND                |       |
| 85 m-Xylene & p-Xylene          | 106 |              | 8.727            |                  |   |          | ND                |       |
| 86 o-Xylene                     | 106 |              | 9.107            |                  |   |          | ND                |       |
| 87 Styrene                      | 104 |              | 9.118            |                  |   |          | ND                |       |
| 88 Bromoform                    | 173 |              | 9.308            |                  |   |          | ND                |       |
| 89 Isopropylbenzene             | 105 |              | 9.462            |                  |   |          | ND                |       |
| 92 1,1,2,2-Tetrachloroethane    | 83  |              | 9.735            |                  |   |          | ND                |       |
| 93 Bromobenzene                 | 156 |              | 9.771            |                  |   |          | ND                |       |
| 95 1,2,3-Trichloropropane       | 110 |              | 9.783            |                  |   |          | ND                |       |
| 96 N-Propylbenzene              | 120 |              | 9.854            |                  |   |          | ND                |       |
| 97 2-Chlorotoluene              | 126 |              | 9.949            |                  |   |          | ND                |       |
| 100 4-Chlorotoluene             | 126 |              | 10.055           |                  |   |          | ND                |       |
| 102 tert-Butylbenzene           | 119 |              | 10.352           |                  |   |          | ND                |       |
| 104 1,2,4-Trimethylbenzene      | 105 |              | 10.399           |                  |   |          | ND                |       |
| 105 sec-Butylbenzene            | 105 |              | 10.565           |                  |   |          | ND                |       |
| 106 1,3-Dichlorobenzene         | 146 |              | 10.684           |                  |   |          | ND                |       |
| 107 4-Isopropyltoluene          | 119 |              | 10.707           |                  |   |          | ND                |       |
| 108 1,4-Dichlorobenzene         | 146 |              | 10.767           |                  |   |          | ND                |       |
| 109 1,2,3-Trimethylbenzene      | 105 |              | 10.814           |                  |   |          | ND                |       |
| 111 n-Butylbenzene              | 91  |              | 11.111           |                  |   |          | ND                |       |
| 112 1,2-Dichlorobenzene         | 146 |              | 11.146           |                  |   |          | ND                |       |
| 113 1,2-Dibromo-3-Chloropropan  | 157 |              | 11.917           |                  |   |          | ND                |       |
| 115 1,2,4-Trichlorobenzene      | 180 |              | 12.747           |                  |   |          | ND                |       |
| 116 Hexachlorobutadiene         | 225 |              | 12.925           |                  |   |          | ND                |       |
| 117 Naphthalene                 | 128 |              | 13.008           |                  |   |          | ND                |       |
| 118 1,2,3-Trichlorobenzene      | 180 |              | 13.281           |                  |   |          | ND                |       |
| S 133 Xylenes, Total            | 106 |              | 16.950           |                  |   |          | ND                |       |
| T 125 Chlorodifluoromethane TIC | 51  |              | 1.800            |                  |   |          | ND                |       |

# Sample Report

## Sample Table

Sample Name 240-98276-d-32-a  
 Data File Name 207SMPL.d  
 Data Path Name D:\Analytical Runs\I10071718A.b  
 Acq Date Time 2018-07-18T02:03:04-04:00  
 Sample Type Sample  
 Dilution 1  
 Comment  
 ISTD Ref FileName 002CALB.d  
 Sample QC Pass/Fail Pass  
 ISTD Pass/Fail Pass

## QC Analyte Table

| Name | Mass | ISTD Mass | Tune Step | Tune Mode | Conc       | FinalConc  | Conc %RSD | CPS       | %RSD | LDR    | QC Flag |
|------|------|-----------|-----------|-----------|------------|------------|-----------|-----------|------|--------|---------|
| Li   | 7    | 6         | 2         | NoGas     | 8.643      | 8.643      | 2.30      | 318706    | 0.00 | 10000  |         |
| Be   | 9    | 6         | 2         | NoGas     | 0.071      | 0.071      | 7.12      | 734       | 0.01 | 2000   |         |
| B    | 11   | 45        | 2         | NoGas     | 201.725    | 201.725    | 1.24      | 665718    | 0.03 | 300    |         |
| Na   | 23   | 45        | 1         | He        | 370891.085 | 370891.085 | 0.77      | 426293567 | 0.09 | 500000 |         |
| Mg   | 24   | 45        | 1         | He        | 47086.026  | 47086.026  | 0.48      | 27724648  | 0.17 | 500000 |         |
| Al   | 27   | 45        | 1         | He        | 14.108     | 14.108     | 6.35      | 5939      | 0.24 | 200000 |         |
| K    | 39   | 45        | 1         | He        | 15334.956  | 15334.956  | 0.83      | 12543726  | 0.12 | 500000 |         |
| Ca   | 44   | 45        | 1         | He        | 25986.637  | 25986.637  | 0.14      | 518135    | 5.02 | 500000 |         |
| Ti   | 47   | 45        | 1         | He        | 0.282      | 0.282      | 11.93     | 79        | 0.36 | 2500   |         |
| V    | 51   | 45        | 1         | He        | 0.766      | 0.766      | 17.69     | 4601      | 0.02 | 10000  |         |
| Cr   | 52   | 45        | 1         | He        | 0.170      | 0.170      | 4.65      | 2629      | 0.01 | 10000  |         |
| Mn   | 55   | 45        | 1         | He        | 2.753      | 2.753      | 1.42      | 17706     | 0.02 | 10000  |         |
| Fe   | 56   | 45        | 1         | He        | 5.286      | 5.286      | 4.15      | 113051    | 0.00 | 200000 |         |
| Co   | 59   | 45        | 1         | He        | 0.039      | 0.039      | 29.68     | 969       | 0.00 | 5000   |         |
| Ni   | 60   | 45        | 1         | He        | 0.686      | 0.686      | 8.27      | 3323      | 0.02 | 10000  |         |
| Cu   | 63   | 45        | 1         | He        | 5.739      | 5.739      | 1.79      | 35527     | 0.02 | 10000  |         |
| Zn   | 66   | 45        | 1         | He        | 3.635      | 3.635      | 3.07      | 5620      | 0.06 | 10000  |         |
| As   | 75   | 45        | 1         | He        | 1.305      | 1.305      | 8.83      | 1400      | 0.09 | 10000  |         |
| Se   | 78   | 45        | 1         | He        | 0.370      | 0.370      | 31.93     | 198       | 0.19 | 10000  |         |
| Sr   | 88   | 45        | 1         | He        | 399.234    | 399.234    | 1.47      | 2458868   | 0.02 | 10000  |         |
| Mo   | 95   | 103       | 1         | He        | 1.728      | 1.728      | 3.18      | 5594      | 0.03 | 2000   |         |
| Ag   | 107  | 103       | 1         | He        | 0.001      | 0.001      | 153.24    | 33        | 0.00 | 100    |         |
| Cd   | 111  | 115       | 1         | He        | 0.064      | 0.064      | 6.82      | 115       | 0.06 | 4000   |         |
| Sn   | 118  | 115       | 1         | He        | 0.434      | 0.434      | 35.69     | 2104      | 0.02 | 2000   |         |
| Sb   | 123  | 159       | 1         | He        | 0.211      | 0.211      | 11.58     | 999       | 0.02 | 200    |         |
| Ba   | 137  | 115       | 1         | He        | 13.881     | 13.881     | 0.80      | 20697     | 0.07 | 10000  |         |
| W    | 182  | 159       | 1         | He        | 0.126      | 0.126      | 7.32      | 1215      | 0.01 | 2500   |         |
| Tl   | 205  | 165       | 1         | He        | 0.005      | 0.005      | 21.19     | 154       | 0.00 | 2000   |         |
| Pb   | 208  | 165       | 1         | He        | 0.036      | 0.036      | 10.98     | 1379      | 0.00 | 4000   |         |

## QC ISTD Table

| Name | Mass | Tune Step | Tune Mode | CPS      | %RSD | Ref CPS  | %Rec  | %QC Low | %QC High | QC Flag |
|------|------|-----------|-----------|----------|------|----------|-------|---------|----------|---------|
| Li   | 6    | 2         | NoGas     | 2086718  | 0.99 | 3005065  | 69.44 | 60      | 120      |         |
| Sc   | 45   | 1         | He        | 1783810  | 0.58 | 2436810  | 73.20 | 60      | 120      |         |
| Sc   | 45   | 2         | NoGas     | 16341915 | 0.93 | 20695305 | 78.96 | 60      | 120      |         |
| Rh   | 103  | 1         | He        | 3980646  | 1.82 | 4819325  | 82.60 | 60      | 120      |         |
| In   | 115  | 1         | He        | 2431236  | 0.77 | 2911661  | 83.50 | 60      | 120      |         |
| Tb   | 159  | 1         | He        | 4877282  | 1.30 | 5313228  | 91.80 | 60      | 120      |         |
| Ho   | 165  | 1         | He        | 4611622  | 1.31 | 4704532  | 98.03 | 60      | 120      |         |
| Bi   | 209  | 1         | He        | 2672818  | 2.07 | 3205597  | 83.38 | 60      | 120      |         |

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4.6/4.6  
3.6/3.6  
1.8/1.8

## Chain of Custody Record

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|                                                                                                                                                                                                                      |  |                                        |                    |                                                                                                           |               |                       |                                                                                                                                                 |                        |   |                        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------|---------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---|------------------------|--|
| <b>Client Contact</b>                                                                                                                                                                                                |  | <b>Project Manager: Tony Apanavage</b> |                    | <b>Site Contact: Tony Apanavage</b>                                                                       |               | <b>Date: 7/9/2018</b> |                                                                                                                                                 | <b>COC No:</b>         |   |                        |  |
| Tetra Tech                                                                                                                                                                                                           |  | Tel/Fax: 301-233-8230 (cell)           |                    | Lab Contact: John McFadden                                                                                |               | Carrier: Fedex        |                                                                                                                                                 | 1 of 4 COCs            |   |                        |  |
| 20251 Century Blvd, Suite 200                                                                                                                                                                                        |  | <b>Analysis Turnaround Time</b>        |                    | <b>Filtered Sample</b><br>VOCs + Freon 113/22 + TIC (8260C)<br>Dissolved Metals (6020B/7470A)<br>Hardness |               | 180325<br>BALTIMORE   |                                                                                                                                                 | Job No.                |   |                        |  |
| Germantown, MD 20874                                                                                                                                                                                                 |  | Calendar (C) or Work Days (W)          |                    |                                                                                                           |               |                       |                                                                                                                                                 | SDG No.                |   |                        |  |
| (301) 528-3021 Phone                                                                                                                                                                                                 |  | TAT if different from Below: STANDARD  |                    |                                                                                                           |               |                       |                                                                                                                                                 | Sampler: MULLIS        |   |                        |  |
| (301) 528-3000 FAX                                                                                                                                                                                                   |  | <input type="checkbox"/> 2 weeks       |                    |                                                                                                           |               |                       |                                                                                                                                                 | Sample Specific Notes: |   |                        |  |
| Project Name: MSA Surface Water Sampling                                                                                                                                                                             |  | <input type="checkbox"/> 1 week        |                    |                                                                                                           |               |                       |                                                                                                                                                 |                        |   |                        |  |
| Site: MSA Frog Mortar Creek                                                                                                                                                                                          |  | <input type="checkbox"/> 2 days        |                    |                                                                                                           |               |                       |                                                                                                                                                 |                        |   |                        |  |
| Project # 112IC08424                                                                                                                                                                                                 |  | <input type="checkbox"/> 1 day         |                    |                                                                                                           |               |                       |                                                                                                                                                 |                        |   |                        |  |
| <b>Sample Identification</b>                                                                                                                                                                                         |  | <b>Sample Date</b>                     | <b>Sample Time</b> | <b>Sample Type</b>                                                                                        | <b>Matrix</b> | <b># of Cont.</b>     |                                                                                                                                                 |                        |   |                        |  |
| MSA-SW37A-070918                                                                                                                                                                                                     |  | 7/9/2018                               | 1300               | SW                                                                                                        | Water         | 4                     | x                                                                                                                                               | x                      | x | x                      |  |
| MSA-SW37B-070918                                                                                                                                                                                                     |  | 7/9/2018                               | 1305               | SW                                                                                                        | Water         | 4                     | x                                                                                                                                               | x                      | x | x                      |  |
| MSA-SW37C-070918                                                                                                                                                                                                     |  | 7/9/2018                               | 1309               | SW                                                                                                        | Water         | 4                     | x                                                                                                                                               | x                      | x | x                      |  |
| MSA-SW37D-070918                                                                                                                                                                                                     |  | 7/9/2018                               | 1315               | SW                                                                                                        | Water         | 4                     | x                                                                                                                                               | x                      | x | x                      |  |
| MSA-SW38A-070918                                                                                                                                                                                                     |  | 7/9/2018                               | 1147               | SW                                                                                                        | Water         | 4                     | x                                                                                                                                               | x                      | x | x                      |  |
| MSA-SW38B-070918                                                                                                                                                                                                     |  | 7/9/2018                               | 1151               | SW                                                                                                        | Water         | 4                     | x                                                                                                                                               | x                      | x | x                      |  |
| MSA-SW38C-070918                                                                                                                                                                                                     |  | 7/9/2018                               | 1156               | SW                                                                                                        | Water         | 4                     | x                                                                                                                                               | x                      | x | x                      |  |
| MSA-SW38D-070918                                                                                                                                                                                                     |  | 7/9/2018                               | 1203               | SW                                                                                                        | Water         | 4                     | x                                                                                                                                               | x                      | x | x                      |  |
| MSA-SW39A-070918                                                                                                                                                                                                     |  | 7/9/2018                               | 0938               | SW                                                                                                        | Water         | 4                     | x                                                                                                                                               | x                      | x | x                      |  |
| MSA-SW39B-070918                                                                                                                                                                                                     |  | 7/9/2018                               | 0944               | SW                                                                                                        | Water         | 4                     | x                                                                                                                                               | x                      | x | x                      |  |
| MSA-SW39C-070918                                                                                                                                                                                                     |  | 7/9/2018                               | 0950               | SW                                                                                                        | Water         | 4                     | x                                                                                                                                               | x                      | x | x                      |  |
| MSA-SW39D-070918                                                                                                                                                                                                     |  | 7/9/2018                               | 0956               | SW                                                                                                        | Water         | 4                     | x                                                                                                                                               | x                      | x | x                      |  |
| <b>Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other</b>                                                                                                                                       |  |                                        |                    |                                                                                                           |               |                       | 2                                                                                                                                               | 4                      | 4 |                        |  |
| <b>Possible Hazard Identification</b>                                                                                                                                                                                |  |                                        |                    |                                                                                                           |               |                       | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>                                                      |                        |   |                        |  |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> |  |                                        |                    |                                                                                                           |               |                       | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                        |   |                        |  |
| <b>Special Instructions/QC Requirements &amp; Comments: DISSOLVED METALS FILTERED IN FIELD</b>                                                                                                                       |  |                                        |                    |                                                                                                           |               |                       |                                                                                                                                                 |                        |   |                        |  |
| Relinquished by:                                                                                                                                                                                                     |  | Company: Tetra Tech Inc                |                    | Date/Time: 7/9/18 1500                                                                                    |               | Received by:          |                                                                                                                                                 | Company:               |   | Date/Time: 7/9/18 1500 |  |
| Relinquished by:                                                                                                                                                                                                     |  | Company:                               |                    | Date/Time: 7/9/18 1640                                                                                    |               | Received by:          |                                                                                                                                                 | Company:               |   | Date/Time: 7/10/18 925 |  |
| Relinquished by:                                                                                                                                                                                                     |  | Company:                               |                    | Date/Time:                                                                                                |               | Received by:          |                                                                                                                                                 | Company:               |   | Date/Time:             |  |



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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------|--------------------|----------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------|---|-------------------------|--|
| <b>Client Contact</b>                                                                                                                                                                       |          | <b>Project Manager: Tony Apanavage</b> |                    | <b>Site Contact: Tony Apanavage</b>                                                                |               | <b>Date: 7/9/2018</b>                                                                                                                           |   | <b>COC No:</b>         |   |                         |  |
| Tetra Tech                                                                                                                                                                                  |          | Tel/Fax: 301-233-8230 (cell)           |                    | Lab Contact: John McFadden                                                                         |               | Carrier: Fedex                                                                                                                                  |   | 2 of 4 COCs            |   |                         |  |
| 20251 Century Blvd, Suite 200                                                                                                                                                               |          | <b>Analysis Turnaround Time</b>        |                    | Filtered Sample<br>VOCs + Freon 113/22 + TIC (8260C)<br>Dissolved Metals (6020B/7470A)<br>Hardness |               | 180325<br>BALTIMORE                                                                                                                             |   | Job No.                |   |                         |  |
| Germantown, MD 20874                                                                                                                                                                        |          | Calendar (C) or Work Days (W)          |                    |                                                                                                    |               |                                                                                                                                                 |   | SDG No.                |   |                         |  |
| (301) 528-3021 Phone                                                                                                                                                                        |          | TAT if different from Below STANDARD   |                    |                                                                                                    |               |                                                                                                                                                 |   | Sampler: Mullis        |   |                         |  |
| (301) 528-3000 FAX                                                                                                                                                                          |          | <input type="checkbox"/> 2 weeks       |                    |                                                                                                    |               |                                                                                                                                                 |   | Sample Specific Notes: |   |                         |  |
| Project Name: MSA Surface Water Sampling                                                                                                                                                    |          | <input type="checkbox"/> 1 week        |                    |                                                                                                    |               |                                                                                                                                                 |   |                        |   |                         |  |
| Site: MSA Frog Mortar Creek                                                                                                                                                                 |          | <input type="checkbox"/> 2 days        |                    |                                                                                                    |               |                                                                                                                                                 |   |                        |   |                         |  |
| Project # 112IC08424                                                                                                                                                                        |          | <input type="checkbox"/> 1 day         |                    |                                                                                                    |               |                                                                                                                                                 |   |                        |   |                         |  |
| <b>Sample Identification</b>                                                                                                                                                                |          | <b>Sample Date</b>                     | <b>Sample Time</b> | <b>Sample Type</b>                                                                                 | <b>Matrix</b> | <b># of Cont.</b>                                                                                                                               |   |                        |   |                         |  |
| MSA-SW40A-070918                                                                                                                                                                            | 7/9/2018 | 1215                                   | SW                 | Water                                                                                              | 4             | x                                                                                                                                               | x | x                      | x |                         |  |
| MSA-SW40B-070918                                                                                                                                                                            | 7/9/2018 | 1218                                   | SW                 | Water                                                                                              | 4             | x                                                                                                                                               | x | x                      | x |                         |  |
| MSA-SW40C-070918                                                                                                                                                                            | 7/9/2018 | 1223                                   | SW                 | Water                                                                                              | 4             | x                                                                                                                                               | x | x                      | x |                         |  |
| MSA-SW40D-070918                                                                                                                                                                            | 7/9/2018 | 1228                                   | SW                 | Water                                                                                              | 4             | x                                                                                                                                               | x | x                      | x |                         |  |
| MSA-SW41A-070918                                                                                                                                                                            | 7/9/2018 | 1121                                   | SW                 | Water                                                                                              | 4             | x                                                                                                                                               | x | x                      | x |                         |  |
| MSA-SW41B-070918                                                                                                                                                                            | 7/9/2018 | 1127                                   | SW                 | Water                                                                                              | 4             | x                                                                                                                                               | x | x                      | x |                         |  |
| MSA-SW41C-070918                                                                                                                                                                            | 7/9/2018 | 1132                                   | SW                 | Water                                                                                              | 4             | x                                                                                                                                               | x | x                      | x |                         |  |
| MSA-SW41D-070918                                                                                                                                                                            | 7/9/2018 | 1138                                   | SW                 | Water                                                                                              | 4             | x                                                                                                                                               | x | x                      | x |                         |  |
| MSA-SW42A-070918                                                                                                                                                                            | 7/9/2018 | 1235                                   | SW                 | Water                                                                                              | 4             | x                                                                                                                                               | x | x                      | x |                         |  |
| MSA-SW42B-070918                                                                                                                                                                            | 7/9/2018 | 1244                                   | SW                 | Water                                                                                              | 4             | x                                                                                                                                               | x | x                      | x |                         |  |
| MSA-SW42C-070918                                                                                                                                                                            | 7/9/2018 | 1248                                   | SW                 | Water                                                                                              | 4             | x                                                                                                                                               | x | x                      | x |                         |  |
| MSA-SW42D-070918                                                                                                                                                                            | 7/9/2018 | 1253                                   | SW                 | Water                                                                                              | 4             | x                                                                                                                                               | x | x                      | x |                         |  |
| <b>Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other</b>                                                                                                              |          |                                        |                    |                                                                                                    |               | 2 4 4                                                                                                                                           |   |                        |   |                         |  |
| <b>Possible Hazard Identification</b>                                                                                                                                                       |          |                                        |                    |                                                                                                    |               | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>                                                      |   |                        |   |                         |  |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown |          |                                        |                    |                                                                                                    |               | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |   |                        |   |                         |  |
| <b>Special Instructions/QC Requirements &amp; Comments: DISSOLVED METALS FILTERED IN FIELD</b>                                                                                              |          |                                        |                    |                                                                                                    |               |                                                                                                                                                 |   |                        |   |                         |  |
| Relinquished by:                                                                                                                                                                            |          | Company: Tetra Tech Inc                |                    | Date/Time: 7/9/18 1540                                                                             |               | Received by:                                                                                                                                    |   | Company: TAC           |   | Date/Time: 7/10/18 1500 |  |
| Relinquished by:                                                                                                                                                                            |          | Company: TAC                           |                    | Date/Time: 7/9/18 1640                                                                             |               | Received by:                                                                                                                                    |   | Company: TAC           |   | Date/Time: 7/10/18 925  |  |
| Relinquished by:                                                                                                                                                                            |          | Company:                               |                    | Date/Time:                                                                                         |               | Received by:                                                                                                                                    |   | Company:               |   | Date/Time:              |  |

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## Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

| <b>Client Contact</b>                                                                                                                                                                       |                | <b>Project Manager: Tony Apanavage</b>                                                                                                   |              | <b>Site Contact: Tony Apanavage</b>                                                                                                                                                                                                                                                                 |             | <b>Date: 7/9/2018</b>                                                                                                                                                                                                                                         |                                   | <b>COC No:</b>                                                              |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------|----------|
| Tetra Tech                                                                                                                                                                                  |                | Tel/Fax: 301-233-8230 (cell)                                                                                                             |              | Lab Contact: John McFadden                                                                                                                                                                                                                                                                          |             | Carrier: Fedex                                                                                                                                                                                                                                                |                                   | 3 of 4 COCs                                                                 |          |
| 20251 Century Blvd, Suite 200                                                                                                                                                               |                | <b>Analysis Turnaround Time</b>                                                                                                          |              | <div style="position: relative; height: 150px;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em; opacity: 0.5;">180325</div> <div style="position: absolute; bottom: 10%; left: 10%; font-size: 1.5em; opacity: 0.5;">BALTIMORE</div> </div> |             | <div style="position: relative; height: 150px;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 1.2em;"> VOCs + Freon 113/22 + TIC (8260C)<br/> Dissolved Metals (6020B/7470A)<br/> Hardness </div> </div> |                                   | Job No.<br><br>SDG No.<br><br>Sampler: Mullis<br><br>Sample Specific Notes: |          |
| Germantown, MD 20874                                                                                                                                                                        |                | Calendar ( C ) or Work Days (W)                                                                                                          |              |                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                               |                                   |                                                                             |          |
| (301) 528-3021 Phone                                                                                                                                                                        |                | TAT if different from Below <u>STANDARD</u>                                                                                              |              |                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                               |                                   |                                                                             |          |
| (301) 528-3000 FAX                                                                                                                                                                          |                | <input type="checkbox"/> 2 weeks<br><input type="checkbox"/> 1 week<br><input type="checkbox"/> 2 days<br><input type="checkbox"/> 1 day |              |                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                               |                                   |                                                                             |          |
| Project Name: MSA Surface Water Sampling                                                                                                                                                    |                |                                                                                                                                          |              |                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                               |                                   |                                                                             |          |
| Site: MSA Frog Mortar Creek                                                                                                                                                                 |                |                                                                                                                                          |              |                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                               |                                   |                                                                             |          |
| Project # 112IC08424                                                                                                                                                                        |                |                                                                                                                                          |              |                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                               |                                   |                                                                             |          |
| Sample Identification                                                                                                                                                                       | Sample Date    | Sample Time                                                                                                                              | Sample Type  | Matrix                                                                                                                                                                                                                                                                                              | # of Cont.  | Filtered Sample                                                                                                                                                                                                                                               | VOCs + Freon 113/22 + TIC (8260C) | Dissolved Metals (6020B/7470A)                                              | Hardness |
| MSA-SW43A-070918                                                                                                                                                                            | 7/9/2018       | 1050                                                                                                                                     | SW           | Water                                                                                                                                                                                                                                                                                               | 4           | x                                                                                                                                                                                                                                                             | x                                 | x                                                                           | x        |
| MSA-SW43B-070918                                                                                                                                                                            | 7/9/2018       | 1058                                                                                                                                     | SW           | Water                                                                                                                                                                                                                                                                                               | 4           | x                                                                                                                                                                                                                                                             | x                                 | x                                                                           | x        |
| MSA-SW43C-070918                                                                                                                                                                            | 7/9/2018       | 1105                                                                                                                                     | SW           | Water                                                                                                                                                                                                                                                                                               | 4           | x                                                                                                                                                                                                                                                             | x                                 | x                                                                           | x        |
| MSA-SW43D-070918                                                                                                                                                                            | 7/9/2018       | 1111                                                                                                                                     | SW           | Water                                                                                                                                                                                                                                                                                               | 4           | x                                                                                                                                                                                                                                                             | x                                 | x                                                                           | x        |
| MSA-SW44A-070918                                                                                                                                                                            | 7/9/2018       | 1027                                                                                                                                     | SW           | Water                                                                                                                                                                                                                                                                                               | 4           | x                                                                                                                                                                                                                                                             | x                                 | x                                                                           | x        |
| MSA-SW44B-070918                                                                                                                                                                            | 7/9/2018       | 1032                                                                                                                                     | SW           | Water                                                                                                                                                                                                                                                                                               | 4           | x                                                                                                                                                                                                                                                             | x                                 | x                                                                           | x        |
| MSA-SW44C-070918                                                                                                                                                                            | 7/9/2018       | 1036                                                                                                                                     | SW           | Water                                                                                                                                                                                                                                                                                               | 4           | x                                                                                                                                                                                                                                                             | x                                 | x                                                                           | x        |
| MSA-SW44D-070918                                                                                                                                                                            | 7/9/2018       | 1042                                                                                                                                     | SW           | Water                                                                                                                                                                                                                                                                                               | 4           | x                                                                                                                                                                                                                                                             | x                                 | x                                                                           | x        |
| MSA-SW45A-070918                                                                                                                                                                            | 7/9/2018       | 1003                                                                                                                                     | SW           | Water                                                                                                                                                                                                                                                                                               | 4           | x                                                                                                                                                                                                                                                             | x                                 | x                                                                           | x        |
| MSA-SW45B-070918                                                                                                                                                                            | 7/9/2018       | 1008                                                                                                                                     | SW           | Water                                                                                                                                                                                                                                                                                               | 4           | x                                                                                                                                                                                                                                                             | x                                 | x                                                                           | x        |
| MSA-SW45C-070918                                                                                                                                                                            | 7/9/2018       | 1014                                                                                                                                     | SW           | Water                                                                                                                                                                                                                                                                                               | 4           | x                                                                                                                                                                                                                                                             | x                                 | x                                                                           | x        |
| MSA-SW45D-070918                                                                                                                                                                            | 7/9/2018       | 1018                                                                                                                                     | SW           | Water                                                                                                                                                                                                                                                                                               | 4           | x                                                                                                                                                                                                                                                             | x                                 | x                                                                           | x        |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other                                                                                                                     |                |                                                                                                                                          |              |                                                                                                                                                                                                                                                                                                     |             | 2 4 4                                                                                                                                                                                                                                                         |                                   |                                                                             |          |
| Possible Hazard Identification                                                                                                                                                              |                |                                                                                                                                          |              |                                                                                                                                                                                                                                                                                                     |             | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)                                                                                                                                                                          |                                   |                                                                             |          |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown |                |                                                                                                                                          |              |                                                                                                                                                                                                                                                                                                     |             | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months                                                                                                               |                                   |                                                                             |          |
| Special Instructions/QC Requirements & Comments: <b>DISSOLVED METALS FILTERED IN FIELD</b>                                                                                                  |                |                                                                                                                                          |              |                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                               |                                   |                                                                             |          |
| Relinquished by:                                                                                                                                                                            | Company:       | Date/Time:                                                                                                                               | Received by: | Company:                                                                                                                                                                                                                                                                                            | Date/Time:  |                                                                                                                                                                                                                                                               |                                   |                                                                             |          |
|                                                                                                                                                                                             | Tetra Tech Inc | 7/9/18 1500                                                                                                                              |              | Tetra Tech Inc                                                                                                                                                                                                                                                                                      | 7/9/18 1500 |                                                                                                                                                                                                                                                               |                                   |                                                                             |          |
| Relinquished by:                                                                                                                                                                            | Company:       | Date/Time:                                                                                                                               | Received by: | Company:                                                                                                                                                                                                                                                                                            | Date/Time:  |                                                                                                                                                                                                                                                               |                                   |                                                                             |          |
|                                                                                                                                                                                             | TA             | 7/9/18 1640                                                                                                                              |              | TA                                                                                                                                                                                                                                                                                                  | 7/10/18 925 |                                                                                                                                                                                                                                                               |                                   |                                                                             |          |
| Relinquished by:                                                                                                                                                                            | Company:       | Date/Time:                                                                                                                               | Received by: | Company:                                                                                                                                                                                                                                                                                            | Date/Time:  |                                                                                                                                                                                                                                                               |                                   |                                                                             |          |
|                                                                                                                                                                                             |                |                                                                                                                                          |              |                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                               |                                   |                                                                             |          |

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THE LEADER IN ENVIRONMENTAL TESTING

**TestAmerica Laboratories, Inc.**

| Client Contact                                                                                                                                                                              |             | Project Manager: Tony Apanavage       |             | Site Contact: Tony Apanavage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | Date: 7/9/2018                                                                                                                                  |   | COC No:             |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------|--|
| Tetra Tech                                                                                                                                                                                  |             | Tel/Fax: 301-233-8230 (cell)          |             | Lab Contact: John McFadden                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            | Carrier: Fedex                                                                                                                                  |   | 4 of 4 COCs         |  |
| 20251 Century Blvd, Suite 200                                                                                                                                                               |             | Analysis Turnaround Time              |             | <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Filtered Sample VOCs (\$260C)</div> <div style="margin-left: 10px;"> <div style="border: 1px solid black; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; font-size: 24px;">180325</div> <div style="border: 1px solid black; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; font-size: 24px; margin-top: 10px;">BALTIMORE</div> </div> </div> |            | Job No.                                                                                                                                         |   |                     |  |
| Germantown, MD 20874                                                                                                                                                                        |             | Calendar ( C ) or Work Days (W)       |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | SDG No.                                                                                                                                         |   |                     |  |
| (301) 528-3021 Phone                                                                                                                                                                        |             | TAT if different from Below: STANDARD |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | Sampler: Mullis                                                                                                                                 |   |                     |  |
| (301) 528-3000 FAX                                                                                                                                                                          |             | <input type="checkbox"/> 2 weeks      |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                                                                                 |   |                     |  |
| Project Name: MSA Surface Water Sampling                                                                                                                                                    |             | <input type="checkbox"/> 1 week       |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                                                                                 |   |                     |  |
| Site: MSA Frog Mortar Creek                                                                                                                                                                 |             | <input type="checkbox"/> 2 days       |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                                                                                 |   |                     |  |
| Project # 112IC08424                                                                                                                                                                        |             | <input type="checkbox"/> 1 day        |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | Sample Specific Notes:                                                                                                                          |   |                     |  |
| Sample Identification                                                                                                                                                                       | Sample Date | Sample Time                           | Sample Type | Matrix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | # of Cont. |                                                                                                                                                 |   |                     |  |
| EL-SW01A-070918                                                                                                                                                                             | 7/9/2018    | 0918                                  | SW          | AQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3          | x                                                                                                                                               |   |                     |  |
| EL-SW01B-070918                                                                                                                                                                             | 7/9/2018    | 0922                                  | SW          | AQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3          | x                                                                                                                                               |   |                     |  |
| EL-SW01C-070918                                                                                                                                                                             | 7/9/2018    | 0925                                  | SW          | AQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3          | x                                                                                                                                               |   |                     |  |
| EL-SW01D-070918                                                                                                                                                                             | 7/9/2018    | 0928                                  | SW          | AQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3          | x                                                                                                                                               |   |                     |  |
| TB-070918                                                                                                                                                                                   | --          | --                                    | TB          | AQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2          | x                                                                                                                                               |   |                     |  |
| MSA-SW46A-070918                                                                                                                                                                            | 7/9/2018    | 1234                                  | SW          | AQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3          | x                                                                                                                                               |   |                     |  |
| MSA-SW47A-070918                                                                                                                                                                            | 7/9/2018    | 1211                                  | SW          | AQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3          | x                                                                                                                                               |   |                     |  |
| MSA-SW48A-070918                                                                                                                                                                            | 7/9/2018    | 1143                                  | SW          | AQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3          | x                                                                                                                                               |   |                     |  |
| MSA-SW49A-070918                                                                                                                                                                            | 7/9/2018    | 1117                                  | SW          | AQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3          | x                                                                                                                                               |   |                     |  |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other                                                                                                                       |             |                                       |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 2                                                                                                                                               | 1 |                     |  |
| Possible Hazard Identification                                                                                                                                                              |             |                                       |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)                                                            |   |                     |  |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown |             |                                       |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |   |                     |  |
| Special Instructions/QC Requirements & Comments: DISSOLVED METALS FILTERED IN FIELD, samples on this page to be analyzed for VOCs ONLY                                                      |             |                                       |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                                                                                 |   |                     |  |
| Relinquished by:                                                                                                                                                                            |             | Company: Tetra Tech Inc.              |             | Date/Time: 7/9/18 1500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | Received by:                                                                                                                                    |   | Company: Tetra Tech |  |
| Relinquished by:                                                                                                                                                                            |             | Company: Tetra Tech Inc.              |             | Date/Time: 7/9/18 1645                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | Received by:                                                                                                                                    |   | Company: Tetra Tech |  |
| Relinquished by:                                                                                                                                                                            |             | Company: Tetra Tech Inc.              |             | Date/Time: 7/10/18 925                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | Received by:                                                                                                                                    |   | Company: Tetra Tech |  |

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

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**TestAmerica Canton Sample Receipt Form/Narrative**

 Login # : 98276
**Canton Facility**

 Client Tetra Tech Site Name \_\_\_\_\_ Cooler unpacked by: SL  
 Cooler Received on 7/10/18 Opened on 7/10/18  
 FedEx: 1<sup>st</sup> Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other \_\_\_\_\_

**Receipt After-hours: Drop-off Date/Time**
**Storage Location**

 TestAmerica Cooler # 1A Foam Box Client Cooler Box Other \_\_\_\_\_  
 Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_  
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

 1. Cooler temperature upon receipt ☒ See Multiple Cooler Form  
 IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C  
 IR GUN #36 (CF -0.3 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C  
 IR GUN # 627 (CF -1.3 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No  
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA  
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No  
 -Were tamper/custody seals intact and uncompromised? Yes No NA

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 &amp; signed in the appropriate place? Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels be reconciled with the COC? Yes No

9. Were correct bottle(s) used for the test(s) indicated? Yes No

10. Sufficient quantity received to perform indicated analyses? Yes No

11. Are these work share samples? Yes No

If yes, Questions 12-16 have been checked at the originating laboratory.

 12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC740840

13. Were VOAs on the COC? Yes No

 14. Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA

 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # B804801UB Yes No

16. Was a LL Hg or Me Hg trip blank present? Yes No

 Tests that are not  
checked for pH by  
Receiving:

 VOAs  
Oil and Grease  
TOC

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_

Concerning \_\_\_\_\_

**17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**

Samples processed by:

JR.
**18. 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)

**19. SAMPLE PRESERVATION**

 Sample(s) \_\_\_\_\_ were further preserved in the laboratory.  
 Time preserved: \_\_\_\_\_ Preservative(s) added/Lot number(s): \_\_\_\_\_

X:\X-Drive Document Control\SOPs\Work Instructions\Word Version Work Instructions\WT-NC-099H-071615 Cooler Receipt Form\_page 2 - Multiple Coolers.doc ris



Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u>  | <u>Container Type</u>            | <u>Container<br/>pH</u> | <u>Preservative<br/>Added (mls)</u> | <u>Lot #</u> |
|-------------------------|----------------|----------------------------------|-------------------------|-------------------------------------|--------------|
| MSA-SW37A-070918        | 240-98276-D-1  | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW37B-070918        | 240-98276-D-2  | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW37C-070918        | 240-98276-D-3  | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW37D-070918        | 240-98276-D-4  | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW38A-070918        | 240-98276-D-5  | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW38B-070918        | 240-98276-D-6  | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW38C-070918        | 240-98276-D-7  | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW38D-070918        | 240-98276-D-8  | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW39A-070918        | 240-98276-D-9  | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW39B-070918        | 240-98276-D-10 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW39C-070918        | 240-98276-D-11 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW39D-070918        | 240-98276-D-12 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW40A-070918        | 240-98276-D-13 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW40B-070918        | 240-98276-D-14 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW40C-070918        | 240-98276-D-15 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW40D-070918        | 240-98276-D-16 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW41A-070918        | 240-98276-D-17 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW41B-070918        | 240-98276-D-18 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW41C-070918        | 240-98276-D-19 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW41D-070918        | 240-98276-D-20 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW42A-070918        | 240-98276-D-21 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW42B-070918        | 240-98276-D-22 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW42C-070918        | 240-98276-D-23 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW42D-070918        | 240-98276-D-24 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW43A-070918        | 240-98276-D-25 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW43B-070918        | 240-98276-D-26 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW43C-070918        | 240-98276-D-27 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW43D-070918        | 240-98276-D-28 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW44A-070918        | 240-98276-D-29 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW44B-070918        | 240-98276-D-30 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW44C-070918        | 240-98276-D-31 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW44D-070918        | 240-98276-D-32 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW45A-070918        | 240-98276-D-33 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW45B-070918        | 240-98276-D-34 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW45C-070918        | 240-98276-D-35 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |
| MSA-SW45D-070918        | 240-98276-D-36 | Plastic 500ml - with Nitric Acid | <2                      | _____                               | _____        |

## CASE NARRATIVE

**Client: Tetra Tech, Inc.**

**Project: MSA Surface Water**

**Report Number: 240-98276-1**

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

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

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

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

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

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

### **RECEIPT**

The samples were received on 7/10/2018 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.8° C, 3.6° C and 4.6° C.

### **VOLATILE ORGANIC COMPOUNDS (GCMS)**

Samples MSA-SW37A-070918 (240-98276-1), MSA-SW37B-070918 (240-98276-2), MSA-SW37C-070918 (240-98276-3), MSA-SW37D-070918 (240-98276-4), MSA-SW38A-070918 (240-98276-5), MSA-SW38B-070918 (240-98276-6), MSA-SW38C-070918 (240-98276-7), MSA-SW38D-070918 (240-98276-8), MSA-SW39A-070918 (240-98276-9), MSA-SW39B-070918 (240-98276-10), MSA-SW39C-070918 (240-98276-11), MSA-SW39D-070918 (240-98276-12), MSA-SW40A-070918 (240-98276-13), MSA-SW40B-070918 (240-98276-14), MSA-SW40C-070918 (240-98276-15), MSA-SW40D-070918 (240-98276-16), MSA-SW41A-070918 (240-98276-17), MSA-SW41B-070918 (240-98276-18), MSA-SW41C-070918 (240-98276-19), MSA-SW41D-070918 (240-98276-20), MSA-SW42A-070918 (240-98276-21), MSA-SW42B-070918 (240-98276-22), MSA-SW42C-070918 (240-98276-23), MSA-SW42D-070918 (240-98276-24), MSA-SW43A-070918 (240-98276-25), MSA-SW43B-070918 (240-98276-26), MSA-SW43C-070918 (240-98276-27), MSA-SW43D-070918 (240-98276-28), MSA-SW44A-070918 (240-98276-29), MSA-SW44B-070918 (240-98276-30), MSA-SW44C-070918 (240-98276-31), MSA-SW44D-070918 (240-98276-32), MSA-SW45A-070918 (240-98276-33), MSA-SW45B-070918 (240-98276-34), MSA-SW45C-070918 (240-98276-35), MSA-SW45D-070918 (240-98276-36), EL-SW01A-070918 (240-98276-37), EL-SW01B-070918 (240-98276-38), EL-SW01C-070918 (240-98276-39), EL-SW01D-070918 (240-98276-40), TB-070918 (240-98276-41), MSA-SW46A-070918 (240-98276-42), MSA-SW47A-070918 (240-98276-43), MSA-SW48A-070918 (240-98276-44) and MSA-SW49A-070918 (240-98276-45) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 07/15/2018, 07/18/2018, 07/19/2018, 07/20/2018 and 07/23/2018.

The laboratory control sample (LCS) for analytical batch 240-337453 recovered outside control limits for the following analytes: cis-1,3-Dichloropropene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The following samples were received preserved with hydrochloric acid: MSA-SW37A-070918 (240-98276-1), MSA-SW37B-070918 (240-98276-2), MSA-SW37C-070918 (240-98276-3), MSA-SW37D-070918 (240-98276-4), MSA-SW38A-070918 (240-98276-5), MSA-SW38B-070918 (240-98276-6), MSA-SW38C-070918 (240-98276-7), MSA-SW38D-070918 (240-98276-8), MSA-SW39A-070918 (240-98276-9), MSA-SW39B-070918 (240-98276-10), MSA-SW39C-070918 (240-98276-11), MSA-SW39D-070918 (240-98276-12), MSA-SW40A-070918 (240-98276-13), MSA-SW40B-070918 (240-98276-14), MSA-SW40C-070918 (240-98276-15), MSA-SW40D-070918 (240-98276-16), MSA-SW41A-070918 (240-98276-17), MSA-SW41B-070918 (240-98276-18), MSA-SW41C-070918 (240-98276-19), MSA-SW41D-070918 (240-98276-20), MSA-SW42A-070918 (240-98276-21), MSA-SW42B-070918 (240-98276-22), MSA-SW42C-070918 (240-98276-23), MSA-SW42D-070918 (240-98276-24), MSA-SW43A-070918 (240-98276-25), MSA-SW43B-070918 (240-98276-26), MSA-SW43C-070918 (240-98276-27),

MSA-SW43D-070918 (240-98276-28), MSA-SW44A-070918 (240-98276-29), MSA-SW44B-070918 (240-98276-30), MSA-SW44C-070918 (240-98276-31), MSA-SW44D-070918 (240-98276-32), MSA-SW45A-070918 (240-98276-33), MSA-SW45B-070918 (240-98276-34), MSA-SW45C-070918 (240-98276-35), MSA-SW45D-070918 (240-98276-36), EL-SW01A-070918 (240-98276-37), EL-SW01B-070918 (240-98276-38), EL-SW01C-070918 (240-98276-39), EL-SW01D-070918 (240-98276-40), TB-070918 (240-98276-41), MSA-SW46A-070918 (240-98276-42), MSA-SW47A-070918 (240-98276-43), MSA-SW48A-070918 (240-98276-44) and MSA-SW49A-070918 (240-98276-45). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

The continuing calibration verification (CCV) analyzed in batch 240-336777 was outside the method criteria for the following analyte(s): Vinyl Chloride, Benzene, 1,1-Dichloroethene, 4-Methyl-2-pentanone, Hexachlorobutadiene and Bromomethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. MSA-SW38B-070918 (240-98276-6), MSA-SW38C-070918 (240-98276-7), MSA-SW38D-070918 (240-98276-8), MSA-SW39A-070918 (240-98276-9) and (CCVIS 240-336777/4)

The continuing calibration verification (CCV) analyzed in batch 240-336990 was outside the method criteria for the following analyte(s): Hexachlorobutadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 240-337214 was outside the method criteria for the following analyte(s): 1,1-Dichloroethene, 4-Methyl-2-pentanone and Hexachlorobutadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 240-337453 was outside the method criteria for the following analyte(s): Multiple Analytes. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 240-337453 was outside the method criteria for the following analyte(s): Carbon Disulfide, Vinyl Chloride and 1,1-Dichloroethene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. (240-98541-B-13)

The initial calibration (ICAL) did not pass the method calibration acceptance criteria for Hexachlorobutadiene. This variance only affects results measured above the reporting limit. A CCV standard at or below the reporting limit (RL) was analyzed with the samples and found to be acceptable. This demonstrates the reporting limit is valid for the affected analytes. The samples associated with the ICAL were non-detects for the affected analytes; therefore, the results have been reported. The following samples are impacted: MSA-SW38B-070918 (240-98276-6), MSA-SW38C-070918 (240-98276-7), MSA-SW38D-070918 (240-98276-8) and MSA-SW39A-070918 (240-98276-9).

The initial calibration (ICAL) did not pass the method calibration acceptance criteria for Hexachlorobutadiene. This variance only affects results measured above the reporting limit. A CCV standard at or below the reporting limit (RL) was analyzed with the samples and found to be acceptable. This demonstrates the reporting limit is valid for the affected analytes. The samples associated with the ICAL were non-detects for the affected analytes; therefore, the results have been reported. The following samples are impacted: MSA-SW39B-070918 (240-98276-10), MSA-SW39C-070918 (240-98276-11), MSA-SW39D-070918 (240-98276-12), MSA-SW40A-070918 (240-98276-13), MSA-SW40B-070918 (240-98276-14), MSA-SW40C-070918 (240-98276-15), MSA-SW40D-070918 (240-98276-16), MSA-SW41A-070918 (240-98276-17), MSA-SW41B-070918 (240-98276-18), MSA-SW41C-070918 (240-98276-19) and MSA-SW41D-070918 (240-98276-20).

The initial calibration (ICAL) did not pass the method calibration acceptance criteria for Hexachlorobutadiene. This variance only affects results measured above the reporting limit. A CCV standard at or below the reporting limit (RL) was analyzed with the samples and found to be acceptable. This demonstrates the reporting limit is valid for the affected analytes. The samples associated with the ICAL were non-detects for the affected analytes; therefore, the results have been reported. The following samples are impacted: MSA-SW42A-070918 (240-98276-21), MSA-SW42B-070918 (240-98276-22), MSA-SW42C-070918 (240-98276-23), MSA-SW42D-070918 (240-98276-24), MSA-SW43A-070918 (240-98276-25), MSA-SW43B-070918 (240-98276-26), MSA-SW43C-070918 (240-98276-27), MSA-SW43D-070918 (240-98276-28), MSA-SW44A-070918 (240-98276-29), MSA-SW44B-070918 (240-98276-30), MSA-SW44C-070918 (240-98276-31), MSA-SW44D-070918 (240-98276-32), MSA-SW45A-070918 (240-98276-33), MSA-SW45B-070918 (240-98276-34), MSA-SW45C-070918 (240-98276-35), MSA-SW45D-070918 (240-98276-36), EL-SW01A-070918 (240-98276-37), EL-SW01B-070918 (240-98276-38) and EL-SW01C-070918 (240-98276-39).

The initial calibration (ICAL) did not pass the method calibration acceptance criteria for Hexachlorobutadiene. This variance only affects results measured above the reporting limit. A CCV standard at or below the reporting limit (RL) was analyzed with the samples and found to be acceptable. This demonstrates the reporting limit is valid for the affected analytes. The samples associated with the ICAL were non-detects for the affected analytes; therefore, the results have been reported. The following samples are impacted: EL-SW01D-070918 (240-98276-40), TB-070918 (240-98276-41), MSA-SW46A-070918 (240-98276-42), MSA-SW47A-070918 (240-98276-43), MSA-SW48A-070918 (240-98276-44) and MSA-SW49A-070918 (240-98276-45).



No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **DISSOLVED METALS (ICPMS)**

Samples MSA-SW37A-070918 (240-98276-1), MSA-SW37B-070918 (240-98276-2), MSA-SW37C-070918 (240-98276-3), MSA-SW37D-070918 (240-98276-4), MSA-SW38A-070918 (240-98276-5), MSA-SW38B-070918 (240-98276-6), MSA-SW38C-070918 (240-98276-7), MSA-SW38D-070918 (240-98276-8), MSA-SW39A-070918 (240-98276-9), MSA-SW39B-070918 (240-98276-10), MSA-SW39C-070918 (240-98276-11), MSA-SW39D-070918 (240-98276-12), MSA-SW40A-070918 (240-98276-13), MSA-SW40B-070918 (240-98276-14), MSA-SW40C-070918 (240-98276-15), MSA-SW40D-070918 (240-98276-16), MSA-SW41A-070918 (240-98276-17), MSA-SW41B-070918 (240-98276-18), MSA-SW41C-070918 (240-98276-19), MSA-SW41D-070918 (240-98276-20), MSA-SW42A-070918 (240-98276-21), MSA-SW42B-070918 (240-98276-22), MSA-SW42C-070918 (240-98276-23), MSA-SW42D-070918 (240-98276-24), MSA-SW43A-070918 (240-98276-25), MSA-SW43B-070918 (240-98276-26), MSA-SW43C-070918 (240-98276-27), MSA-SW43D-070918 (240-98276-28), MSA-SW44A-070918 (240-98276-29), MSA-SW44B-070918 (240-98276-30), MSA-SW44C-070918 (240-98276-31), MSA-SW44D-070918 (240-98276-32), MSA-SW45A-070918 (240-98276-33), MSA-SW45B-070918 (240-98276-34), MSA-SW45C-070918 (240-98276-35) and MSA-SW45D-070918 (240-98276-36) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 07/11/2018 and analyzed on 07/18/2018 and 07/19/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **DISSOLVED MERCURY (CVAA)**

Samples MSA-SW37A-070918 (240-98276-1), MSA-SW37B-070918 (240-98276-2), MSA-SW37C-070918 (240-98276-3), MSA-SW37D-070918 (240-98276-4), MSA-SW38A-070918 (240-98276-5), MSA-SW38B-070918 (240-98276-6), MSA-SW38C-070918 (240-98276-7), MSA-SW38D-070918 (240-98276-8), MSA-SW39A-070918 (240-98276-9), MSA-SW39B-070918 (240-98276-10), MSA-SW39C-070918 (240-98276-11), MSA-SW39D-070918 (240-98276-12), MSA-SW40A-070918 (240-98276-13), MSA-SW40B-070918 (240-98276-14), MSA-SW40C-070918 (240-98276-15), MSA-SW40D-070918 (240-98276-16), MSA-SW41A-070918 (240-98276-17), MSA-SW41B-070918 (240-98276-18), MSA-SW41C-070918 (240-98276-19), MSA-SW41D-070918 (240-98276-20), MSA-SW42A-070918 (240-98276-21), MSA-SW42B-070918 (240-98276-22), MSA-SW42C-070918 (240-98276-23), MSA-SW42D-070918 (240-98276-24), MSA-SW43A-070918 (240-98276-25), MSA-SW43B-070918 (240-98276-26), MSA-SW43C-070918 (240-98276-27), MSA-SW43D-070918 (240-98276-28), MSA-SW44A-070918 (240-98276-29), MSA-SW44B-070918 (240-98276-30), MSA-SW44C-070918 (240-98276-31), MSA-SW44D-070918 (240-98276-32), MSA-SW45A-070918 (240-98276-33), MSA-SW45B-070918 (240-98276-34), MSA-SW45C-070918 (240-98276-35) and MSA-SW45D-070918 (240-98276-36) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 07/11/2018 and analyzed on 07/12/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **DISSOLVED HARDNESS (AS CaCO<sub>3</sub>) BY CALCULATION**

Samples MSA-SW37A-070918 (240-98276-1), MSA-SW37B-070918 (240-98276-2), MSA-SW37C-070918 (240-98276-3), MSA-SW37D-070918 (240-98276-4), MSA-SW38A-070918 (240-98276-5), MSA-SW38B-070918 (240-98276-6), MSA-SW38C-070918 (240-98276-7), MSA-SW38D-070918 (240-98276-8), MSA-SW39A-070918 (240-98276-9), MSA-SW39B-070918 (240-98276-10), MSA-SW39C-070918 (240-98276-11), MSA-SW39D-070918 (240-98276-12), MSA-SW40A-070918 (240-98276-13), MSA-SW40B-070918 (240-98276-14), MSA-SW40C-070918 (240-98276-15), MSA-SW40D-070918 (240-98276-16), MSA-SW41A-070918 (240-98276-17), MSA-SW41B-070918 (240-98276-18), MSA-SW41C-070918 (240-98276-19), MSA-SW41D-070918 (240-98276-20), MSA-SW42A-070918 (240-98276-21), MSA-SW42B-070918 (240-98276-22), MSA-SW42C-070918 (240-98276-23), MSA-SW42D-070918 (240-98276-24), MSA-SW43A-070918 (240-98276-25), MSA-SW43B-070918 (240-98276-26), MSA-SW43C-070918 (240-98276-27), MSA-SW43D-070918 (240-98276-28), MSA-SW44A-070918 (240-98276-29), MSA-SW44B-070918 (240-98276-30), MSA-SW44C-070918 (240-98276-31), MSA-SW44D-070918 (240-98276-32), MSA-SW45A-070918 (240-98276-33), MSA-SW45B-070918 (240-98276-34), MSA-SW45C-070918 (240-98276-35) and MSA-SW45D-070918 (240-98276-36) were analyzed for dissolved hardness (as CaCO<sub>3</sub>) by calculation in accordance with SM 2340B. The samples were analyzed on 07/23/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Definitions/Glossary

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

TestAmerica Job ID: 240-98276-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| *         | LCS or LCSD is outside acceptance limits.                                                                      |

### GC/MS VOA TICs

| Qualifier | Qualifier Description                                                     |
|-----------|---------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                  |
| J         | Indicates an Estimated Value for TICs                                     |
| T         | Result is a tentatively identified compound (TIC) and an estimated value. |

### Metals

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                                                                  |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.                                            |
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| F1        | MS and/or MSD Recovery is outside acceptance limits.                                                                                                      |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| PQL            | Practical Quantitation Limit                                                                                |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |

# Sample Summary

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

TestAmerica Job ID: 240-98276-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-98276-1   | MSA-SW37A-070918 | Water  | 07/09/18 13:00 | 07/10/18 09:25 |
| 240-98276-2   | MSA-SW37B-070918 | Water  | 07/09/18 13:05 | 07/10/18 09:25 |
| 240-98276-3   | MSA-SW37C-070918 | Water  | 07/09/18 13:09 | 07/10/18 09:25 |
| 240-98276-4   | MSA-SW37D-070918 | Water  | 07/09/18 13:15 | 07/10/18 09:25 |
| 240-98276-5   | MSA-SW38A-070918 | Water  | 07/09/18 11:47 | 07/10/18 09:25 |
| 240-98276-6   | MSA-SW38B-070918 | Water  | 07/09/18 11:51 | 07/10/18 09:25 |
| 240-98276-7   | MSA-SW38C-070918 | Water  | 07/09/18 11:56 | 07/10/18 09:25 |
| 240-98276-8   | MSA-SW38D-070918 | Water  | 07/09/18 12:03 | 07/10/18 09:25 |
| 240-98276-9   | MSA-SW39A-070918 | Water  | 07/09/18 09:38 | 07/10/18 09:25 |
| 240-98276-10  | MSA-SW39B-070918 | Water  | 07/09/18 09:44 | 07/10/18 09:25 |
| 240-98276-11  | MSA-SW39C-070918 | Water  | 07/09/18 09:50 | 07/10/18 09:25 |
| 240-98276-12  | MSA-SW39D-070918 | Water  | 07/09/18 09:56 | 07/10/18 09:25 |
| 240-98276-13  | MSA-SW40A-070918 | Water  | 07/09/18 12:15 | 07/10/18 09:25 |
| 240-98276-14  | MSA-SW40B-070918 | Water  | 07/09/18 12:18 | 07/10/18 09:25 |
| 240-98276-15  | MSA-SW40C-070918 | Water  | 07/09/18 12:23 | 07/10/18 09:25 |
| 240-98276-16  | MSA-SW40D-070918 | Water  | 07/09/18 12:28 | 07/10/18 09:25 |
| 240-98276-17  | MSA-SW41A-070918 | Water  | 07/09/18 11:21 | 07/10/18 09:25 |
| 240-98276-18  | MSA-SW41B-070918 | Water  | 07/09/18 11:27 | 07/10/18 09:25 |
| 240-98276-19  | MSA-SW41C-070918 | Water  | 07/09/18 11:32 | 07/10/18 09:25 |
| 240-98276-20  | MSA-SW41D-070918 | Water  | 07/09/18 11:38 | 07/10/18 09:25 |
| 240-98276-21  | MSA-SW42A-070918 | Water  | 07/09/18 12:38 | 07/10/18 09:25 |
| 240-98276-22  | MSA-SW42B-070918 | Water  | 07/09/18 12:44 | 07/10/18 09:25 |
| 240-98276-23  | MSA-SW42C-070918 | Water  | 07/09/18 12:48 | 07/10/18 09:25 |
| 240-98276-24  | MSA-SW42D-070918 | Water  | 07/09/18 12:53 | 07/10/18 09:25 |
| 240-98276-25  | MSA-SW43A-070918 | Water  | 07/09/18 10:50 | 07/10/18 09:25 |
| 240-98276-26  | MSA-SW43B-070918 | Water  | 07/09/18 10:58 | 07/10/18 09:25 |
| 240-98276-27  | MSA-SW43C-070918 | Water  | 07/09/18 11:05 | 07/10/18 09:25 |
| 240-98276-28  | MSA-SW43D-070918 | Water  | 07/09/18 11:11 | 07/10/18 09:25 |
| 240-98276-29  | MSA-SW44A-070918 | Water  | 07/09/18 10:27 | 07/10/18 09:25 |
| 240-98276-30  | MSA-SW44B-070918 | Water  | 07/09/18 10:32 | 07/10/18 09:25 |
| 240-98276-31  | MSA-SW44C-070918 | Water  | 07/09/18 10:36 | 07/10/18 09:25 |
| 240-98276-32  | MSA-SW44D-070918 | Water  | 07/09/18 10:42 | 07/10/18 09:25 |
| 240-98276-33  | MSA-SW45A-070918 | Water  | 07/09/18 10:03 | 07/10/18 09:25 |
| 240-98276-34  | MSA-SW45B-070918 | Water  | 07/09/18 10:08 | 07/10/18 09:25 |
| 240-98276-35  | MSA-SW45C-070918 | Water  | 07/09/18 10:14 | 07/10/18 09:25 |
| 240-98276-36  | MSA-SW45D-070918 | Water  | 07/09/18 10:18 | 07/10/18 09:25 |
| 240-98276-37  | EL-SW01A-070918  | Water  | 07/09/18 09:18 | 07/10/18 09:25 |
| 240-98276-38  | EL-SW01B-070918  | Water  | 07/09/18 09:22 | 07/10/18 09:25 |
| 240-98276-39  | EL-SW01C-070918  | Water  | 07/09/18 09:25 | 07/10/18 09:25 |
| 240-98276-40  | EL-SW01D-070918  | Water  | 07/09/18 09:28 | 07/10/18 09:25 |
| 240-98276-41  | TB-070918        | Water  | 07/09/18 00:00 | 07/10/18 09:25 |
| 240-98276-42  | MSA-SW46A-070918 | Water  | 07/09/18 12:34 | 07/10/18 09:25 |
| 240-98276-43  | MSA-SW47A-070918 | Water  | 07/09/18 12:11 | 07/10/18 09:25 |
| 240-98276-44  | MSA-SW48A-070918 | Water  | 07/09/18 11:43 | 07/10/18 09:25 |
| 240-98276-45  | MSA-SW49A-070918 | Water  | 07/09/18 11:17 | 07/10/18 09:25 |

TestAmerica Canton

## Method Summary

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

TestAmerica Job ID: 240-98276-1

| Method   | Method Description                                    | Protocol | Laboratory |
|----------|-------------------------------------------------------|----------|------------|
| 8260C    | Volatile Organic Compounds by GC/MS                   | SW846    | TAL CAN    |
| 6020     | Metals (ICP/MS)                                       | SW846    | TAL CAN    |
| 7470A    | Mercury (CVAA)                                        | SW846    | TAL CAN    |
| SM 2340B | Total Hardness (as CaCO <sub>3</sub> ) by calculation | SM       | TAL CAN    |
| 3005A    | Preparation, Total Recoverable or Dissolved Metals    | SW846    | TAL CAN    |
| 5030C    | Purge and Trap                                        | SW846    | TAL CAN    |
| 7470A    | Preparation, Mercury                                  | SW846    | TAL CAN    |

### Protocol References:

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

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

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Matrix: Water

Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|------------------|---------------|--------|-------|-------|-------|
| MSA-SW37A-070918 | 240-98276-1   | 102    | 108   | 107   | 107   |
| MSA-SW37B-070918 | 240-98276-2   | 100    | 104   | 105   | 107   |
| MSA-SW37C-070918 | 240-98276-3   | 100    | 101   | 103   | 105   |
| MSA-SW37D-070918 | 240-98276-4   | 100    | 100   | 106   | 109   |
| MSA-SW38A-070918 | 240-98276-5   | 95     | 96    | 102   | 105   |
| MSA-SW38B-070918 | 240-98276-6   | 94     | 93    | 89    | 86    |
| MSA-SW38C-070918 | 240-98276-7   | 90     | 89    | 88    | 84    |
| MSA-SW38D-070918 | 240-98276-8   | 92     | 90    | 88    | 86    |
| MSA-SW39A-070918 | 240-98276-9   | 92     | 92    | 90    | 87    |
| MSA-SW39B-070918 | 240-98276-10  | 92     | 90    | 88    | 84    |
| MSA-SW39C-070918 | 240-98276-11  | 93     | 91    | 89    | 84    |
| MSA-SW39D-070918 | 240-98276-12  | 98     | 94    | 90    | 89    |
| MSA-SW40A-070918 | 240-98276-13  | 101    | 97    | 92    | 89    |
| MSA-SW40B-070918 | 240-98276-14  | 92     | 90    | 87    | 84    |
| MSA-SW40C-070918 | 240-98276-15  | 94     | 89    | 89    | 91    |
| MSA-SW40D-070918 | 240-98276-16  | 94     | 91    | 88    | 85    |
| MSA-SW41A-070918 | 240-98276-17  | 103    | 101   | 96    | 93    |
| MSA-SW41B-070918 | 240-98276-18  | 93     | 92    | 89    | 85    |
| MSA-SW41C-070918 | 240-98276-19  | 93     | 92    | 89    | 87    |
| MSA-SW41D-070918 | 240-98276-20  | 92     | 91    | 88    | 86    |
| MSA-SW42A-070918 | 240-98276-21  | 93     | 89    | 89    | 86    |
| MSA-SW42B-070918 | 240-98276-22  | 92     | 91    | 89    | 87    |
| MSA-SW42C-070918 | 240-98276-23  | 92     | 91    | 88    | 85    |
| MSA-SW42D-070918 | 240-98276-24  | 93     | 92    | 90    | 86    |
| MSA-SW43A-070918 | 240-98276-25  | 92     | 91    | 87    | 84    |
| MSA-SW43B-070918 | 240-98276-26  | 91     | 89    | 86    | 83    |
| MSA-SW43C-070918 | 240-98276-27  | 91     | 91    | 87    | 84    |
| MSA-SW43D-070918 | 240-98276-28  | 93     | 90    | 88    | 86    |
| MSA-SW44A-070918 | 240-98276-29  | 93     | 90    | 87    | 85    |
| MSA-SW44B-070918 | 240-98276-30  | 92     | 89    | 88    | 84    |
| MSA-SW44C-070918 | 240-98276-31  | 93     | 91    | 88    | 86    |
| MSA-SW44D-070918 | 240-98276-32  | 94     | 91    | 87    | 86    |
| MSA-SW45A-070918 | 240-98276-33  | 91     | 90    | 87    | 84    |
| MSA-SW45B-070918 | 240-98276-34  | 91     | 92    | 88    | 83    |
| MSA-SW45C-070918 | 240-98276-35  | 94     | 90    | 88    | 86    |

QC LIMITS

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

69-124  
61-138  
73-120  
69-120

# Column to be used to flag recovery values

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low  
 GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID    | DBFM # | DCA # | TOL # | BFB # |
|------------------|------------------|--------|-------|-------|-------|
| MSA-SW45D-070918 | 240-98276-36     | 94     | 94    | 91    | 89    |
| EL-SW01A-070918  | 240-98276-37     | 93     | 91    | 88    | 86    |
| EL-SW01B-070918  | 240-98276-38     | 93     | 89    | 87    | 86    |
| EL-SW01C-070918  | 240-98276-39     | 95     | 93    | 89    | 88    |
| EL-SW01D-070918  | 240-98276-40     | 98     | 94    | 90    | 89    |
| TB-070918        | 240-98276-41     | 97     | 93    | 90    | 86    |
| MSA-SW46A-070918 | 240-98276-42     | 95     | 92    | 88    | 86    |
| MSA-SW47A-070918 | 240-98276-43     | 96     | 93    | 87    | 85    |
| MSA-SW48A-070918 | 240-98276-44     | 96     | 92    | 87    | 86    |
| MSA-SW49A-070918 | 240-98276-45     | 96     | 93    | 88    | 86    |
|                  | MB 240-336272/9  | 101    | 106   | 104   | 106   |
|                  | MB 240-336777/9  | 92     | 90    | 89    | 86    |
|                  | MB 240-336990/9  | 99     | 93    | 90    | 87    |
|                  | MB 240-337214/9  | 92     | 90    | 88    | 87    |
|                  | MB 240-337453/9  | 95     | 92    | 89    | 88    |
|                  | LCS 240-336272/6 | 99     | 100   | 99    | 101   |
|                  | LCS 240-336777/5 | 92     | 90    | 89    | 87    |
|                  | LCS 240-336990/5 | 93     | 90    | 90    | 86    |
|                  | LCS 240-337214/5 | 95     | 90    | 90    | 88    |
|                  | LCS 240-337453/5 | 99     | 93    | 94    | 93    |

|                                    |                  |
|------------------------------------|------------------|
|                                    | <u>QC LIMITS</u> |
| DBFM = Dibromofluoromethane (Surr) | 69-124           |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 61-138           |
| TOL = Toluene-d8 (Surr)            | 73-120           |
| BFB = 4-Bromofluorobenzene (Surr)  | 69-120           |

# Column to be used to flag recovery values

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 240-335057/11 Date Analyzed: 07/06/2018 19:47  
 Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): UXM12454.D Heated Purge: (Y/N) N  
 Calibration ID: 45857

|                               | FB               |         | CBNZd5  |        | DCBd4  |              |
|-------------------------------|------------------|---------|---------|--------|--------|--------------|
|                               | AREA #           | RT #    | AREA #  | RT #   | AREA # | RT #         |
| INITIAL CALIBRATION MID-POINT | 1152543          | 5.81    | 934783  | 8.50   | 458867 | 10.74        |
| UPPER LIMIT                   | 2305086          | 6.31    | 1869566 | 9.00   | 917734 | 11.24        |
| LOWER LIMIT                   | 576272           | 5.31    | 467392  | 8.00   | 229434 | 10.24        |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID |         |         |        |        |              |
| ICV 240-335057/15             |                  | 1003046 | 5.81    | 812159 | 8.50   | 405679 10.74 |
| ICV 240-335057/24             |                  | 1124203 | 5.81    | 914711 | 8.50   | 449289 10.74 |
| CCVIS 240-336777/4            |                  | 998606  | 5.81    | 869395 | 8.50   | 428877 10.74 |
| CCVIS 240-336990/4            |                  | 1103431 | 5.81    | 954965 | 8.50   | 482623 10.74 |
| CCVIS 240-337214/4            |                  | 1052629 | 5.81    | 926368 | 8.50   | 469812 10.74 |
| CCVIS 240-337453/4            |                  | 1041211 | 5.81    | 865653 | 8.50   | 457480 10.74 |

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

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

RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 240-336777/4 Date Analyzed: 07/18/2018 09:14  
 Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): UXM12723.D Heated Purge: (Y/N) N  
 Calibration ID: 45861

|                  | FB               |         | CBNZd5  |        | DCBd4  |              |
|------------------|------------------|---------|---------|--------|--------|--------------|
|                  | AREA #           | RT #    | AREA #  | RT #   | AREA # | RT #         |
| 12/24 HOUR STD   | 998606           | 5.81    | 869395  | 8.50   | 428877 | 10.74        |
| UPPER LIMIT      | 1997212          | 6.31    | 1738790 | 9.00   | 857754 | 11.24        |
| LOWER LIMIT      | 499303           | 5.31    | 434698  | 8.00   | 214439 | 10.24        |
| LAB SAMPLE ID    | CLIENT SAMPLE ID |         |         |        |        |              |
| LCS 240-336777/5 |                  | 1093116 | 5.81    | 949676 | 8.50   | 474133 10.74 |
| CCV 240-336777/6 |                  | 1103322 | 5.81    | 942988 | 8.50   | 480857 10.74 |
| MB 240-336777/9  |                  | 1068229 | 5.81    | 924707 | 8.50   | 466674 10.74 |
| 240-98276-6      | MSA-SW38B-070918 | 1058446 | 5.81    | 914564 | 8.50   | 464505 10.74 |
| 240-98276-7      | MSA-SW38C-070918 | 1079256 | 5.81    | 945389 | 8.50   | 470260 10.74 |
| 240-98276-8      | MSA-SW38D-070918 | 1061001 | 5.81    | 924110 | 8.50   | 463639 10.74 |
| 240-98276-9      | MSA-SW39A-070918 | 1053354 | 5.81    | 916166 | 8.50   | 452349 10.74 |

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 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.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 240-336990/4 Date Analyzed: 07/19/2018 09:43  
 Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): UXM12753.D Heated Purge: (Y/N) N  
 Calibration ID: 45861

|                  | FB               |         | CBNZd5  |        | DCBd4  |              |
|------------------|------------------|---------|---------|--------|--------|--------------|
|                  | AREA #           | RT #    | AREA #  | RT #   | AREA # | RT #         |
| 12/24 HOUR STD   | 1103431          | 5.81    | 954965  | 8.50   | 482623 | 10.74        |
| UPPER LIMIT      | 2206862          | 6.31    | 1909930 | 9.00   | 965246 | 11.24        |
| LOWER LIMIT      | 551716           | 5.31    | 477483  | 8.00   | 241312 | 10.24        |
| LAB SAMPLE ID    | CLIENT SAMPLE ID |         |         |        |        |              |
| LCS 240-336990/5 |                  | 1119406 | 5.81    | 965932 | 8.50   | 484206 10.74 |
| CCV 240-336990/6 |                  | 1079253 | 5.81    | 937749 | 8.50   | 452391 10.74 |
| MB 240-336990/9  |                  | 981299  | 5.81    | 779529 | 8.50   | 431002 10.74 |
| 240-98276-10     | MSA-SW39B-070918 | 1071964 | 5.81    | 935553 | 8.50   | 460832 10.74 |
| 240-98276-11     | MSA-SW39C-070918 | 1052441 | 5.81    | 921654 | 8.50   | 449412 10.74 |
| 240-98276-12     | MSA-SW39D-070918 | 991157  | 5.81    | 814833 | 8.50   | 438051 10.74 |
| 240-98276-13     | MSA-SW40A-070918 | 982193  | 5.81    | 826290 | 8.50   | 414340 10.74 |
| 240-98276-14     | MSA-SW40B-070918 | 1079055 | 5.81    | 953195 | 8.50   | 471182 10.74 |
| 240-98276-15     | MSA-SW40C-070918 | 1061189 | 5.81    | 921692 | 8.50   | 488908 10.74 |
| 240-98276-16     | MSA-SW40D-070918 | 1060133 | 5.81    | 923682 | 8.50   | 471105 10.74 |
| 240-98276-17     | MSA-SW41A-070918 | 955832  | 5.81    | 844960 | 8.50   | 424983 10.74 |
| 240-98276-18     | MSA-SW41B-070918 | 1053937 | 5.81    | 932395 | 8.50   | 469850 10.74 |
| 240-98276-19     | MSA-SW41C-070918 | 1058111 | 5.81    | 930388 | 8.50   | 481841 10.74 |
| 240-98276-20     | MSA-SW41D-070918 | 1051317 | 5.81    | 928300 | 8.50   | 467662 10.74 |

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 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.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 240-337214/4 Date Analyzed: 07/20/2018 11:07  
 Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): UXM12784.D Heated Purge: (Y/N) N  
 Calibration ID: 45861

|                  |                  | FB      |      | CBNZd5  |      | DCBd4  |       |
|------------------|------------------|---------|------|---------|------|--------|-------|
|                  |                  | AREA #  | RT # | AREA #  | RT # | AREA # | RT #  |
| 12/24 HOUR STD   |                  | 1052629 | 5.81 | 926368  | 8.50 | 469812 | 10.74 |
| UPPER LIMIT      |                  | 2105258 | 6.31 | 1852736 | 9.00 | 939624 | 11.24 |
| LOWER LIMIT      |                  | 526315  | 5.31 | 463184  | 8.00 | 234906 | 10.24 |
| LAB SAMPLE ID    | CLIENT SAMPLE ID |         |      |         |      |        |       |
| LCS 240-337214/5 |                  | 1082122 | 5.81 | 927989  | 8.50 | 459664 | 10.74 |
| CCV 240-337214/6 |                  | 1083666 | 5.81 | 960678  | 8.50 | 482085 | 10.74 |
| MB 240-337214/9  |                  | 1064898 | 5.81 | 935254  | 8.50 | 486537 | 10.74 |
| 240-98276-21     | MSA-SW42A-070918 | 1063651 | 5.81 | 935401  | 8.50 | 475854 | 10.74 |
| 240-98276-22     | MSA-SW42B-070918 | 1054311 | 5.81 | 926547  | 8.50 | 478096 | 10.74 |
| 240-98276-23     | MSA-SW42C-070918 | 1064033 | 5.81 | 937874  | 8.50 | 465924 | 10.74 |
| 240-98276-24     | MSA-SW42D-070918 | 1050669 | 5.81 | 921522  | 8.50 | 459536 | 10.74 |
| 240-98276-25     | MSA-SW43A-070918 | 1067350 | 5.81 | 950465  | 8.50 | 483933 | 10.74 |
| 240-98276-26     | MSA-SW43B-070918 | 1070344 | 5.81 | 962197  | 8.50 | 483555 | 10.74 |
| 240-98276-27     | MSA-SW43C-070918 | 1063137 | 5.81 | 944768  | 8.50 | 474314 | 10.74 |
| 240-98276-28     | MSA-SW43D-070918 | 1059383 | 5.81 | 935309  | 8.50 | 488250 | 10.74 |
| 240-98276-29     | MSA-SW44A-070918 | 1058927 | 5.81 | 945338  | 8.50 | 476957 | 10.74 |
| 240-98276-30     | MSA-SW44B-070918 | 1048301 | 5.81 | 934336  | 8.50 | 477465 | 10.74 |
| 240-98276-31     | MSA-SW44C-070918 | 1055896 | 5.81 | 943645  | 8.50 | 486334 | 10.74 |
| 240-98276-32     | MSA-SW44D-070918 | 1036767 | 5.81 | 923356  | 8.50 | 484098 | 10.74 |
| 240-98276-33     | MSA-SW45A-070918 | 1068562 | 5.81 | 953134  | 8.50 | 479066 | 10.74 |
| 240-98276-34     | MSA-SW45B-070918 | 1057283 | 5.81 | 940629  | 8.50 | 468228 | 10.74 |
| 240-98276-35     | MSA-SW45C-070918 | 1045383 | 5.81 | 927587  | 8.50 | 470382 | 10.74 |
| 240-98276-36     | MSA-SW45D-070918 | 1007494 | 5.81 | 897887  | 8.50 | 442189 | 10.74 |
| 240-98276-37     | EL-SW01A-070918  | 1045866 | 5.81 | 934203  | 8.50 | 483530 | 10.74 |
| 240-98276-38     | EL-SW01B-070918  | 1038759 | 5.81 | 925127  | 8.50 | 476116 | 10.74 |
| 240-98276-39     | EL-SW01C-070918  | 1032196 | 5.81 | 921851  | 8.50 | 460570 | 10.74 |

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 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.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 240-337453/4 Date Analyzed: 07/23/2018 09:29  
 Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): UXM12817.D Heated Purge: (Y/N) N  
 Calibration ID: 45861

|                  | FB               |         | CBNZd5  |        | DCBd4  |              |
|------------------|------------------|---------|---------|--------|--------|--------------|
|                  | AREA #           | RT #    | AREA #  | RT #   | AREA # | RT #         |
| 12/24 HOUR STD   | 1041211          | 5.81    | 865653  | 8.50   | 457480 | 10.74        |
| UPPER LIMIT      | 2082422          | 6.31    | 1731306 | 9.00   | 914960 | 11.24        |
| LOWER LIMIT      | 520606           | 5.31    | 432827  | 8.00   | 228740 | 10.24        |
| LAB SAMPLE ID    | CLIENT SAMPLE ID |         |         |        |        |              |
| LCS 240-337453/5 |                  | 1025753 | 5.81    | 910067 | 8.50   | 457011 10.74 |
| CCV 240-337453/6 |                  | 1047645 | 5.81    | 942382 | 8.50   | 474064 10.74 |
| MB 240-337453/9  |                  | 1039380 | 5.81    | 937264 | 8.50   | 487084 10.74 |
| 240-98276-40     | EL-SW01D-070918  | 1004124 | 5.81    | 915321 | 8.50   | 462128 10.74 |
| 240-98276-41     | TB-070918        | 1025201 | 5.81    | 925405 | 8.50   | 474538 10.74 |
| 240-98276-42     | MSA-SW46A-070918 | 1027480 | 5.81    | 948536 | 8.50   | 485884 10.74 |
| 240-98276-43     | MSA-SW47A-070918 | 1015562 | 5.81    | 934787 | 8.50   | 468551 10.74 |
| 240-98276-44     | MSA-SW48A-070918 | 1023735 | 5.81    | 944307 | 8.50   | 486865 10.74 |
| 240-98276-45     | MSA-SW49A-070918 | 994596  | 5.81    | 918877 | 8.50   | 476307 10.74 |

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 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.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 240-336107/11 Date Analyzed: 07/13/2018 13:32  
 Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): U1900607.d Heated Purge: (Y/N) N  
 Calibration ID: 45930

|                               | FB               |        | CBNZd5  |        | DCBd4  |        |       |
|-------------------------------|------------------|--------|---------|--------|--------|--------|-------|
|                               | AREA #           | RT #   | AREA #  | RT #   | AREA # | RT #   |       |
| INITIAL CALIBRATION MID-POINT | 934396           | 5.65   | 678576  | 8.50   | 431825 | 10.88  |       |
| UPPER LIMIT                   | 1868792          | 6.15   | 1357152 | 9.00   | 863650 | 11.38  |       |
| LOWER LIMIT                   | 467198           | 5.15   | 339288  | 8.00   | 215913 | 10.38  |       |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID |        |         |        |        |        |       |
| ICV 240-336107/15             |                  | 962750 | 5.65    | 696088 | 8.50   | 449155 | 10.88 |
| ICV 240-336107/24             |                  | 948611 | 5.65    | 690206 | 8.50   | 446532 | 10.88 |
| CCVIS 240-336272/5            |                  | 957719 | 5.65    | 728358 | 8.50   | 447252 | 10.88 |

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 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.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 240-336272/5 Date Analyzed: 07/15/2018 11:56  
 Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): U1900627.d Heated Purge: (Y/N) N  
 Calibration ID: 45934

|                  |                  | FB      |      | CBNZd5  |      | DCBd4  |       |
|------------------|------------------|---------|------|---------|------|--------|-------|
|                  |                  | AREA #  | RT # | AREA #  | RT # | AREA # | RT #  |
| 12/24 HOUR STD   |                  | 957719  | 5.65 | 728358  | 8.50 | 447252 | 10.88 |
| UPPER LIMIT      |                  | 1915438 | 6.15 | 1456716 | 9.00 | 894504 | 11.38 |
| LOWER LIMIT      |                  | 478860  | 5.15 | 364179  | 8.00 | 223626 | 10.38 |
| LAB SAMPLE ID    | CLIENT SAMPLE ID |         |      |         |      |        |       |
| LCS 240-336272/6 |                  | 979893  | 5.65 | 755068  | 8.50 | 447359 | 10.88 |
| MB 240-336272/9  |                  | 1002378 | 5.65 | 767896  | 8.50 | 458648 | 10.88 |
| 240-98276-1      | MSA-SW37A-070918 | 997059  | 5.65 | 763070  | 8.50 | 441013 | 10.88 |
| 240-98276-2      | MSA-SW37B-070918 | 1024384 | 5.65 | 796453  | 8.50 | 464068 | 10.88 |
| 240-98276-3      | MSA-SW37C-070918 | 1018102 | 5.65 | 798309  | 8.50 | 454180 | 10.88 |
| 240-98276-4      | MSA-SW37D-070918 | 1020780 | 5.65 | 797556  | 8.50 | 444190 | 10.88 |
| 240-98276-5      | MSA-SW38A-070918 | 1052274 | 5.65 | 821649  | 8.50 | 460101 | 10.88 |

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 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 IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Lab File ID: U1900631.d Lab Sample ID: MB 240-336272/9  
Matrix: Water Heated Purge: (Y/N) N  
Instrument ID: A3UX19 Date Analyzed: 07/15/2018 13:25  
GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID    | LAB<br>FILE ID | DATE ANALYZED    |
|------------------|------------------|----------------|------------------|
|                  | LCS 240-336272/6 | U1900628.d     | 07/15/2018 12:18 |
| MSA-SW37A-070918 | 240-98276-1      | U1900642.d     | 07/15/2018 17:30 |
| MSA-SW37B-070918 | 240-98276-2      | U1900643.d     | 07/15/2018 17:52 |
| MSA-SW37C-070918 | 240-98276-3      | U1900644.d     | 07/15/2018 18:14 |
| MSA-SW37D-070918 | 240-98276-4      | U1900645.d     | 07/15/2018 18:36 |
| MSA-SW38A-070918 | 240-98276-5      | U1900646.d     | 07/15/2018 18:58 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336272/9

Matrix: Water Lab File ID: U1900631.d

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 13:25

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

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

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 336272 Units: ug/L

| CAS NO.  | COMPOUND NAME                         | RESULT | Q | RL  | MDL   |
|----------|---------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                    | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                    | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                   | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane           | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                    | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                   | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                   | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                   | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether             | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                       | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                            | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                          | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                    | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                       | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                               | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                               | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                             | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                          | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                      | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                  | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                         | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                          | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336272/9

Matrix: Water Lab File ID: U1900631.d

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 13:25

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

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

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 336272 Units: ug/L

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336272/9  
 Matrix: Water Lab File ID: U1900631.d  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 13:25  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 336272 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 106  |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 106  |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 104  |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336272/9  
Matrix: Water Lab File ID: U1900631.d  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 13:25  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 336272 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336272/9  
Matrix: Water Lab File ID: U1900631.d  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 07/15/2018 13:25  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 336272 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: U1900628.d  
 Lab ID: LCS 240-336272/6 Client ID: \_\_\_\_\_

| COMPOUND                                    | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,1,1,2-Tetrachloroethane                   | 20.0                     | 19.7                           | 98              | 73-136              |   |
| 1,1,1-Trichloroethane                       | 20.0                     | 20.4                           | 102             | 64-147              |   |
| 1,1,2,2-Tetrachloroethane                   | 20.0                     | 20.9                           | 104             | 58-122              |   |
| 1,1,2-Trichloro-1,2,2-trichflu<br>oroethane | 20.0                     | 21.1                           | 105             | 65-144              |   |
| 1,1-Dichloroethane                          | 20.0                     | 19.8                           | 99              | 74-120              |   |
| 1,1-Dichloroethene                          | 20.0                     | 20.5                           | 103             | 65-127              |   |
| 1,1-Dichloropropene                         | 20.0                     | 19.5                           | 98              | 80-122              |   |
| 1,2,3-Trichlorobenzene                      | 20.0                     | 20.4                           | 102             | 31-144              |   |
| 1,2,3-Trichloropropane                      | 20.0                     | 21.0                           | 105             | 53-134              |   |
| 1,2,4-Trichlorobenzene                      | 20.0                     | 19.9                           | 100             | 34-141              |   |
| 1,2,4-Trimethylbenzene                      | 20.0                     | 20.4                           | 102             | 80-120              |   |
| 1,2-Dibromo-3-Chloropropane                 | 20.0                     | 20.2                           | 101             | 50-130              |   |
| 1,2-Dichlorobenzene                         | 20.0                     | 20.3                           | 101             | 80-120              |   |
| 1,2-Dichloroethane                          | 20.0                     | 19.7                           | 99              | 68-133              |   |
| 1,2-Dichloropropane                         | 20.0                     | 21.5                           | 108             | 78-127              |   |
| 1,3-Dichlorobenzene                         | 20.0                     | 20.3                           | 101             | 80-120              |   |
| 1,3-Dichloropropane                         | 20.0                     | 20.5                           | 103             | 71-124              |   |
| 1,4-Dichlorobenzene                         | 20.0                     | 20.0                           | 100             | 80-120              |   |
| 2,2-Dichloropropane                         | 20.0                     | 21.1                           | 106             | 32-178              |   |
| 2-Chloroethyl vinyl ether                   | 20.0                     | 22.6                           | 113             | 58-123              |   |
| 2-Chlorotoluene                             | 20.0                     | 20.3                           | 102             | 80-120              |   |
| 2-Hexanone                                  | 40.0                     | 42.8                           | 107             | 28-169              |   |
| Bromobenzene                                | 20.0                     | 21.1                           | 106             | 73-120              |   |
| Bromochloromethane                          | 20.0                     | 19.3                           | 96              | 78-120              |   |
| 4-Chlorotoluene                             | 20.0                     | 21.1                           | 105             | 79-120              |   |
| p-Isopropyltoluene                          | 20.0                     | 21.1                           | 105             | 78-125              |   |
| Acetone                                     | 40.0                     | 37.1                           | 93              | 35-131              |   |
| Benzene                                     | 20.0                     | 19.8                           | 99              | 79-120              |   |
| Bromoform                                   | 20.0                     | 20.5                           | 103             | 55-145              |   |
| Bromomethane                                | 20.0                     | 19.1                           | 95              | 17-158              |   |
| Carbon disulfide                            | 20.0                     | 20.3                           | 102             | 49-141              |   |
| Carbon tetrachloride                        | 20.0                     | 20.2                           | 101             | 55-171              |   |
| Chlorobenzene                               | 20.0                     | 20.2                           | 101             | 80-120              |   |
| Chloroethane                                | 20.0                     | 19.9                           | 100             | 10-149              |   |
| Chloroform                                  | 20.0                     | 19.5                           | 98              | 80-120              |   |
| Chloromethane                               | 20.0                     | 18.7                           | 94              | 59-124              |   |
| cis-1,2-Dichloroethene                      | 20.0                     | 19.7                           | 98              | 77-120              |   |
| cis-1,3-Dichloropropene                     | 20.0                     | 21.6                           | 108             | 75-120              |   |
| Hexachlorobutadiene                         | 20.0                     | 20.2                           | 101             | 36-146              |   |
| Dibromomethane                              | 20.0                     | 19.8                           | 99              | 80-120              |   |
| Bromodichloromethane                        | 20.0                     | 20.3                           | 101             | 79-125              |   |

# 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.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: U1900628.d  
 Lab ID: LCS 240-336272/6 Client ID: \_\_\_\_\_

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Dichlorodifluoromethane   | 20.0                     | 16.1                           | 81              | 42-141              |   |
| Ethylbenzene              | 20.0                     | 19.6                           | 98              | 80-120              |   |
| 1,2-Dibromoethane         | 20.0                     | 20.1                           | 100             | 80-120              |   |
| Naphthalene               | 20.0                     | 20.5                           | 102             | 31-127              |   |
| m-Xylene & p-Xylene       | 20.0                     | 20.3                           | 101             | 80-120              |   |
| n-Butylbenzene            | 20.0                     | 20.5                           | 102             | 60-137              |   |
| Isopropylbenzene          | 20.0                     | 20.1                           | 100             | 80-128              |   |
| n-Propylbenzene           | 20.0                     | 20.7                           | 104             | 76-120              |   |
| 2-Butanone                | 40.0                     | 41.6                           | 104             | 43-149              |   |
| 4-Methyl-2-pentanone      | 40.0                     | 42.7                           | 107             | 53-144              |   |
| sec-Butylbenzene          | 20.0                     | 20.5                           | 102             | 76-124              |   |
| Methyl tert-butyl ether   | 20.0                     | 19.9                           | 99              | 73-120              |   |
| Methylene Chloride        | 20.0                     | 18.8                           | 94              | 64-140              |   |
| o-Xylene                  | 20.0                     | 20.0                           | 100             | 80-120              |   |
| Styrene                   | 20.0                     | 20.0                           | 100             | 80-121              |   |
| tert-Butylbenzene         | 20.0                     | 20.8                           | 104             | 79-120              |   |
| Tetrachloroethene         | 20.0                     | 19.7                           | 99              | 80-122              |   |
| Toluene                   | 20.0                     | 19.8                           | 99              | 78-120              |   |
| trans-1,2-Dichloroethene  | 20.0                     | 20.3                           | 102             | 74-124              |   |
| trans-1,3-Dichloropropene | 20.0                     | 20.3                           | 101             | 67-120              |   |
| Trichloroethene           | 20.0                     | 19.8                           | 99              | 76-124              |   |
| Trichlorofluoromethane    | 20.0                     | 19.0                           | 95              | 27-176              |   |
| Vinyl acetate             | 20.0                     | 23.7                           | 118             | 42-141              |   |
| Vinyl chloride            | 20.0                     | 19.2                           | 96              | 65-124              |   |
| tert-Butyl alcohol        | 200                      | 201                            | 101             | 52-136              |   |
| Xylenes, Total            | 40.0                     | 40.3                           | 101             | 80-120              |   |
| Dibromochloromethane      | 20.0                     | 20.3                           | 102             | 64-129              |   |

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Lab File ID: UXM12728.D Lab Sample ID: MB 240-336777/9  
Matrix: Water Heated Purge: (Y/N) N  
Instrument ID: A3UX16 Date Analyzed: 07/18/2018 11:17  
GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID    | LAB<br>FILE ID | DATE ANALYZED    |
|------------------|------------------|----------------|------------------|
|                  | LCS 240-336777/5 | UXM12724.D     | 07/18/2018 09:38 |
| MSA-SW38B-070918 | 240-98276-6      | UXM12747.D     | 07/18/2018 19:08 |
| MSA-SW38C-070918 | 240-98276-7      | UXM12748.D     | 07/18/2018 19:32 |
| MSA-SW38D-070918 | 240-98276-8      | UXM12749.D     | 07/18/2018 19:56 |
| MSA-SW39A-070918 | 240-98276-9      | UXM12750.D     | 07/18/2018 20:20 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336777/9

Matrix: Water Lab File ID: UXM12728.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 11:17

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

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

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 336777 Units: ug/L

| CAS NO.  | COMPOUND NAME                           | RESULT | Q | RL  | MDL   |
|----------|-----------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                   | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane               | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                      | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                      | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                     | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                  | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                  | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                  | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                  | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane             | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                      | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                     | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                     | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                     | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether               | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                         | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                              | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                            | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                      | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                         | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                      | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                                 | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                                 | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                               | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                            | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                        | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                    | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                           | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                            | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336777/9

Matrix: Water Lab File ID: UXM12728.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 11:17

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

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

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 336777 Units: ug/L

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336777/9  
 Matrix: Water Lab File ID: UXM12728.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 11:17  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 336777 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 86   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 89   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 92   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336777/9  
Matrix: Water Lab File ID: UXM12728.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 11:17  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 336777 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336777/9  
Matrix: Water Lab File ID: UXM12728.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2018 11:17  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 336777 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: UXM12724.D  
 Lab ID: LCS 240-336777/5 Client ID: \_\_\_\_\_

| COMPOUND                                    | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,1,1,2-Tetrachloroethane                   | 20.0                     | 19.1                           | 96              | 73-136              |   |
| 1,1,1-Trichloroethane                       | 20.0                     | 21.0                           | 105             | 64-147              |   |
| 1,1,2,2-Tetrachloroethane                   | 20.0                     | 20.6                           | 103             | 58-122              |   |
| 1,1,2-Trichloro-1,2,2-trichflu<br>oroethane | 20.0                     | 20.4                           | 102             | 65-144              |   |
| 1,1-Dichloroethane                          | 20.0                     | 21.3                           | 107             | 74-120              |   |
| 1,1-Dichloroethene                          | 20.0                     | 23.1                           | 116             | 65-127              |   |
| 1,1-Dichloropropene                         | 20.0                     | 21.1                           | 105             | 80-122              |   |
| 1,2,3-Trichlorobenzene                      | 20.0                     | 17.0                           | 85              | 31-144              |   |
| 1,2,3-Trichloropropane                      | 20.0                     | 20.5                           | 103             | 53-134              |   |
| 1,2,4-Trichlorobenzene                      | 20.0                     | 17.4                           | 87              | 34-141              |   |
| 1,2,4-Trimethylbenzene                      | 20.0                     | 17.9                           | 90              | 80-120              |   |
| 1,2-Dibromo-3-Chloropropane                 | 20.0                     | 19.0                           | 95              | 50-130              |   |
| 1,2-Dichlorobenzene                         | 20.0                     | 18.6                           | 93              | 80-120              |   |
| 1,2-Dichloroethane                          | 20.0                     | 20.6                           | 103             | 68-133              |   |
| 1,2-Dichloropropane                         | 20.0                     | 22.4                           | 112             | 78-127              |   |
| 1,3-Dichlorobenzene                         | 20.0                     | 18.1                           | 91              | 80-120              |   |
| 1,3-Dichloropropane                         | 20.0                     | 20.0                           | 100             | 71-124              |   |
| 1,4-Dichlorobenzene                         | 20.0                     | 18.1                           | 91              | 80-120              |   |
| 2,2-Dichloropropane                         | 20.0                     | 20.4                           | 102             | 32-178              |   |
| 2-Chloroethyl vinyl ether                   | 20.0                     | 21.3                           | 107             | 58-123              |   |
| 2-Chlorotoluene                             | 20.0                     | 18.5                           | 92              | 80-120              |   |
| 2-Hexanone                                  | 40.0                     | 44.3                           | 111             | 28-169              |   |
| Bromobenzene                                | 20.0                     | 18.7                           | 94              | 73-120              |   |
| Bromochloromethane                          | 20.0                     | 21.5                           | 107             | 78-120              |   |
| 4-Chlorotoluene                             | 20.0                     | 18.8                           | 94              | 79-120              |   |
| p-Isopropyltoluene                          | 20.0                     | 17.4                           | 87              | 78-125              |   |
| Acetone                                     | 40.0                     | 46.6                           | 117             | 35-131              |   |
| Benzene                                     | 20.0                     | 21.9                           | 109             | 79-120              |   |
| Bromoform                                   | 20.0                     | 18.4                           | 92              | 55-145              |   |
| Bromomethane                                | 20.0                     | 22.3                           | 112             | 17-158              |   |
| Carbon disulfide                            | 20.0                     | 19.0                           | 95              | 49-141              |   |
| Carbon tetrachloride                        | 20.0                     | 20.1                           | 100             | 55-171              |   |
| Chlorobenzene                               | 20.0                     | 19.3                           | 96              | 80-120              |   |
| Chloroethane                                | 20.0                     | 21.8                           | 109             | 10-149              |   |
| Chloroform                                  | 20.0                     | 21.3                           | 106             | 80-120              |   |
| Chloromethane                               | 20.0                     | 21.2                           | 106             | 59-124              |   |
| cis-1,2-Dichloroethene                      | 20.0                     | 21.7                           | 109             | 77-120              |   |
| cis-1,3-Dichloropropene                     | 20.0                     | 22.2                           | 111             | 75-120              |   |
| Hexachlorobutadiene                         | 20.0                     | 11.4                           | 57              | 36-146              |   |
| Dibromomethane                              | 20.0                     | 20.8                           | 104             | 80-120              |   |
| Bromodichloromethane                        | 20.0                     | 20.9                           | 104             | 79-125              |   |

# 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.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: UXM12724.D  
 Lab ID: LCS 240-336777/5 Client ID: \_\_\_\_\_

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Dichlorodifluoromethane   | 20.0                     | 15.2                           | 76              | 42-141              |   |
| Ethylbenzene              | 20.0                     | 19.6                           | 98              | 80-120              |   |
| 1,2-Dibromoethane         | 20.0                     | 19.9                           | 99              | 80-120              |   |
| Naphthalene               | 20.0                     | 16.7                           | 84              | 31-127              |   |
| m-Xylene & p-Xylene       | 20.0                     | 19.5                           | 98              | 80-120              |   |
| n-Butylbenzene            | 20.0                     | 15.8                           | 79              | 60-137              |   |
| Isopropylbenzene          | 20.0                     | 19.0                           | 95              | 80-128              |   |
| n-Propylbenzene           | 20.0                     | 18.6                           | 93              | 76-120              |   |
| 2-Butanone                | 40.0                     | 45.8                           | 115             | 43-149              |   |
| 4-Methyl-2-pentanone      | 40.0                     | 46.2                           | 116             | 53-144              |   |
| sec-Butylbenzene          | 20.0                     | 17.2                           | 86              | 76-124              |   |
| Methyl tert-butyl ether   | 20.0                     | 21.1                           | 106             | 73-120              |   |
| Methylene Chloride        | 20.0                     | 20.9                           | 105             | 64-140              |   |
| o-Xylene                  | 20.0                     | 19.8                           | 99              | 80-120              |   |
| Styrene                   | 20.0                     | 19.6                           | 98              | 80-121              |   |
| tert-Butylbenzene         | 20.0                     | 17.8                           | 89              | 79-120              |   |
| Tetrachloroethene         | 20.0                     | 18.7                           | 93              | 80-122              |   |
| Toluene                   | 20.0                     | 19.7                           | 99              | 78-120              |   |
| trans-1,2-Dichloroethene  | 20.0                     | 22.5                           | 113             | 74-124              |   |
| trans-1,3-Dichloropropene | 20.0                     | 19.4                           | 97              | 67-120              |   |
| Trichloroethene           | 20.0                     | 20.5                           | 102             | 76-124              |   |
| Trichlorofluoromethane    | 20.0                     | 19.8                           | 99              | 27-176              |   |
| Vinyl acetate             | 20.0                     | 26.5                           | 133             | 42-141              |   |
| Vinyl chloride            | 20.0                     | 22.3                           | 112             | 65-124              |   |
| tert-Butyl alcohol        | 200                      | 254                            | 127             | 52-136              |   |
| Xylenes, Total            | 40.0                     | 39.3                           | 98              | 80-120              |   |
| Dibromochloromethane      | 20.0                     | 19.6                           | 98              | 64-129              |   |

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: UXM12758.D Lab Sample ID: MB 240-336990/9  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: A3UX16 Date Analyzed: 07/19/2018 12:02  
 GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID    | LAB<br>FILE ID | DATE ANALYZED    |
|------------------|------------------|----------------|------------------|
|                  | LCS 240-336990/5 | UXM12754.D     | 07/19/2018 10:27 |
| MSA-SW39B-070918 | 240-98276-10     | UXM12767.D     | 07/19/2018 15:57 |
| MSA-SW39C-070918 | 240-98276-11     | UXM12768.D     | 07/19/2018 16:21 |
| MSA-SW39D-070918 | 240-98276-12     | UXM12769.D     | 07/19/2018 16:45 |
| MSA-SW40A-070918 | 240-98276-13     | UXM12770.D     | 07/19/2018 17:10 |
| MSA-SW40B-070918 | 240-98276-14     | UXM12771.D     | 07/19/2018 17:34 |
| MSA-SW40C-070918 | 240-98276-15     | UXM12772.D     | 07/19/2018 18:19 |
| MSA-SW40D-070918 | 240-98276-16     | UXM12773.D     | 07/19/2018 18:43 |
| MSA-SW41A-070918 | 240-98276-17     | UXM12774.D     | 07/19/2018 19:07 |
| MSA-SW41B-070918 | 240-98276-18     | UXM12775.D     | 07/19/2018 19:31 |
| MSA-SW41C-070918 | 240-98276-19     | UXM12776.D     | 07/19/2018 19:54 |
| MSA-SW41D-070918 | 240-98276-20     | UXM12777.D     | 07/19/2018 20:18 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336990/9

Matrix: Water Lab File ID: UXM12758.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 12:02

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

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

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME                         | RESULT | Q | RL  | MDL   |
|----------|---------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                    | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                    | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                   | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane           | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                    | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                   | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                   | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                   | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether             | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                       | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                            | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                          | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                    | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                       | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                               | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                               | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                             | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                          | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                      | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                  | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                         | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                          | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336990/9

Matrix: Water Lab File ID: UXM12758.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 12:02

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

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

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 336990 Units: ug/L

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336990/9  
 Matrix: Water Lab File ID: UXM12758.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 12:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 336990 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 87   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 90   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336990/9  
 Matrix: Water Lab File ID: UXM12758.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 12:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 336990 Units: ug/L  
 Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-336990/9  
Matrix: Water Lab File ID: UXM12758.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 07/19/2018 12:02  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 336990 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: UXM12754.D  
 Lab ID: LCS 240-336990/5 Client ID: \_\_\_\_\_

| COMPOUND                                    | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,1,1,2-Tetrachloroethane                   | 20.0                     | 18.4                           | 92              | 73-136              |   |
| 1,1,1-Trichloroethane                       | 20.0                     | 20.3                           | 102             | 64-147              |   |
| 1,1,2,2-Tetrachloroethane                   | 20.0                     | 19.4                           | 97              | 58-122              |   |
| 1,1,2-Trichloro-1,2,2-trichflu<br>oroethane | 20.0                     | 20.9                           | 104             | 65-144              |   |
| 1,1-Dichloroethane                          | 20.0                     | 20.7                           | 104             | 74-120              |   |
| 1,1-Dichloroethene                          | 20.0                     | 23.3                           | 116             | 65-127              |   |
| 1,1-Dichloropropene                         | 20.0                     | 20.3                           | 102             | 80-122              |   |
| 1,2,3-Trichlorobenzene                      | 20.0                     | 16.8                           | 84              | 31-144              |   |
| 1,2,3-Trichloropropane                      | 20.0                     | 18.8                           | 94              | 53-134              |   |
| 1,2,4-Trichlorobenzene                      | 20.0                     | 16.7                           | 84              | 34-141              |   |
| 1,2,4-Trimethylbenzene                      | 20.0                     | 17.4                           | 87              | 80-120              |   |
| 1,2-Dibromo-3-Chloropropane                 | 20.0                     | 17.5                           | 87              | 50-130              |   |
| 1,2-Dichlorobenzene                         | 20.0                     | 17.8                           | 89              | 80-120              |   |
| 1,2-Dichloroethane                          | 20.0                     | 19.4                           | 97              | 68-133              |   |
| 1,2-Dichloropropane                         | 20.0                     | 21.4                           | 107             | 78-127              |   |
| 1,3-Dichlorobenzene                         | 20.0                     | 17.3                           | 86              | 80-120              |   |
| 1,3-Dichloropropane                         | 20.0                     | 19.3                           | 96              | 71-124              |   |
| 1,4-Dichlorobenzene                         | 20.0                     | 17.8                           | 89              | 80-120              |   |
| 2,2-Dichloropropane                         | 20.0                     | 18.4                           | 92              | 32-178              |   |
| 2-Chloroethyl vinyl ether                   | 20.0                     | 21.2                           | 106             | 58-123              |   |
| 2-Chlorotoluene                             | 20.0                     | 17.8                           | 89              | 80-120              |   |
| 2-Hexanone                                  | 40.0                     | 39.2                           | 98              | 28-169              |   |
| Bromobenzene                                | 20.0                     | 18.0                           | 90              | 73-120              |   |
| Bromochloromethane                          | 20.0                     | 20.7                           | 104             | 78-120              |   |
| 4-Chlorotoluene                             | 20.0                     | 17.9                           | 90              | 79-120              |   |
| p-Isopropyltoluene                          | 20.0                     | 16.8                           | 84              | 78-125              |   |
| Acetone                                     | 40.0                     | 41.2                           | 103             | 35-131              |   |
| Benzene                                     | 20.0                     | 20.9                           | 104             | 79-120              |   |
| Bromoform                                   | 20.0                     | 17.9                           | 89              | 55-145              |   |
| Bromomethane                                | 20.0                     | 21.9                           | 110             | 17-158              |   |
| Carbon disulfide                            | 20.0                     | 20.9                           | 105             | 49-141              |   |
| Carbon tetrachloride                        | 20.0                     | 19.9                           | 100             | 55-171              |   |
| Chlorobenzene                               | 20.0                     | 18.8                           | 94              | 80-120              |   |
| Chloroethane                                | 20.0                     | 21.9                           | 110             | 10-149              |   |
| Chloroform                                  | 20.0                     | 20.1                           | 101             | 80-120              |   |
| Chloromethane                               | 20.0                     | 21.6                           | 108             | 59-124              |   |
| cis-1,2-Dichloroethene                      | 20.0                     | 21.1                           | 106             | 77-120              |   |
| cis-1,3-Dichloropropene                     | 20.0                     | 21.0                           | 105             | 75-120              |   |
| Hexachlorobutadiene                         | 20.0                     | 11.6                           | 58              | 36-146              |   |
| Dibromomethane                              | 20.0                     | 20.2                           | 101             | 80-120              |   |
| Bromodichloromethane                        | 20.0                     | 19.9                           | 100             | 79-125              |   |

# 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.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: UXM12754.D  
 Lab ID: LCS 240-336990/5 Client ID: \_\_\_\_\_

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Dichlorodifluoromethane   | 20.0                     | 16.0                           | 80              | 42-141              |   |
| Ethylbenzene              | 20.0                     | 19.1                           | 95              | 80-120              |   |
| 1,2-Dibromoethane         | 20.0                     | 19.1                           | 95              | 80-120              |   |
| Naphthalene               | 20.0                     | 15.8                           | 79              | 31-127              |   |
| m-Xylene & p-Xylene       | 20.0                     | 19.1                           | 95              | 80-120              |   |
| n-Butylbenzene            | 20.0                     | 15.6                           | 78              | 60-137              |   |
| Isopropylbenzene          | 20.0                     | 18.5                           | 93              | 80-128              |   |
| n-Propylbenzene           | 20.0                     | 18.2                           | 91              | 76-120              |   |
| 2-Butanone                | 40.0                     | 41.0                           | 102             | 43-149              |   |
| 4-Methyl-2-pentanone      | 40.0                     | 41.9                           | 105             | 53-144              |   |
| sec-Butylbenzene          | 20.0                     | 16.9                           | 84              | 76-124              |   |
| Methyl tert-butyl ether   | 20.0                     | 20.0                           | 100             | 73-120              |   |
| Methylene Chloride        | 20.0                     | 20.5                           | 103             | 64-140              |   |
| o-Xylene                  | 20.0                     | 18.8                           | 94              | 80-120              |   |
| Styrene                   | 20.0                     | 18.8                           | 94              | 80-121              |   |
| tert-Butylbenzene         | 20.0                     | 15.9                           | 79              | 79-120              |   |
| Tetrachloroethene         | 20.0                     | 18.2                           | 91              | 80-122              |   |
| Toluene                   | 20.0                     | 19.0                           | 95              | 78-120              |   |
| trans-1,2-Dichloroethene  | 20.0                     | 21.8                           | 109             | 74-124              |   |
| trans-1,3-Dichloropropene | 20.0                     | 18.5                           | 92              | 67-120              |   |
| Trichloroethene           | 20.0                     | 19.8                           | 99              | 76-124              |   |
| Trichlorofluoromethane    | 20.0                     | 20.4                           | 102             | 27-176              |   |
| Vinyl acetate             | 20.0                     | 25.9                           | 130             | 42-141              |   |
| Vinyl chloride            | 20.0                     | 23.1                           | 115             | 65-124              |   |
| tert-Butyl alcohol        | 200                      | 175                            | 88              | 52-136              |   |
| Xylenes, Total            | 40.0                     | 37.9                           | 95              | 80-120              |   |
| Dibromochloromethane      | 20.0                     | 19.1                           | 96              | 64-129              |   |

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: UXM12789.D Lab Sample ID: MB 240-337214/9  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: A3UX16 Date Analyzed: 07/20/2018 13:07  
 GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID    | LAB<br>FILE ID | DATE ANALYZED    |
|------------------|------------------|----------------|------------------|
|                  | LCS 240-337214/5 | UXM12785.D     | 07/20/2018 11:31 |
| MSA-SW42A-070918 | 240-98276-21     | UXM12794.D     | 07/20/2018 15:07 |
| MSA-SW42B-070918 | 240-98276-22     | UXM12795.D     | 07/20/2018 15:31 |
| MSA-SW42C-070918 | 240-98276-23     | UXM12796.D     | 07/20/2018 15:55 |
| MSA-SW42D-070918 | 240-98276-24     | UXM12797.D     | 07/20/2018 16:19 |
| MSA-SW43A-070918 | 240-98276-25     | UXM12798.D     | 07/20/2018 16:42 |
| MSA-SW43B-070918 | 240-98276-26     | UXM12799.D     | 07/20/2018 17:06 |
| MSA-SW43C-070918 | 240-98276-27     | UXM12800.D     | 07/20/2018 17:30 |
| MSA-SW43D-070918 | 240-98276-28     | UXM12801.D     | 07/20/2018 17:54 |
| MSA-SW44A-070918 | 240-98276-29     | UXM12802.D     | 07/20/2018 18:18 |
| MSA-SW44B-070918 | 240-98276-30     | UXM12803.D     | 07/20/2018 18:41 |
| MSA-SW44C-070918 | 240-98276-31     | UXM12804.D     | 07/20/2018 19:05 |
| MSA-SW44D-070918 | 240-98276-32     | UXM12805.D     | 07/20/2018 19:29 |
| MSA-SW45A-070918 | 240-98276-33     | UXM12806.D     | 07/20/2018 19:52 |
| MSA-SW45B-070918 | 240-98276-34     | UXM12807.D     | 07/20/2018 20:16 |
| MSA-SW45C-070918 | 240-98276-35     | UXM12808.D     | 07/20/2018 20:39 |
| MSA-SW45D-070918 | 240-98276-36     | UXM12809.D     | 07/20/2018 21:03 |
| EL-SW01A-070918  | 240-98276-37     | UXM12810.D     | 07/20/2018 21:27 |
| EL-SW01B-070918  | 240-98276-38     | UXM12811.D     | 07/20/2018 21:51 |
| EL-SW01C-070918  | 240-98276-39     | UXM12812.D     | 07/20/2018 22:15 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-337214/9

Matrix: Water Lab File ID: UXM12789.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 13:07

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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME                         | RESULT | Q | RL  | MDL   |
|----------|---------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                    | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                    | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                   | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane           | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                    | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                   | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                   | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                   | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether             | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                       | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                            | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                          | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                    | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                       | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                               | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                               | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                             | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                          | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                      | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                  | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                         | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                          | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-337214/9

Matrix: Water Lab File ID: UXM12789.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 13:07

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.: 337214 Units: ug/L

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-337214/9  
 Matrix: Water Lab File ID: UXM12789.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 13:07  
 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.: 337214 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 87   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 92   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-337214/9  
Matrix: Water Lab File ID: UXM12789.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 13:07  
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.: 337214 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-337214/9  
Matrix: Water Lab File ID: UXM12789.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 07/20/2018 13:07  
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.: 337214 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: UXM12785.D  
 Lab ID: LCS 240-337214/5 Client ID: \_\_\_\_\_

| COMPOUND                                    | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,1,1,2-Tetrachloroethane                   | 20.0                     | 19.0                           | 95              | 73-136              |   |
| 1,1,1-Trichloroethane                       | 20.0                     | 20.6                           | 103             | 64-147              |   |
| 1,1,2,2-Tetrachloroethane                   | 20.0                     | 20.1                           | 100             | 58-122              |   |
| 1,1,2-Trichloro-1,2,2-trichflu<br>oroethane | 20.0                     | 20.7                           | 104             | 65-144              |   |
| 1,1-Dichloroethane                          | 20.0                     | 21.9                           | 109             | 74-120              |   |
| 1,1-Dichloroethene                          | 20.0                     | 23.6                           | 118             | 65-127              |   |
| 1,1-Dichloropropene                         | 20.0                     | 21.1                           | 106             | 80-122              |   |
| 1,2,3-Trichlorobenzene                      | 20.0                     | 16.4                           | 82              | 31-144              |   |
| 1,2,3-Trichloropropane                      | 20.0                     | 19.5                           | 97              | 53-134              |   |
| 1,2,4-Trichlorobenzene                      | 20.0                     | 16.5                           | 83              | 34-141              |   |
| 1,2,4-Trimethylbenzene                      | 20.0                     | 17.9                           | 89              | 80-120              |   |
| 1,2-Dibromo-3-Chloropropane                 | 20.0                     | 17.3                           | 86              | 50-130              |   |
| 1,2-Dichlorobenzene                         | 20.0                     | 18.3                           | 92              | 80-120              |   |
| 1,2-Dichloroethane                          | 20.0                     | 20.2                           | 101             | 68-133              |   |
| 1,2-Dichloropropane                         | 20.0                     | 22.4                           | 112             | 78-127              |   |
| 1,3-Dichlorobenzene                         | 20.0                     | 18.0                           | 90              | 80-120              |   |
| 1,3-Dichloropropane                         | 20.0                     | 20.1                           | 100             | 71-124              |   |
| 1,4-Dichlorobenzene                         | 20.0                     | 18.4                           | 92              | 80-120              |   |
| 2,2-Dichloropropane                         | 20.0                     | 21.4                           | 107             | 32-178              |   |
| 2-Chloroethyl vinyl ether                   | 20.0                     | 21.8                           | 109             | 58-123              |   |
| 2-Chlorotoluene                             | 20.0                     | 18.8                           | 94              | 80-120              |   |
| 2-Hexanone                                  | 40.0                     | 39.8                           | 100             | 28-169              |   |
| Bromobenzene                                | 20.0                     | 18.8                           | 94              | 73-120              |   |
| Bromochloromethane                          | 20.0                     | 21.1                           | 105             | 78-120              |   |
| 4-Chlorotoluene                             | 20.0                     | 18.6                           | 93              | 79-120              |   |
| p-Isopropyltoluene                          | 20.0                     | 17.2                           | 86              | 78-125              |   |
| Acetone                                     | 40.0                     | 40.7                           | 102             | 35-131              |   |
| Benzene                                     | 20.0                     | 22.1                           | 111             | 79-120              |   |
| Bromoform                                   | 20.0                     | 18.2                           | 91              | 55-145              |   |
| Bromomethane                                | 20.0                     | 21.7                           | 108             | 17-158              |   |
| Carbon disulfide                            | 20.0                     | 22.2                           | 111             | 49-141              |   |
| Carbon tetrachloride                        | 20.0                     | 20.2                           | 101             | 55-171              |   |
| Chlorobenzene                               | 20.0                     | 19.1                           | 96              | 80-120              |   |
| Chloroethane                                | 20.0                     | 21.8                           | 109             | 10-149              |   |
| Chloroform                                  | 20.0                     | 21.3                           | 106             | 80-120              |   |
| Chloromethane                               | 20.0                     | 21.2                           | 106             | 59-124              |   |
| cis-1,2-Dichloroethene                      | 20.0                     | 22.0                           | 110             | 77-120              |   |
| cis-1,3-Dichloropropene                     | 20.0                     | 21.9                           | 109             | 75-120              |   |
| Hexachlorobutadiene                         | 20.0                     | 11.4                           | 57              | 36-146              |   |
| Dibromomethane                              | 20.0                     | 20.9                           | 105             | 80-120              |   |
| Bromodichloromethane                        | 20.0                     | 20.8                           | 104             | 79-125              |   |

# 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.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: UXM12785.D  
 Lab ID: LCS 240-337214/5 Client ID: \_\_\_\_\_

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Dichlorodifluoromethane   | 20.0                     | 15.4                           | 77              | 42-141              |   |
| Ethylbenzene              | 20.0                     | 19.4                           | 97              | 80-120              |   |
| 1,2-Dibromoethane         | 20.0                     | 19.5                           | 98              | 80-120              |   |
| Naphthalene               | 20.0                     | 15.7                           | 79              | 31-127              |   |
| m-Xylene & p-Xylene       | 20.0                     | 19.3                           | 97              | 80-120              |   |
| n-Butylbenzene            | 20.0                     | 15.8                           | 79              | 60-137              |   |
| Isopropylbenzene          | 20.0                     | 18.7                           | 93              | 80-128              |   |
| n-Propylbenzene           | 20.0                     | 18.7                           | 93              | 76-120              |   |
| 2-Butanone                | 40.0                     | 40.4                           | 101             | 43-149              |   |
| 4-Methyl-2-pentanone      | 40.0                     | 42.3                           | 106             | 53-144              |   |
| sec-Butylbenzene          | 20.0                     | 17.1                           | 85              | 76-124              |   |
| Methyl tert-butyl ether   | 20.0                     | 20.6                           | 103             | 73-120              |   |
| Methylene Chloride        | 20.0                     | 21.3                           | 107             | 64-140              |   |
| o-Xylene                  | 20.0                     | 19.5                           | 98              | 80-120              |   |
| Styrene                   | 20.0                     | 19.3                           | 96              | 80-121              |   |
| tert-Butylbenzene         | 20.0                     | 16.0                           | 80              | 79-120              |   |
| Tetrachloroethene         | 20.0                     | 18.7                           | 94              | 80-122              |   |
| Toluene                   | 20.0                     | 19.8                           | 99              | 78-120              |   |
| trans-1,2-Dichloroethene  | 20.0                     | 22.6                           | 113             | 74-124              |   |
| trans-1,3-Dichloropropene | 20.0                     | 19.0                           | 95              | 67-120              |   |
| Trichloroethene           | 20.0                     | 19.9                           | 99              | 76-124              |   |
| Trichlorofluoromethane    | 20.0                     | 20.5                           | 102             | 27-176              |   |
| Vinyl acetate             | 20.0                     | 25.8                           | 129             | 42-141              |   |
| Vinyl chloride            | 20.0                     | 22.6                           | 113             | 65-124              |   |
| tert-Butyl alcohol        | 200                      | 182                            | 91              | 52-136              |   |
| Xylenes, Total            | 40.0                     | 38.8                           | 97              | 80-120              |   |
| Dibromochloromethane      | 20.0                     | 19.6                           | 98              | 64-129              |   |

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Lab File ID: UXM12822.D Lab Sample ID: MB 240-337453/9  
Matrix: Water Heated Purge: (Y/N) N  
Instrument ID: A3UX16 Date Analyzed: 07/23/2018 11:39  
GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID    | LAB<br>FILE ID | DATE ANALYZED    |
|------------------|------------------|----------------|------------------|
|                  | LCS 240-337453/5 | UXM12818.D     | 07/23/2018 10:03 |
| EL-SW01D-070918  | 240-98276-40     | UXM12823.D     | 07/23/2018 12:15 |
| TB-070918        | 240-98276-41     | UXM12824.D     | 07/23/2018 12:39 |
| MSA-SW46A-070918 | 240-98276-42     | UXM12825.D     | 07/23/2018 13:03 |
| MSA-SW47A-070918 | 240-98276-43     | UXM12826.D     | 07/23/2018 13:27 |
| MSA-SW48A-070918 | 240-98276-44     | UXM12827.D     | 07/23/2018 13:51 |
| MSA-SW49A-070918 | 240-98276-45     | UXM12828.D     | 07/23/2018 14:15 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-337453/9

Matrix: Water Lab File ID: UXM12822.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 11:39

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.: 337453 Units: ug/L

| CAS NO.  | COMPOUND NAME                         | RESULT | Q | RL  | MDL   |
|----------|---------------------------------------|--------|---|-----|-------|
| 630-20-6 | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.14  |
| 71-55-6  | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.24  |
| 79-34-5  | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.13  |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41  |
| 75-34-3  | 1,1-Dichloroethane                    | 1.0    | U | 1.0 | 0.17  |
| 75-35-4  | 1,1-Dichloroethene                    | 1.0    | U | 1.0 | 0.19  |
| 563-58-6 | 1,1-Dichloropropene                   | 1.0    | U | 1.0 | 0.14  |
| 87-61-6  | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54  |
| 96-18-4  | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.24  |
| 526-73-8 | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.14  |
| 120-82-1 | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.26  |
| 95-63-6  | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.070 |
| 96-12-8  | 1,2-Dibromo-3-Chloropropane           | 5.0    | U | 5.0 | 0.91  |
| 95-50-1  | 1,2-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.15  |
| 107-06-2 | 1,2-Dichloroethane                    | 1.0    | U | 1.0 | 0.21  |
| 78-87-5  | 1,2-Dichloropropane                   | 1.0    | U | 1.0 | 0.15  |
| 541-73-1 | 1,3-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.15  |
| 142-28-9 | 1,3-Dichloropropane                   | 1.0    | U | 1.0 | 0.21  |
| 106-46-7 | 1,4-Dichlorobenzene                   | 1.0    | U | 1.0 | 0.16  |
| 594-20-7 | 2,2-Dichloropropane                   | 1.0    | U | 1.0 | 0.31  |
| 110-75-8 | 2-Chloroethyl vinyl ether             | 1.0    | U | 1.0 | 0.26  |
| 95-49-8  | 2-Chlorotoluene                       | 1.0    | U | 1.0 | 0.15  |
| 591-78-6 | 2-Hexanone                            | 5.0    | U | 5.0 | 0.54  |
| 108-86-1 | Bromobenzene                          | 1.0    | U | 1.0 | 0.12  |
| 74-97-5  | Bromochloromethane                    | 1.0    | U | 1.0 | 0.14  |
| 106-43-4 | 4-Chlorotoluene                       | 1.0    | U | 1.0 | 0.090 |
| 99-87-6  | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.13  |
| 67-64-1  | Acetone                               | 5.0    | U | 5.0 | 5.4   |
| 71-43-2  | Benzene                               | 1.0    | U | 1.0 | 0.13  |
| 75-25-2  | Bromoform                             | 1.0    | U | 1.0 | 0.76  |
| 74-83-9  | Bromomethane                          | 1.0    | U | 1.0 | 0.42  |
| 75-15-0  | Carbon disulfide                      | 1.0    | U | 1.0 | 0.28  |
| 56-23-5  | Carbon tetrachloride                  | 1.0    | U | 1.0 | 0.26  |
| 108-90-7 | Chlorobenzene                         | 1.0    | U | 1.0 | 0.14  |
| 75-00-3  | Chloroethane                          | 1.0    | U | 1.0 | 0.83  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-337453/9

Matrix: Water Lab File ID: UXM12822.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 11:39

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.: 337453 Units: ug/L

| CAS NO.     | COMPOUND NAME                 | RESULT | Q | RL   | MDL   |
|-------------|-------------------------------|--------|---|------|-------|
| 67-66-3     | Chloroform                    | 1.0    | U | 1.0  | 0.13  |
| 74-87-3     | Chloromethane                 | 1.0    | U | 1.0  | 0.20  |
| 156-59-2    | cis-1,2-Dichloroethene        | 1.0    | U | 1.0  | 0.16  |
| 10061-01-5  | cis-1,3-Dichloropropene       | 1.0    | U | 1.0  | 0.61  |
| 87-68-3     | Hexachlorobutadiene           | 1.0    | U | 1.0  | 0.83  |
| 74-95-3     | Dibromomethane                | 1.0    | U | 1.0  | 0.090 |
| 75-27-4     | Bromodichloromethane          | 1.0    | U | 1.0  | 0.17  |
| 75-71-8     | Dichlorodifluoromethane       | 1.0    | U | 1.0  | 0.35  |
| 100-41-4    | Ethylbenzene                  | 1.0    | U | 1.0  | 0.11  |
| 106-93-4    | 1,2-Dibromoethane             | 1.0    | U | 1.0  | 0.12  |
| 108-20-3    | Diisopropyl ether             | 5.0    | U | 5.0  | 0.17  |
| 91-20-3     | Naphthalene                   | 1.0    | U | 1.0  | 0.32  |
| 179601-23-1 | m-Xylene & p-Xylene           | 2.0    | U | 2.0  | 0.080 |
| 104-51-8    | n-Butylbenzene                | 1.0    | U | 1.0  | 0.14  |
| 98-82-8     | Isopropylbenzene              | 1.0    | U | 1.0  | 0.090 |
| 103-65-1    | n-Propylbenzene               | 1.0    | U | 1.0  | 0.15  |
| 78-93-3     | 2-Butanone                    | 5.0    | U | 5.0  | 1.2   |
| 108-10-1    | 4-Methyl-2-pentanone          | 5.0    | U | 5.0  | 0.42  |
| 135-98-8    | sec-Butylbenzene              | 1.0    | U | 1.0  | 0.13  |
| 1634-04-4   | Methyl tert-butyl ether       | 1.0    | U | 1.0  | 0.070 |
| 994-05-8    | Tert-amyl-methyl ether (TAME) | 5.0    | U | 5.0  | 0.11  |
| 75-09-2     | Methylene Chloride            | 5.0    | U | 5.0  | 2.6   |
| 95-47-6     | o-Xylene                      | 1.0    | U | 1.0  | 0.090 |
| 100-42-5    | Styrene                       | 1.0    | U | 1.0  | 0.10  |
| 637-92-3    | Ethyl-t-butyl ether (ETBE)    | 5.0    | U | 5.0  | 0.15  |
| 98-06-6     | tert-Butylbenzene             | 1.0    | U | 1.0  | 0.14  |
| 127-18-4    | Tetrachloroethene             | 1.0    | U | 1.0  | 0.15  |
| 108-88-3    | Toluene                       | 1.0    | U | 1.0  | 0.14  |
| 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  | 0.67  |
| 79-01-6     | Trichloroethene               | 1.0    | U | 1.0  | 0.10  |
| 75-69-4     | Trichlorofluoromethane        | 1.0    | U | 1.0  | 0.45  |
| 108-05-4    | Vinyl acetate                 | 2.0    | U | 2.0  | 0.19  |
| 75-01-4     | Vinyl chloride                | 0.50   | U | 0.50 | 0.20  |
| 75-65-0     | tert-Butyl alcohol            | 20     | U | 20   | 1.7   |
| 1330-20-7   | Xylenes, Total                | 2.0    | U | 2.0  | 0.15  |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-337453/9  
Matrix: Water Lab File ID: UXM12822.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 11:39  
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.: 337453 Units: ug/L

| CAS NO.  | COMPOUND NAME        | RESULT | Q | RL  | MDL  |
|----------|----------------------|--------|---|-----|------|
| 124-48-1 | Dibromochloromethane | 1.0    | U | 1.0 | 0.39 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92   |   | 61-138 |
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 88   |   | 69-120 |
| 2037-26-5  | Toluene-d8 (Surr)            | 89   |   | 73-120 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 95   |   | 69-124 |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-337453/9  
Matrix: Water Lab File ID: UXM12822.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 11:39  
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.: 337453 Units: ug/L  
Number TICs Found: 0 TIC Result Total: 0

| CAS NO. | COMPOUND NAME                   | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------------|----|--------|---|------------------|
|         | Tentatively Identified Compound |    | None   |   |                  |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-337453/9  
Matrix: Water Lab File ID: UXM12822.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 07/23/2018 11:39  
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.: 337453 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT | RESULT | Q | MATCH<br>QUALITY |
|---------|---------------------------|----|--------|---|------------------|
| 75-45-6 | Chlorodifluoromethane TIC |    | 1.0    | U |                  |

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: UXM12818.D  
 Lab ID: LCS 240-337453/5 Client ID: \_\_\_\_\_

| COMPOUND                                    | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,1,1,2-Tetrachloroethane                   | 20.0                     | 20.1                           | 100             | 73-136              |   |
| 1,1,1-Trichloroethane                       | 20.0                     | 22.2                           | 111             | 64-147              |   |
| 1,1,2,2-Tetrachloroethane                   | 20.0                     | 21.4                           | 107             | 58-122              |   |
| 1,1,2-Trichloro-1,2,2-trichflu<br>oroethane | 20.0                     | 22.8                           | 114             | 65-144              |   |
| 1,1-Dichloroethane                          | 20.0                     | 23.5                           | 118             | 74-120              |   |
| 1,1-Dichloroethene                          | 20.0                     | 25.0                           | 125             | 65-127              |   |
| 1,1-Dichloropropene                         | 20.0                     | 22.8                           | 114             | 80-122              |   |
| 1,2,3-Trichlorobenzene                      | 20.0                     | 18.0                           | 90              | 31-144              |   |
| 1,2,3-Trichloropropane                      | 20.0                     | 20.6                           | 103             | 53-134              |   |
| 1,2,4-Trichlorobenzene                      | 20.0                     | 18.4                           | 92              | 34-141              |   |
| 1,2,4-Trimethylbenzene                      | 20.0                     | 19.1                           | 95              | 80-120              |   |
| 1,2-Dibromo-3-Chloropropane                 | 20.0                     | 19.5                           | 97              | 50-130              |   |
| 1,2-Dichlorobenzene                         | 20.0                     | 19.3                           | 97              | 80-120              |   |
| 1,2-Dichloroethane                          | 20.0                     | 21.7                           | 108             | 68-133              |   |
| 1,2-Dichloropropane                         | 20.0                     | 24.7                           | 124             | 78-127              |   |
| 1,3-Dichlorobenzene                         | 20.0                     | 18.8                           | 94              | 80-120              |   |
| 1,3-Dichloropropane                         | 20.0                     | 21.4                           | 107             | 71-124              |   |
| 1,4-Dichlorobenzene                         | 20.0                     | 19.4                           | 97              | 80-120              |   |
| 2,2-Dichloropropane                         | 20.0                     | 22.7                           | 113             | 32-178              |   |
| 2-Chloroethyl vinyl ether                   | 20.0                     | 23.7                           | 119             | 58-123              |   |
| 2-Chlorotoluene                             | 20.0                     | 19.6                           | 98              | 80-120              |   |
| 2-Hexanone                                  | 40.0                     | 45.4                           | 113             | 28-169              |   |
| Bromobenzene                                | 20.0                     | 19.5                           | 98              | 73-120              |   |
| Bromochloromethane                          | 20.0                     | 22.8                           | 114             | 78-120              |   |
| 4-Chlorotoluene                             | 20.0                     | 19.5                           | 97              | 79-120              |   |
| p-Isopropyltoluene                          | 20.0                     | 18.5                           | 93              | 78-125              |   |
| Acetone                                     | 40.0                     | 47.7                           | 119             | 35-131              |   |
| Benzene                                     | 20.0                     | 23.9                           | 120             | 79-120              |   |
| Bromoform                                   | 20.0                     | 19.6                           | 98              | 55-145              |   |
| Bromomethane                                | 20.0                     | 23.2                           | 116             | 17-158              |   |
| Carbon disulfide                            | 20.0                     | 23.1                           | 115             | 49-141              |   |
| Carbon tetrachloride                        | 20.0                     | 21.6                           | 108             | 55-171              |   |
| Chlorobenzene                               | 20.0                     | 20.3                           | 101             | 80-120              |   |
| Chloroethane                                | 20.0                     | 23.1                           | 116             | 10-149              |   |
| Chloroform                                  | 20.0                     | 22.6                           | 113             | 80-120              |   |
| Chloromethane                               | 20.0                     | 22.1                           | 111             | 59-124              |   |
| cis-1,2-Dichloroethene                      | 20.0                     | 23.6                           | 118             | 77-120              |   |
| cis-1,3-Dichloropropene                     | 20.0                     | 24.5                           | 122             | 75-120              | * |
| Hexachlorobutadiene                         | 20.0                     | 12.6                           | 63              | 36-146              |   |
| Dibromomethane                              | 20.0                     | 22.3                           | 111             | 80-120              |   |
| Bromodichloromethane                        | 20.0                     | 22.5                           | 113             | 79-125              |   |

# 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.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: UXM12818.D  
 Lab ID: LCS 240-337453/5 Client ID: \_\_\_\_\_

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Dichlorodifluoromethane   | 20.0                     | 13.7                           | 68              | 42-141              |   |
| Ethylbenzene              | 20.0                     | 20.7                           | 103             | 80-120              |   |
| 1,2-Dibromoethane         | 20.0                     | 20.9                           | 104             | 80-120              |   |
| Naphthalene               | 20.0                     | 17.1                           | 85              | 31-127              |   |
| m-Xylene & p-Xylene       | 20.0                     | 20.7                           | 104             | 80-120              |   |
| n-Butylbenzene            | 20.0                     | 17.0                           | 85              | 60-137              |   |
| Isopropylbenzene          | 20.0                     | 20.0                           | 100             | 80-128              |   |
| n-Propylbenzene           | 20.0                     | 19.5                           | 97              | 76-120              |   |
| 2-Butanone                | 40.0                     | 48.2                           | 121             | 43-149              |   |
| 4-Methyl-2-pentanone      | 40.0                     | 49.8                           | 125             | 53-144              |   |
| sec-Butylbenzene          | 20.0                     | 18.1                           | 91              | 76-124              |   |
| Methyl tert-butyl ether   | 20.0                     | 22.6                           | 113             | 73-120              |   |
| Methylene Chloride        | 20.0                     | 22.7                           | 113             | 64-140              |   |
| o-Xylene                  | 20.0                     | 20.6                           | 103             | 80-120              |   |
| Styrene                   | 20.0                     | 20.7                           | 103             | 80-121              |   |
| tert-Butylbenzene         | 20.0                     | 18.9                           | 95              | 79-120              |   |
| Tetrachloroethene         | 20.0                     | 19.8                           | 99              | 80-122              |   |
| Toluene                   | 20.0                     | 20.9                           | 105             | 78-120              |   |
| trans-1,2-Dichloroethene  | 20.0                     | 24.0                           | 120             | 74-124              |   |
| trans-1,3-Dichloropropene | 20.0                     | 20.1                           | 101             | 67-120              |   |
| Trichloroethene           | 20.0                     | 22.0                           | 110             | 76-124              |   |
| Trichlorofluoromethane    | 20.0                     | 19.2                           | 96              | 27-176              |   |
| Vinyl acetate             | 20.0                     | 27.9                           | 139             | 42-141              |   |
| Vinyl chloride            | 20.0                     | 23.5                           | 117             | 65-124              |   |
| tert-Butyl alcohol        | 200                      | 253                            | 127             | 52-136              |   |
| Xylenes, Total            | 40.0                     | 41.3                           | 103             | 80-120              |   |
| Dibromochloromethane      | 20.0                     | 20.7                           | 103             | 64-129              |   |

# Column to be used to flag recovery and RPD values

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Lab File ID: BFB5679.D BFB Injection Date: 07/06/2018  
Instrument ID: A3UX16 BFB Injection Time: 17:27  
Analysis Batch No.: 335057

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 19.1                 |
| 75  | 30.0 - 60.0 % of mass 95           | 50.6                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.7                  |
| 173 | Less than 2.0 % of mass 174        | 0.0 (0.0) 1          |
| 174 | 50.0 - 120.00 % of mass 95         | 76.3                 |
| 175 | 5.0 - 9.0 % of mass 174            | 4.6 (6.0) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 73.1 (95.8) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 4.8 (6.6) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID         | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|-----------------------|-------------|---------------|---------------|
|                  | STD8260 240-335057/8  | UXM12451.D  | 07/06/2018    | 18:36         |
|                  | STD8260 240-335057/9  | UXM12452.D  | 07/06/2018    | 19:00         |
|                  | STD8260 240-335057/10 | UXM12453.D  | 07/06/2018    | 19:23         |
|                  | ICIS 240-335057/11    | UXM12454.D  | 07/06/2018    | 19:47         |
|                  | STD8260 240-335057/12 | UXM12455.D  | 07/06/2018    | 20:10         |
|                  | STD8260 240-335057/13 | UXM12456.D  | 07/06/2018    | 20:34         |
|                  | STD8260 240-335057/14 | UXM12457.D  | 07/06/2018    | 20:58         |
|                  | ICV 240-335057/15     | UXM12458.D  | 07/06/2018    | 21:52         |
|                  | STDA9 240-335057/18   | UXM12461.D  | 07/06/2018    | 23:04         |
|                  | STDA9 240-335057/19   | UXM12462.D  | 07/06/2018    | 23:27         |
|                  | STDA9 240-335057/20   | UXM12463.D  | 07/06/2018    | 23:51         |
|                  | STDA9 240-335057/21   | UXM12464.D  | 07/07/2018    | 00:15         |
|                  | STDA9 240-335057/22   | UXM12465.D  | 07/07/2018    | 00:39         |
|                  | STDA9 240-335057/23   | UXM12466.D  | 07/07/2018    | 01:02         |
|                  | ICV 240-335057/24     | UXM12467.D  | 07/07/2018    | 01:26         |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1 Analy Batch No.: 335057

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2018 18:36 Calibration End Date: 07/06/2018 20:58 Calibration ID: 45857

Calibration Files:

|         |                       |              |
|---------|-----------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:        | LAB FILE ID: |
| Level 1 | STD8260 240-335057/14 | UXM12457.D   |
| Level 2 | STD8260 240-335057/13 | UXM12456.D   |
| Level 3 | STD8260 240-335057/12 | UXM12455.D   |
| Level 4 | ICIS 240-335057/11    | UXM12454.D   |
| Level 5 | STD8260 240-335057/10 | UXM12453.D   |
| Level 6 | STD8260 240-335057/9  | UXM12452.D   |
| Level 7 | STD8260 240-335057/8  | UXM12451.D   |

| ANALYTE                                 | RRF              |                  |        |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|-----------------------------------------|------------------|------------------|--------|--------|--------|------------|-------------|--------|----|---|---------|------|---|----------|------------|---|----------------|
|                                         | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |   |          |            |   |                |
| Dichlorodifluoromethane                 | 0.2797<br>0.3392 | 0.4061<br>0.3654 | 0.3756 | 0.3179 | 0.3666 | Ave        |             | 0.3501 |    |   | 0.1000  | 11.9 |   | 20.0     |            |   |                |
| Chloromethane                           | 0.3187<br>0.3271 | 0.4104<br>0.3139 | 0.3578 | 0.3352 | 0.3279 | Ave        |             | 0.3416 |    |   | 0.1000  | 9.8  |   | 20.0     |            |   |                |
| Vinyl chloride                          | 0.2635<br>0.3356 | 0.3370<br>0.3439 | 0.3722 | 0.3266 | 0.3465 | Ave        |             | 0.3322 |    |   | 0.1000  | 10.1 |   | 20.0     |            |   |                |
| Butadiene                               | 0.2384<br>0.3014 | 0.3602<br>0.3279 | 0.3486 | 0.2837 | 0.3267 | Ave        |             | 0.3124 |    |   |         | 13.4 |   | 20.0     |            |   |                |
| Bromomethane                            | 0.1436<br>0.2234 | 0.2168<br>0.2273 | 0.2465 | 0.2197 | 0.2287 | Ave        |             | 0.2151 |    |   | 0.0500  | 15.3 |   | 20.0     |            |   |                |
| Chloroethane                            | 0.1980<br>0.2236 | 0.2481<br>0.2246 | 0.2427 | 0.2156 | 0.2249 | Ave        |             | 0.2254 |    |   | 0.0500  | 7.4  |   | 20.0     |            |   |                |
| Dichlorofluoromethane                   | 0.3785<br>0.4793 | 0.5405<br>0.4949 | 0.5329 | 0.4692 | 0.4894 | Ave        |             | 0.4835 |    |   |         | 11.0 |   | 20.0     |            |   |                |
| Trichlorofluoromethane                  | 0.3079<br>0.3754 | 0.4145<br>0.4015 | 0.4241 | 0.3568 | 0.3961 | Ave        |             | 0.3823 |    |   | 0.1000  | 10.4 |   | 20.0     |            |   |                |
| Ethyl ether                             | 0.2171<br>0.2408 | 0.2605<br>0.2398 | 0.2266 | 0.2378 | 0.2392 | Ave        |             | 0.2374 |    |   |         | 5.7  |   | 20.0     |            |   |                |
| Acrolein                                | 0.0541<br>0.0562 | 0.0567<br>0.0568 | 0.0575 | 0.0581 | 0.0585 | Ave        |             | 0.0568 |    |   |         | 2.5  |   | 20.0     |            |   |                |
| 1,1-Dichloroethene                      | 0.1628<br>0.2453 | 0.2592<br>0.2441 | 0.2308 | 0.2280 | 0.2356 | Ave        |             | 0.2294 |    |   | 0.1000  | 13.6 |   | 20.0     |            |   |                |
| Acetone                                 | +++++<br>0.0296  | 0.0409<br>0.0267 | 0.0303 | 0.0299 | 0.0302 | Ave        |             | 0.0313 |    |   | 0.0100  | 15.7 |   | 20.0     |            |   |                |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 0.1370<br>0.1667 | 0.1744<br>0.1615 | 0.1574 | 0.1531 | 0.1565 | Ave        |             | 0.1581 |    |   | 0.0500  | 7.4  |   | 20.0     |            |   |                |
| Iodomethane                             | 0.3170<br>0.3865 | 0.3839<br>0.3820 | 0.3690 | 0.3692 | 0.3784 | Ave        |             | 0.3694 |    |   |         | 6.5  |   | 20.0     |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1 Analy Batch No.: 335057  
SDG No.: \_\_\_\_\_  
Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 07/06/2018 18:36 Calibration End Date: 07/06/2018 20:58 Calibration ID: 45857

| ANALYTE                  | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|--------------------------|------------------|------------------|--------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                          | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| Carbon disulfide         | 0.5548<br>0.5608 | 0.6734<br>0.6823 | 0.6057 | 0.5035 | 0.6205 | Ave           |             | 0.6001 |    |   | 0.1000  | 10.9 |   | 20.0        |               |   |                   |
| 3-Chloro-1-propene       | 0.4399<br>0.4327 | 0.4666<br>0.4311 | 0.3923 | 0.4209 | 0.4297 | Ave           |             | 0.4305 |    |   |         | 5.1  |   | 20.0        |               |   |                   |
| Methyl acetate           | 0.2667<br>0.2478 | 0.2566<br>0.2493 | 0.2451 | 0.2423 | 0.2484 | Ave           |             | 0.2509 |    |   | 0.1000  | 3.3  |   | 20.0        |               |   |                   |
| Methylene Chloride       | ++++<br>0.2866   | 0.3791<br>0.2839 | 0.2782 | 0.2805 | 0.2835 | Ave           |             | 0.2986 |    |   | 0.1000  | 13.2 |   | 20.0        |               |   |                   |
| tert-Butyl alcohol       | 0.0275<br>0.0307 | 0.0282<br>0.0244 | 0.0341 | 0.0339 | 0.0335 | Ave           |             | 0.0303 |    |   |         | 12.4 |   | 20.0        |               |   |                   |
| Acrylonitrile            | 0.1249<br>0.1249 | 0.1219<br>0.1260 | 0.1202 | 0.1211 | 0.1257 | Ave           |             | 0.1235 |    |   |         | 1.9  |   | 20.0        |               |   |                   |
| trans-1,2-Dichloroethene | 0.2837<br>0.2932 | 0.2790<br>0.2972 | 0.2813 | 0.2837 | 0.2882 | Ave           |             | 0.2866 |    |   | 0.1000  | 2.3  |   | 20.0        |               |   |                   |
| Methyl tert-butyl ether  | 0.8932<br>0.9449 | 0.9372<br>0.9592 | 0.9086 | 0.9174 | 0.9377 | Ave           |             | 0.9283 |    |   | 0.1000  | 2.5  |   | 20.0        |               |   |                   |
| Hexane                   | ++++<br>0.2367   | 0.3685<br>0.2323 | 0.2249 | 0.2119 | 0.2207 | Lin1          | 0.1129      | 0.2265 |    |   |         | 8.8  |   |             | 0.9980        |   | 0.9900            |
| 1,1-Dichloroethane       | 0.4983<br>0.4973 | 0.5194<br>0.4959 | 0.4717 | 0.4783 | 0.4817 | Ave           |             | 0.4918 |    |   | 0.2000  | 3.3  |   | 20.0        |               |   |                   |
| Vinyl acetate            | 0.4488<br>0.5114 | 0.4942<br>0.5142 | 0.4729 | 0.4736 | 0.4994 | Ave           |             | 0.4878 |    |   |         | 4.9  |   | 20.0        |               |   |                   |
| cis-1,2-Dichloroethene   | 0.3015<br>0.3271 | 0.3159<br>0.3273 | 0.3118 | 0.3165 | 0.3194 | Ave           |             | 0.3171 |    |   | 0.1000  | 2.8  |   | 20.0        |               |   |                   |
| 2,2-Dichloropropane      | 0.0631<br>0.0736 | 0.0744<br>0.0796 | 0.0728 | 0.0722 | 0.0724 | Ave           |             | 0.0726 |    |   |         | 6.7  |   | 20.0        |               |   |                   |
| 2-Butanone               | 0.0502<br>0.0417 | 0.0406<br>0.0417 | 0.0418 | 0.0412 | 0.0431 | Ave           |             | 0.0429 |    |   | 0.0100  | 7.7  |   | 20.0        |               |   |                   |
| Bromochloromethane       | 0.1280<br>0.1438 | 0.1457<br>0.1438 | 0.1390 | 0.1416 | 0.1427 | Ave           |             | 0.1407 |    |   |         | 4.2  |   | 20.0        |               |   |                   |
| Tetrahydrofuran          | ++++<br>0.0928   | 0.1322<br>0.0928 | 0.0954 | 0.0926 | 0.0943 | Ave           |             | 0.1000 |    |   |         | 15.8 |   | 20.0        |               |   |                   |
| Chloroform               | 0.4775<br>0.4907 | 0.5034<br>0.4899 | 0.4749 | 0.4789 | 0.4844 | Ave           |             | 0.4857 |    |   | 0.2000  | 2.0  |   | 20.0        |               |   |                   |
| 1,1,1-Trichloroethane    | 0.3313<br>0.4116 | 0.3775<br>0.4109 | 0.3805 | 0.3911 | 0.3971 | Ave           |             | 0.3857 |    |   | 0.1000  | 7.1  |   | 20.0        |               |   |                   |
| Cyclohexane              | 0.3394<br>0.3698 | 0.4113<br>0.3609 | 0.3478 | 0.3400 | 0.3469 | Ave           |             | 0.3594 |    |   | 0.1000  | 7.1  |   | 20.0        |               |   |                   |
| 1,1-Dichloropropene      | 0.3861<br>0.4008 | 0.4019<br>0.4013 | 0.3871 | 0.3868 | 0.3892 | Ave           |             | 0.3933 |    |   |         | 1.9  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.



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

Lab Name: TestAmerica Canton Job No.: 240-98276-1 Analy Batch No.: 335057  
SDG No.: \_\_\_\_\_  
Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 07/06/2018 18:36 Calibration End Date: 07/06/2018 20:58 Calibration ID: 45857

| ANALYTE                   | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|---------------------------|------------------|------------------|--------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                           | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| Carbon tetrachloride      | 0.2539<br>0.3199 | 0.3056<br>0.3216 | 0.2888 | 0.2936 | 0.3030 | Ave           |             | 0.2981 |    |   | 0.1000  | 7.7  |   | 20.0        |               |   |                   |
| Isobutyl alcohol          | 0.0116<br>0.0098 | 0.0123<br>0.0089 | 0.0102 | 0.0100 | 0.0102 | Ave           |             | 0.0104 |    |   |         | 11.1 |   | 20.0        |               |   |                   |
| Benzene                   | 1.1468<br>1.2193 | 1.1989<br>1.2182 | 1.1620 | 1.1740 | 1.1894 | Ave           |             | 1.1869 |    |   | 0.5000  | 2.3  |   | 20.0        |               |   |                   |
| 1,2-Dichloroethane        | 0.4446<br>0.4294 | 0.4207<br>0.4255 | 0.4129 | 0.4228 | 0.4209 | Ave           |             | 0.4252 |    |   | 0.1000  | 2.3  |   | 20.0        |               |   |                   |
| n-Heptane                 | ++++<br>0.1245   | 1.0187<br>0.1132 | 0.1703 | 0.1372 | 0.1225 | Lin1          | 0.8918      | 0.1021 |    |   |         | 17.0 |   |             | 0.9950        |   | 0.9900            |
| Trichloroethene           | 0.2947<br>0.3003 | 0.3271<br>0.2985 | 0.2891 | 0.2914 | 0.2895 | Ave           |             | 0.2987 |    |   | 0.1500  | 4.4  |   | 20.0        |               |   |                   |
| Methylcyclohexane         | ++++<br>0.3142   | 0.4815<br>0.3063 | 0.2981 | 0.2906 | 0.2965 | Lin1          | 0.1483      | 0.3014 |    |   | 0.1000  | 7.1  |   |             | 0.9990        |   | 0.9900            |
| 1,2-Dichloropropane       | 0.2563<br>0.2770 | 0.2670<br>0.2734 | 0.2674 | 0.2681 | 0.2729 | Ave           |             | 0.2689 |    |   | 0.1000  | 2.5  |   | 20.0        |               |   |                   |
| Dibromomethane            | 0.1593<br>0.1775 | 0.1601<br>0.1767 | 0.1707 | 0.1710 | 0.1766 | Ave           |             | 0.1703 |    |   |         | 4.5  |   | 20.0        |               |   |                   |
| 1,4-Dioxane               | ++++<br>0.0034   | 0.0018<br>0.0034 | 0.0029 | 0.0026 | 0.0035 | Lin1          | -0.043      | 0.0034 |    |   |         | 13.6 |   |             | 0.9940        |   | 0.9900            |
| Bromodichloromethane      | 0.3245<br>0.3780 | 0.3400<br>0.3863 | 0.3480 | 0.3600 | 0.3736 | Ave           |             | 0.3586 |    |   | 0.1500  | 6.2  |   | 20.0        |               |   |                   |
| 2-Chloroethyl vinyl ether | 0.1709<br>0.1976 | 0.1716<br>0.1994 | 0.1814 | 0.1863 | 0.1959 | Ave           |             | 0.1861 |    |   |         | 6.5  |   | 20.0        |               |   |                   |
| cis-1,3-Dichloropropene   | 0.3694<br>0.4777 | 0.4071<br>0.4809 | 0.4351 | 0.4476 | 0.4725 | Ave           |             | 0.4415 |    |   | 0.1500  | 9.4  |   | 20.0        |               |   |                   |
| 4-Methyl-2-pentanone      | 0.2905<br>0.2956 | 0.2776<br>0.2950 | 0.2921 | 0.2894 | 0.2994 | Ave           |             | 0.2914 |    |   | 0.0500  | 2.4  |   | 20.0        |               |   |                   |
| Toluene                   | 1.6113<br>1.5620 | 1.5718<br>1.5574 | 1.5027 | 1.4934 | 1.5415 | Ave           |             | 1.5486 |    |   | 0.4000  | 2.6  |   | 20.0        |               |   |                   |
| trans-1,3-Dichloropropene | 0.4153<br>0.5585 | 0.4705<br>0.5604 | 0.4935 | 0.5149 | 0.5448 | Ave           |             | 0.5083 |    |   | 0.1000  | 10.4 |   | 20.0        |               |   |                   |
| Ethyl methacrylate        | 0.4660<br>0.5350 | 0.4680<br>0.5380 | 0.5016 | 0.5139 | 0.5377 | Ave           |             | 0.5086 |    |   |         | 6.2  |   | 20.0        |               |   |                   |
| 1,1,2-Trichloroethane     | 0.3076<br>0.3164 | 0.3056<br>0.3152 | 0.2978 | 0.3087 | 0.3178 | Ave           |             | 0.3099 |    |   | 0.1000  | 2.3  |   | 20.0        |               |   |                   |
| Tetrachloroethene         | 0.2516<br>0.2328 | 0.2597<br>0.2323 | 0.2245 | 0.2188 | 0.2227 | Ave           |             | 0.2346 |    |   | 0.1500  | 6.6  |   | 20.0        |               |   |                   |
| 1,3-Dichloropropane       | 0.5459<br>0.5884 | 0.5639<br>0.5936 | 0.5701 | 0.5756 | 0.5888 | Ave           |             | 0.5752 |    |   |         | 2.9  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1 Analy Batch No.: 335057  
SDG No.: \_\_\_\_\_  
Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 07/06/2018 18:36 Calibration End Date: 07/06/2018 20:58 Calibration ID: 45857

| ANALYTE                     | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|-----------------------------|------------------|------------------|--------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                             | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| 2-Hexanone                  | 0.2442<br>0.2559 | 0.2328<br>0.2555 | 0.2501 | 0.2534 | 0.2631 | Ave           |             | 0.2507 |    |   | 0.0500  | 3.9  |   | 20.0        |               |   |                   |
| Dibromochloromethane        | 0.2443<br>0.3156 | 0.2459<br>0.3187 | 0.2770 | 0.2936 | 0.3107 | Ave           |             | 0.2865 |    |   |         | 11.1 |   | 20.0        |               |   |                   |
| 1,2-Dibromoethane           | 0.2852<br>0.3289 | 0.3100<br>0.3259 | 0.3113 | 0.3173 | 0.3282 | Ave           |             | 0.3152 |    |   |         | 4.9  |   | 20.0        |               |   |                   |
| Chlorobenzene               | 1.0087<br>0.9572 | 0.9650<br>0.9471 | 0.9328 | 0.9256 | 0.9479 | Ave           |             | 0.9549 |    |   | 0.3000  | 2.9  |   | 20.0        |               |   |                   |
| 1,1,1,2-Tetrachloroethane   | 0.2910<br>0.3184 | 0.2927<br>0.3186 | 0.2946 | 0.3041 | 0.3159 | Ave           |             | 0.3050 |    |   |         | 4.1  |   | 20.0        |               |   |                   |
| Ethylbenzene                | 0.4790<br>0.4998 | 0.4952<br>0.4936 | 0.4823 | 0.4755 | 0.4880 | Ave           |             | 0.4876 |    |   |         | 1.9  |   | 20.0        |               |   |                   |
| m-Xylene & p-Xylene         | 0.6181<br>0.6088 | 0.6085<br>0.6095 | 0.5826 | 0.5902 | 0.6067 | Ave           |             | 0.6035 |    |   |         | 2.1  |   | 20.0        |               |   |                   |
| o-Xylene                    | 0.5835<br>0.6107 | 0.6010<br>0.6058 | 0.5865 | 0.5852 | 0.6032 | Ave           |             | 0.5966 |    |   |         | 1.9  |   | 20.0        |               |   |                   |
| Styrene                     | 1.0096<br>1.1098 | 1.0313<br>1.1001 | 1.0307 | 1.0580 | 1.0889 | Ave           |             | 1.0612 |    |   | 0.3000  | 3.7  |   | 20.0        |               |   |                   |
| Bromoform                   | ++++<br>0.1966   | 0.1495<br>0.2017 | 0.1669 | 0.1785 | 0.1947 | Ave           |             | 0.1813 |    |   | 0.1000  | 11.2 |   | 20.0        |               |   |                   |
| Isopropylbenzene            | 1.4229<br>1.3377 | 1.4807<br>1.3103 | 1.3008 | 1.3032 | 1.3219 | Ave           |             | 1.3539 |    |   | 0.1000  | 5.2  |   | 20.0        |               |   |                   |
| 1,1,2,2-Tetrachloroethane   | 0.8208<br>0.9053 | 0.7955<br>0.9151 | 0.8710 | 0.8767 | 0.9058 | Ave           |             | 0.8700 |    |   | 0.3000  | 5.3  |   | 20.0        |               |   |                   |
| Bromobenzene                | 0.6933<br>0.7600 | 0.7800<br>0.7539 | 0.7225 | 0.7207 | 0.7458 | Ave           |             | 0.7395 |    |   |         | 3.9  |   | 20.0        |               |   |                   |
| 1,2,3-Trichloropropane      | 0.2974<br>0.3011 | 0.2825<br>0.3014 | 0.2815 | 0.2863 | 0.3024 | Ave           |             | 0.2932 |    |   |         | 3.2  |   | 20.0        |               |   |                   |
| trans-1,4-Dichloro-2-butene | 0.2232<br>0.3030 | 0.2536<br>0.3070 | 0.2674 | 0.2771 | 0.2976 | Ave           |             | 0.2756 |    |   |         | 11.0 |   | 20.0        |               |   |                   |
| n-Propylbenzene             | 0.6802<br>0.6995 | 0.7466<br>0.6880 | 0.6537 | 0.6705 | 0.6916 | Ave           |             | 0.6900 |    |   |         | 4.2  |   | 20.0        |               |   |                   |
| 2-Chlorotoluene             | 0.7098<br>0.6657 | 0.6831<br>0.6588 | 0.6469 | 0.6542 | 0.6635 | Ave           |             | 0.6689 |    |   |         | 3.2  |   | 20.0        |               |   |                   |
| 1,3,5-Trimethylbenzene      | 2.1884<br>2.1623 | 2.2479<br>2.0838 | 2.0535 | 2.0794 | 2.1279 | Ave           |             | 2.1347 |    |   |         | 3.2  |   | 20.0        |               |   |                   |
| 4-Chlorotoluene             | 0.7218<br>0.7130 | 0.7866<br>0.7014 | 0.6997 | 0.6826 | 0.7041 | Ave           |             | 0.7156 |    |   |         | 4.7  |   | 20.0        |               |   |                   |
| tert-Butylbenzene           | 2.1686<br>1.9285 | 2.2556<br>1.8251 | 1.7000 | 1.8545 | 1.8938 | Ave           |             | 1.9466 |    |   |         | 10.1 |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1 Analy Batch No.: 335057  
SDG No.: \_\_\_\_\_  
Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 07/06/2018 18:36 Calibration End Date: 07/06/2018 20:58 Calibration ID: 45857

| ANALYTE                      | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|------------------------------|------------------|------------------|--------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                              | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| 1,2,4-Trimethylbenzene       | 2.5771<br>2.3023 | 2.4567<br>2.2247 | 2.2107 | 2.2128 | 2.2449 | Ave           |             | 2.3185 |    |   |         | 6.2  |   | 20.0        |               |   |                   |
| sec-Butylbenzene             | 2.6441<br>2.3146 | 2.9284<br>2.1320 | 2.2058 | 2.2090 | 2.2442 | Ave           |             | 2.3826 |    |   |         | 12.3 |   | 20.0        |               |   |                   |
| 1,3-Dichlorobenzene          | 1.4359<br>1.2503 | 1.4618<br>1.2249 | 1.2199 | 1.2292 | 1.2375 | Ave           |             | 1.2942 |    |   | 0.6000  | 8.2  |   | 20.0        |               |   |                   |
| p-Isopropyltoluene           | 2.1150<br>1.9763 | 2.3932<br>1.7862 | 1.9012 | 1.9047 | 1.9493 | Ave           |             | 2.0037 |    |   |         | 9.9  |   | 20.0        |               |   |                   |
| 1,4-Dichlorobenzene          | 1.4506<br>1.3070 | 1.4239<br>1.2801 | 1.2731 | 1.2703 | 1.2872 | Ave           |             | 1.3275 |    |   | 0.5000  | 5.8  |   | 20.0        |               |   |                   |
| n-Butylbenzene               | 2.2249<br>1.7023 | 2.4073<br>1.4911 | 1.6763 | 1.6490 | 1.6756 | Ave           |             | 1.8324 |    |   |         | 18.6 |   | 20.0        |               |   |                   |
| 1,2-Dichlorobenzene          | 1.3101<br>1.2536 | 1.3623<br>1.2121 | 1.2181 | 1.2143 | 1.2388 | Ave           |             | 1.2585 |    |   | 0.4000  | 4.5  |   | 20.0        |               |   |                   |
| 1,2-Dibromo-3-Chloropropane  | ++++<br>0.1877   | 0.1364<br>0.1885 | 0.1619 | 0.1698 | 0.1844 | Ave           |             | 0.1714 |    |   | 0.0500  | 11.8 |   | 20.0        |               |   |                   |
| 1,2,4-Trichlorobenzene       | 0.8660<br>0.5840 | 0.8629<br>0.5478 | 0.5875 | 0.5710 | 0.5764 | Lin1          | 0.2042      | 0.5630 |    |   | 0.2000  | 11.5 |   |             | 0.9990        |   | 0.9900            |
| Hexachlorobutadiene          | ++++<br>0.1879   | 0.6410<br>0.1511 | 0.2419 | 0.2088 | 0.1988 | Ave           |             | 0.2716 |    |   |         | 67.5 | * | 20.0        |               |   |                   |
| Naphthalene                  | 2.6712<br>2.3767 | 2.8074<br>2.3406 | 2.2782 | 2.2138 | 2.3566 | Ave           |             | 2.4349 |    |   |         | 9.0  |   | 20.0        |               |   |                   |
| 1,2,3-Trichlorobenzene       | 0.7434<br>0.5297 | 0.8163<br>0.5101 | 0.5384 | 0.5156 | 0.5366 | Lin1          | 0.1744      | 0.5187 |    |   |         | 15.2 |   |             | 0.9990        |   | 0.9900            |
| Dibromofluoromethane (Surr)  | 0.2071<br>0.2543 | 0.2506<br>0.2434 | 0.2424 | 0.2491 | 0.2433 | Ave           |             | 0.2415 |    |   |         | 6.5  |   | 20.0        |               |   |                   |
| 1,2-Dichloroethane-d4 (Surr) | 0.3528<br>0.3720 | 0.3598<br>0.3487 | 0.3513 | 0.3473 | 0.3493 | Ave           |             | 0.3545 |    |   |         | 2.5  |   | 20.0        |               |   |                   |
| Toluene-d8 (Surr)            | 1.2192<br>1.3391 | 1.3411<br>1.3055 | 1.2909 | 1.3026 | 1.3118 | Ave           |             | 1.3015 |    |   |         | 3.1  |   | 20.0        |               |   |                   |
| 4-Bromofluorobenzene (Surr)  | 0.4604<br>0.4611 | 0.5042<br>0.4441 | 0.4455 | 0.4494 | 0.4607 | Ave           |             | 0.4608 |    |   |         | 4.5  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1 Analy Batch No.: 335057

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2018 23:04 Calibration End Date: 07/07/2018 01:02 Calibration ID: 45861

Calibration Files:

|         |                     |              |
|---------|---------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:      | LAB FILE ID: |
| Level 1 | STDA9 240-335057/23 | UXM12466.D   |
| Level 2 | STDA9 240-335057/22 | UXM12465.D   |
| Level 3 | STDA9 240-335057/21 | UXM12464.D   |
| Level 4 | STDA9 240-335057/20 | UXM12463.D   |
| Level 5 | STDA9 240-335057/19 | UXM12462.D   |
| Level 6 | STDA9 240-335057/18 | UXM12461.D   |

| ANALYTE                       | RRF              |        |        |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|-------------------------------|------------------|--------|--------|--------|--------|------------|-------------|--------|----|---|---------|------|---|----------|------------|---|----------------|
|                               | LVL 1<br>LVL 6   | LVL 2  | LVL 3  | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |   |          |            |   |                |
| Acetonitrile                  | 0.0306<br>0.0382 | 0.0261 | 0.0386 | 0.0374 | 0.0371 | Ave        |             | 0.0347 |    |   |         | 14.8 |   | 20.0     |            |   |                |
| Diisopropyl ether             | 0.2479<br>0.2826 | 0.2687 | 0.2720 | 0.2767 | 0.2692 | Ave        |             | 0.2695 |    |   |         | 4.4  |   | 20.0     |            |   |                |
| 2-Chloro-1,3-butadiene        | 0.4040<br>0.4749 | 0.4803 | 0.4493 | 0.4375 | 0.4645 | Ave        |             | 0.4517 |    |   |         | 6.3  |   | 20.0     |            |   |                |
| Ethyl-t-butyl ether (ETBE)    | 0.8931<br>0.9626 | 0.9798 | 0.9248 | 0.9341 | 0.9086 | Ave        |             | 0.9338 |    |   |         | 3.5  |   | 20.0     |            |   |                |
| Ethyl acetate                 | 0.3108<br>0.2989 | 0.2987 | 0.2962 | 0.2919 | 0.2835 | Ave        |             | 0.2967 |    |   |         | 3.0  |   | 20.0     |            |   |                |
| Propionitrile                 | 0.0407<br>0.0487 | 0.0466 | 0.0484 | 0.0476 | 0.0469 | Ave        |             | 0.0465 |    |   |         | 6.3  |   | 20.0     |            |   |                |
| Methacrylonitrile             | 0.1955<br>0.2062 | 0.2106 | 0.2022 | 0.1970 | 0.1962 | Ave        |             | 0.2013 |    |   |         | 3.1  |   | 20.0     |            |   |                |
| Tert-amyl-methyl ether (TAME) | 0.8806<br>0.9750 | 0.9782 | 0.9415 | 0.9459 | 0.9199 | Ave        |             | 0.9402 |    |   |         | 3.9  |   | 20.0     |            |   |                |
| n-Butanol                     | 0.0072<br>0.0095 | 0.0082 | 0.0086 | 0.0087 | 0.0094 | Ave        |             | 0.0086 |    |   |         | 9.7  |   | 20.0     |            |   |                |
| Ethyl acrylate                | 0.3525<br>0.4189 | 0.3335 | 0.3917 | 0.3956 | 0.3938 | Ave        |             | 0.3810 |    |   |         | 8.3  |   | 20.0     |            |   |                |
| Methyl methacrylate           | 0.2443<br>0.2957 | 0.2566 | 0.2846 | 0.2817 | 0.2774 | Ave        |             | 0.2734 |    |   |         | 7.0  |   | 20.0     |            |   |                |
| 2-Nitropropane                | 0.0705<br>0.0976 | 0.0772 | 0.0795 | 0.0829 | 0.0887 | Ave        |             | 0.0827 |    |   |         | 11.4 |   | 20.0     |            |   |                |
| n-Butyl acetate               | 0.3803<br>0.4643 | 0.3977 | 0.4213 | 0.4390 | 0.4329 | Ave        |             | 0.4226 |    |   |         | 7.1  |   | 20.0     |            |   |                |
| 1-Chlorohexane                | 0.3965<br>0.3669 | 0.4202 | 0.3502 | 0.3345 | 0.3645 | Ave        |             | 0.3721 |    |   |         | 8.4  |   | 20.0     |            |   |                |
| Cyclohexanone                 | +++++<br>0.0287  | 0.0310 | 0.0286 | 0.0278 | 0.0296 | Ave        |             | 0.0291 |    |   |         | 4.1  |   | 20.0     |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1 Analy Batch No.: 335057

SDG No.: \_\_\_\_\_

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2018 23:04 Calibration End Date: 07/07/2018 01:02 Calibration ID: 45861

| ANALYTE                | RRF              |        |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|------------------------|------------------|--------|--------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                        | LVL 1<br>LVL 6   | LVL 2  | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| Pentachloroethane      | 0.1127<br>0.1848 | 0.1242 | 0.1274 | 0.1474 | 0.1674 | Ave           |             | 0.1440 |    |   |         | 19.3 |   | 20.0        |               |   |                   |
| 1,2,3-Trimethylbenzene | 2.3354<br>2.4479 | 2.5786 | 2.3582 | 2.3857 | 2.4127 | Ave           |             | 2.4198 |    |   |         | 3.6  |   | 20.0        |               |   |                   |
| Benzyl chloride        | 0.1681<br>0.3819 | 0.2686 | 0.2701 | 0.3007 | 0.3450 | Lin1          | -0.129      | 0.3577 |    |   |         | 17.3 |   |             | 0.9910        |   | 0.9900            |
| 1,3,5-Trichlorobenzene | ++++<br>0.6065   | 0.9588 | 0.6665 | 0.6450 | 0.6702 | Ave           |             | 0.7094 |    |   |         | 20.0 |   | 20.0        |               |   |                   |
| 2-Methylnaphthalene    | ++++<br>0.8141   | 1.6402 | 0.9562 | 0.9113 | 0.9821 | Lin1          | 1.7068      | 0.8581 |    |   |         | 9.2  |   |             | 0.9930        |   | 0.9900            |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 240-335057/15 Calibration Date: 07/06/2018 21:52

Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58

Lab File ID: UXM12458.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|---------------------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Dichlorodifluoromethane                     | Ave           | 0.3501  | 0.3075 | 0.1000  | 0.0176         | 0.0200          | -12.2 | 30.0      |
| Chloromethane                               | Ave           | 0.3416  | 0.3364 | 0.1000  | 0.0197         | 0.0200          | -1.5  | 30.0      |
| Vinyl chloride                              | Ave           | 0.3322  | 0.3628 | 0.1000  | 0.0218         | 0.0200          | 9.2   | 30.0      |
| Butadiene                                   | Ave           | 0.3124  | 0.2886 |         | 0.0185         | 0.0200          | -7.6  | 30.0      |
| Bromomethane                                | Ave           | 0.2151  | 0.2402 | 0.0500  | 0.0223         | 0.0200          | 11.7  | 30.0      |
| Chloroethane                                | Ave           | 0.2254  | 0.2415 | 0.0500  | 0.0214         | 0.0200          | 7.2   | 30.0      |
| Dichlorofluoromethane                       | Ave           | 0.4835  | 0.5637 |         | 0.0233         | 0.0200          | 16.6  | 30.0      |
| Trichlorofluoromethane                      | Ave           | 0.3823  | 0.4218 | 0.1000  | 0.0221         | 0.0200          | 10.3  | 30.0      |
| Ethyl ether                                 | Ave           | 0.2374  | 0.2830 |         | 0.0238         | 0.0200          | 19.2  | 30.0      |
| Acrolein                                    | Ave           | 0.0568  | 0.0355 |         | 0.0625         | 0.100           | -37.5 | 50.0      |
| 1,1-Dichloroethene                          | Ave           | 0.2294  | 0.2811 | 0.1000  | 0.0245         | 0.0200          | 22.5  | 30.0      |
| 1,1,2-Trichloro-1,2,2-trichf<br>luoroethane | Ave           | 0.1581  | 0.1886 | 0.0500  | 0.0239         | 0.0200          | 19.3  | 30.0      |
| Acetone                                     | Ave           | 0.0313  | 0.0332 | 0.0100  | 0.0425         | 0.0400          | 6.3   | 50.0      |
| Iodomethane                                 | Ave           | 0.3694  | 0.4475 |         | 0.0242         | 0.0200          | 21.1  | 30.0      |
| Carbon disulfide                            | Ave           | 0.6001  | 0.6656 | 0.1000  | 0.0222         | 0.0200          | 10.9  | 30.0      |
| 3-Chloro-1-propene                          | Ave           | 0.4305  | 0.4861 |         | 0.0226         | 0.0200          | 12.9  | 30.0      |
| Methyl acetate                              | Ave           | 0.2509  | 0.2661 | 0.1000  | 0.0424         | 0.0400          | 6.1   | 30.0      |
| Methylene Chloride                          | Ave           | 0.2986  | 0.3205 | 0.1000  | 0.0215         | 0.0200          | 7.3   | 50.0      |
| tert-Butyl alcohol                          | Ave           | 0.0303  | 0.0349 |         | 0.230          | 0.200           | 15.1  | 50.0      |
| Acrylonitrile                               | Ave           | 0.1235  | 0.1365 |         | 0.221          | 0.200           | 10.5  | 30.0      |
| Methyl tert-butyl ether                     | Ave           | 0.9283  | 1.074  | 0.1000  | 0.0231         | 0.0200          | 15.7  | 30.0      |
| trans-1,2-Dichloroethene                    | Ave           | 0.2866  | 0.3416 | 0.1000  | 0.0238         | 0.0200          | 19.2  | 30.0      |
| Hexane                                      | Lin1          |         | 0.2500 |         | 0.0216         | 0.0200          | 7.9   | 30.0      |
| 1,1-Dichloroethane                          | Ave           | 0.4918  | 0.5499 | 0.2000  | 0.0224         | 0.0200          | 11.8  | 30.0      |
| Vinyl acetate                               | Ave           | 0.4878  | 0.6271 |         | 0.0257         | 0.0200          | 28.6  | 50.0      |
| 2,2-Dichloropropane                         | Ave           | 0.0726  | 0.0750 |         | 0.0207         | 0.0200          | 3.4   | 30.0      |
| 2-Butanone                                  | Ave           | 0.0429  | 0.0486 | 0.0100  | 0.0453         | 0.0400          | 13.3  | 30.0      |
| cis-1,2-Dichloroethene                      | Ave           | 0.3171  | 0.3699 | 0.1000  | 0.0233         | 0.0200          | 16.6  | 30.0      |
| Bromochloromethane                          | Ave           | 0.1407  | 0.1646 |         | 0.0234         | 0.0200          | 17.0  | 30.0      |
| Tetrahydrofuran                             | Ave           | 0.1000  | 0.1060 |         | 0.0424         | 0.0400          | 6.0   | 30.0      |
| Chloroform                                  | Ave           | 0.4857  | 0.5539 | 0.2000  | 0.0228         | 0.0200          | 14.0  | 30.0      |
| 1,1,1-Trichloroethane                       | Ave           | 0.3857  | 0.4572 | 0.1000  | 0.0237         | 0.0200          | 18.5  | 30.0      |
| Cyclohexane                                 | Ave           | 0.3594  | 0.3936 | 0.1000  | 0.0219         | 0.0200          | 9.5   | 30.0      |
| 1,1-Dichloropropene                         | Ave           | 0.3933  | 0.4369 |         | 0.0222         | 0.0200          | 11.1  | 30.0      |
| Carbon tetrachloride                        | Ave           | 0.2981  | 0.3487 | 0.1000  | 0.0234         | 0.0200          | 17.0  | 30.0      |
| Isobutyl alcohol                            | Ave           | 0.0104  | 0.0109 |         | 0.524          | 0.500           | 4.8   | 30.0      |
| 1,2-Dichloroethane                          | Ave           | 0.4252  | 0.4827 | 0.1000  | 0.0227         | 0.0200          | 13.5  | 30.0      |
| Benzene                                     | Ave           | 1.187   | 1.339  | 0.5000  | 0.0226         | 0.0200          | 12.8  | 30.0      |
| n-Heptane                                   | Lin1          |         | 0.1447 |         | 0.0196         | 0.0200          | -1.9  | 30.0      |
| Trichloroethene                             | Ave           | 0.2987  | 0.3311 | 0.1500  | 0.0222         | 0.0200          | 10.9  | 30.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 240-335057/15 Calibration Date: 07/06/2018 21:52

Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58

Lab File ID: UXM12458.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|-----------------------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| Methylcyclohexane           | Lin1          |         | 0.3144 | 0.1000  | 0.0204         | 0.0200          | 1.8  | 30.0      |
| 1,2-Dichloropropane         | Ave           | 0.2689  | 0.3134 | 0.1000  | 0.0233         | 0.0200          | 16.6 | 30.0      |
| 1,4-Dioxane                 | Lin1          |         | 0.0036 |         | 0.436          | 0.400           | 9.0  | 50.0      |
| Dibromomethane              | Ave           | 0.1703  | 0.1911 |         | 0.0224         | 0.0200          | 12.2 | 30.0      |
| Bromodichloromethane        | Ave           | 0.3586  | 0.4152 | 0.1500  | 0.0232         | 0.0200          | 15.8 | 30.0      |
| 2-Chloroethyl vinyl ether   | Ave           | 0.1861  | 0.2132 |         | 0.0229         | 0.0200          | 14.5 | 30.0      |
| cis-1,3-Dichloropropene     | Ave           | 0.4415  | 0.5327 | 0.1500  | 0.0241         | 0.0200          | 20.7 | 30.0      |
| 4-Methyl-2-pentanone        | Ave           | 0.2914  | 0.3395 | 0.0500  | 0.0466         | 0.0400          | 16.5 | 30.0      |
| Toluene                     | Ave           | 1.549   | 1.754  | 0.4000  | 0.0227         | 0.0200          | 13.3 | 30.0      |
| trans-1,3-Dichloropropene   | Ave           | 0.5083  | 0.5869 | 0.1000  | 0.0231         | 0.0200          | 15.5 | 30.0      |
| Ethyl methacrylate          | Ave           | 0.5086  | 0.5914 |         | 0.0233         | 0.0200          | 16.3 | 30.0      |
| 1,1,2-Trichloroethane       | Ave           | 0.3099  | 0.3670 | 0.1000  | 0.0237         | 0.0200          | 18.4 | 30.0      |
| 1,3-Dichloropropane         | Ave           | 0.5752  | 0.6587 |         | 0.0229         | 0.0200          | 14.5 | 30.0      |
| Tetrachloroethene           | Ave           | 0.2346  | 0.2529 | 0.1500  | 0.0216         | 0.0200          | 7.8  | 30.0      |
| 2-Hexanone                  | Ave           | 0.2507  | 0.2913 | 0.0500  | 0.0465         | 0.0400          | 16.2 | 30.0      |
| Dibromochloromethane        | Ave           | 0.2865  | 0.3382 |         | 0.0236         | 0.0200          | 18.0 | 30.0      |
| 1,2-Dibromoethane           | Ave           | 0.3152  | 0.3705 |         | 0.0235         | 0.0200          | 17.5 | 30.0      |
| Chlorobenzene               | Ave           | 0.9549  | 1.075  | 0.3000  | 0.0225         | 0.0200          | 12.6 | 30.0      |
| 1,1,1,2-Tetrachloroethane   | Ave           | 0.3050  | 0.3491 |         | 0.0229         | 0.0200          | 14.4 | 30.0      |
| Ethylbenzene                | Ave           | 0.4876  | 0.5502 |         | 0.0226         | 0.0200          | 12.8 | 30.0      |
| m-Xylene & p-Xylene         | Ave           | 0.6035  | 0.6898 |         | 0.0229         | 0.0200          | 14.3 | 30.0      |
| o-Xylene                    | Ave           | 0.5966  | 0.6825 |         | 0.0229         | 0.0200          | 14.4 | 30.0      |
| Styrene                     | Ave           | 1.061   | 1.200  | 0.3000  | 0.0226         | 0.0200          | 13.1 | 30.0      |
| Bromoform                   | Ave           | 0.1813  | 0.2098 | 0.1000  | 0.0231         | 0.0200          | 15.7 | 30.0      |
| Isopropylbenzene            | Ave           | 1.354   | 1.500  | 0.1000  | 0.0222         | 0.0200          | 10.8 | 30.0      |
| 1,1,2,2-Tetrachloroethane   | Ave           | 0.8700  | 1.003  | 0.3000  | 0.0231         | 0.0200          | 15.3 | 30.0      |
| Bromobenzene                | Ave           | 0.7395  | 0.8252 |         | 0.0223         | 0.0200          | 11.6 | 30.0      |
| 1,2,3-Trichloropropane      | Ave           | 0.2932  | 0.3440 |         | 0.0235         | 0.0200          | 17.3 | 30.0      |
| trans-1,4-Dichloro-2-butene | Ave           | 0.2756  | 0.3267 |         | 0.0237         | 0.0200          | 18.6 | 30.0      |
| n-Propylbenzene             | Ave           | 0.6900  | 0.7460 |         | 0.0216         | 0.0200          | 8.1  | 30.0      |
| 2-Chlorotoluene             | Ave           | 0.6689  | 0.7344 |         | 0.0220         | 0.0200          | 9.8  | 30.0      |
| 1,3,5-Trimethylbenzene      | Ave           | 2.135   | 2.280  |         | 0.0214         | 0.0200          | 6.8  | 30.0      |
| 4-Chlorotoluene             | Ave           | 0.7156  | 0.7791 |         | 0.0218         | 0.0200          | 8.9  | 30.0      |
| tert-Butylbenzene           | Ave           | 1.947   | 2.049  |         | 0.0210         | 0.0200          | 5.2  | 30.0      |
| 1,2,4-Trimethylbenzene      | Ave           | 2.318   | 2.446  |         | 0.0211         | 0.0200          | 5.5  | 30.0      |
| sec-Butylbenzene            | Ave           | 2.383   | 2.372  |         | 0.0199         | 0.0200          | -0.4 | 30.0      |
| 1,3-Dichlorobenzene         | Ave           | 1.294   | 1.360  | 0.6000  | 0.0210         | 0.0200          | 5.1  | 30.0      |
| p-Isopropyltoluene          | Ave           | 2.004   | 2.063  |         | 0.0206         | 0.0200          | 3.0  | 30.0      |
| 1,4-Dichlorobenzene         | Ave           | 1.327   | 1.422  | 0.5000  | 0.0214         | 0.0200          | 7.1  | 30.0      |
| n-Butylbenzene              | Ave           | 1.832   | 1.677  |         | 0.0183         | 0.0200          | -8.5 | 30.0      |
| 1,2-Dichlorobenzene         | Ave           | 1.258   | 1.378  | 0.4000  | 0.0219         | 0.0200          | 9.5  | 30.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 240-335057/15 Calibration Date: 07/06/2018 21:52  
 Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58  
 Lab File ID: UXM12458.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D     | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| 1,2-Dibromo-3-Chloropropane  | Ave           | 0.1714  | 0.1986 | 0.0500  | 0.0232         | 0.0200          | 15.8   | 50.0      |
| 1,2,4-Trichlorobenzene       | Lin1          |         | 0.5768 | 0.2000  | 0.0201         | 0.0200          | 0.6    | 50.0      |
| Hexachlorobutadiene          | Ave           | 0.2716  | 0.1877 |         | 0.0138         | 0.0200          | -30.9* | 30.0      |
| Naphthalene                  | Ave           | 2.435   | 2.431  |         | 0.0200         | 0.0200          | -0.2   | 50.0      |
| 1,2,3-Trichlorobenzene       | Lin1          |         | 0.5234 |         | 0.0198         | 0.0200          | -0.8   | 30.0      |
| Dibromofluoromethane (Surr)  | Ave           | 0.2415  | 0.2290 |         | 0.0190         | 0.0200          | -5.2   | 30.0      |
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.3545  | 0.3259 |         | 0.0184         | 0.0200          | -8.1   | 30.0      |
| Toluene-d8 (Surr)            | Ave           | 1.301   | 1.285  |         | 0.0197         | 0.0200          | -1.3   | 30.0      |
| 4-Bromofluorobenzene (Surr)  | Ave           | 0.4608  | 0.4681 |         | 0.0203         | 0.0200          | 1.6    | 30.0      |



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: ICV 240-335057/24 Calibration Date: 07/07/2018 01:26  
Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36  
GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58  
Lab File ID: UXM12467.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Dibromofluoromethane (Surr)  | Ave           | 0.2415  | 0.2010 |         | 0.0166         | 0.0200          | -16.8 | 30.0      |
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.3545  | 0.2855 |         | 0.0161         | 0.0200          | -19.4 | 30.0      |
| Toluene-d8 (Surr)            | Ave           | 1.301   | 1.126  |         | 0.0173         | 0.0200          | -13.5 | 30.0      |
| 4-Bromofluorobenzene (Surr)  | Ave           | 0.4608  | 0.4103 |         | 0.0178         | 0.0200          | -11.0 | 30.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 240-335057/24 Calibration Date: 07/07/2018 01:26  
 Instrument ID: A3UX16 Calib Start Date: 07/06/2018 23:04  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/07/2018 01:02  
 Lab File ID: UXM12467.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                          | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|----------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Acetonitrile                     | Ave           | 0.0347  | 0.0381 |         | 0.220          | 0.200           | 9.8   | 30.0      |
| Diisopropyl ether                | Ave           | 0.2695  | 0.2774 |         | 0.0206         | 0.0200          | 2.9   | 30.0      |
| 2-Chloro-1,3-butadiene           | Ave           | 0.4517  | 0.4426 |         | 0.0196         | 0.0200          | -2.0  | 30.0      |
| Ethyl-t-butyl ether (ETBE)       | Ave           | 0.9338  | 0.9252 |         | 0.0198         | 0.0200          | -0.9  | 30.0      |
| Ethyl acetate                    | Ave           | 0.2967  | 0.2976 |         | 0.0401         | 0.0400          | 0.3   | 50.0      |
| Propionitrile                    | Ave           | 0.0465  | 0.0487 |         | 0.210          | 0.200           | 4.8   | 30.0      |
| Methacrylonitrile                | Ave           | 0.2013  | 0.2043 |         | 0.203          | 0.200           | 1.5   | 30.0      |
| Tert-amyl-methyl ether<br>(TAME) | Ave           | 0.9402  | 0.9395 |         | 0.0200         | 0.0200          | -0.0  | 30.0      |
| n-Butanol                        | Ave           | 0.0086  | 0.0085 |         | 0.497          | 0.500           | -0.6  | 30.0      |
| Ethyl acrylate                   | Ave           | 0.3810  | 0.4046 |         | 0.0212         | 0.0200          | 6.2   | 30.0      |
| Methyl methacrylate              | Ave           | 0.2734  | 0.2901 |         | 0.0424         | 0.0400          | 6.1   | 30.0      |
| 2-Nitropropane                   | Ave           | 0.0827  | 0.0849 |         | 0.0410         | 0.0400          | 2.6   | 30.0      |
| n-Butyl acetate                  | Ave           | 0.4226  | 0.4604 |         | 0.0218         | 0.0200          | 9.0   | 30.0      |
| 1-Chlorohexane                   | Ave           | 0.3721  | 0.3338 |         | 0.0179         | 0.0200          | -10.3 | 30.0      |
| Cyclohexanone                    | Ave           | 0.0291  | 0.0296 |         | 0.203          | 0.200           | 1.5   | 30.0      |
| Pentachloroethane                | Ave           | 0.1440  | 0.1056 |         | 0.0293         | 0.0400          | -26.7 | 30.0      |
| 1,2,3-Trimethylbenzene           | Ave           | 2.420   | 2.380  |         | 0.0197         | 0.0200          | -1.6  | 30.0      |
| Benzyl chloride                  | Lin1          |         | 0.2667 |         | 0.0153         | 0.0200          | -23.6 | 30.0      |
| 1,3,5-Trichlorobenzene           | Ave           | 0.7094  | 0.6087 |         | 0.0172         | 0.0200          | -14.2 | 30.0      |
| 2-Methylnaphthalene              | Lin1          |         | 0.7613 |         | 0.0335         | 0.0400          | -16.3 | 30.0      |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: BFB5692.D BFB Injection Date: 07/18/2018  
 Instrument ID: A3UX16 BFB Injection Time: 08:42  
 Analysis Batch No.: 336777

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 19.5                 |
| 75  | 30.0 - 60.0 % of mass 95           | 49.8                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.2                  |
| 173 | Less than 2.0 % of mass 174        | 0.6 (0.8) 1          |
| 174 | 50.0 - 120.00 % of mass 95         | 67.7                 |
| 175 | 5.0 - 9.0 % of mass 174            | 5.0 (7.5) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 66.3 (98.0) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 4.4 (6.6) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
|                  | CCVIS 240-336777/4 | UXM12723.D  | 07/18/2018    | 09:14         |
|                  | LCS 240-336777/5   | UXM12724.D  | 07/18/2018    | 09:38         |
|                  | CCV 240-336777/6   | UXM12725.D  | 07/18/2018    | 10:06         |
|                  | MB 240-336777/9    | UXM12728.D  | 07/18/2018    | 11:17         |
| MSA-SW38B-070918 | 240-98276-6        | UXM12747.D  | 07/18/2018    | 19:08         |
| MSA-SW38C-070918 | 240-98276-7        | UXM12748.D  | 07/18/2018    | 19:32         |
| MSA-SW38D-070918 | 240-98276-8        | UXM12749.D  | 07/18/2018    | 19:56         |
| MSA-SW39A-070918 | 240-98276-9        | UXM12750.D  | 07/18/2018    | 20:20         |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 240-336777/4 Calibration Date: 07/18/2018 09:14

Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58

Lab File ID: UXM12723.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                                  | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|------------------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Dichlorodifluoromethane                  | Ave        | 0.3501  | 0.3379 | 0.1000  | 0.0193      | 0.0200       | -3.5  | 20.0   |
| Chloromethane                            | Ave        | 0.3416  | 0.3683 | 0.1000  | 0.0216      | 0.0200       | 7.8   | 20.0   |
| Vinyl chloride                           | Ave        | 0.3322  | 0.4029 | 0.1000  | 0.0243      | 0.0200       | 21.3* | 20.0   |
| Butadiene                                | Ave        | 0.3124  | 0.3521 |         | 0.0225      | 0.0200       | 12.7  | 20.0   |
| Bromomethane                             | Ave        | 0.2151  | 0.2636 | 0.0500  | 0.0245      | 0.0200       | 22.5* | 20.0   |
| Chloroethane                             | Ave        | 0.2254  | 0.2636 | 0.0500  | 0.0234      | 0.0200       | 17.0  | 20.0   |
| Dichlorofluoromethane                    | Ave        | 0.4835  | 0.5676 |         | 0.0235      | 0.0200       | 17.4  | 20.0   |
| Trichlorofluoromethane                   | Ave        | 0.3823  | 0.4134 | 0.1000  | 0.0216      | 0.0200       | 8.1   | 20.0   |
| Ethyl ether                              | Ave        | 0.2374  | 0.2982 |         | 0.0251      | 0.0200       | 25.6* | 20.0   |
| Acrolein                                 | Ave        | 0.0568  | 0.0668 |         | 0.118       | 0.100        | 17.6  | 50.0   |
| 1,1-Dichloroethene                       | Ave        | 0.2294  | 0.2842 | 0.1000  | 0.0248      | 0.0200       | 23.9* | 20.0   |
| Acetone                                  | Ave        | 0.0313  | 0.0382 | 0.0100  | 0.0489      | 0.0400       | 22.3  | 50.0   |
| 1,1,2-Trichloro-1,2,2-trichf luoroethane | Ave        | 0.1581  | 0.1780 | 0.0500  | 0.0225      | 0.0200       | 12.6  | 20.0   |
| Iodomethane                              | Ave        | 0.3694  | 0.4384 |         | 0.0237      | 0.0200       | 18.7  | 20.0   |
| Carbon disulfide                         | Ave        | 0.6001  | 0.6161 | 0.1000  | 0.0205      | 0.0200       | 2.7   | 20.0   |
| 3-Chloro-1-propene                       | Ave        | 0.4305  | 0.5263 |         | 0.0245      | 0.0200       | 22.3* | 20.0   |
| Methyl acetate                           | Ave        | 0.2509  | 0.3265 | 0.1000  | 0.0521      | 0.0400       | 30.1* | 20.0   |
| Methylene Chloride                       | Ave        | 0.2986  | 0.3313 | 0.1000  | 0.0222      | 0.0200       | 10.9  | 50.0   |
| tert-Butyl alcohol                       | Ave        | 0.0303  | 0.0386 |         | 0.254       | 0.200        | 27.1  | 50.0   |
| Acrylonitrile                            | Ave        | 0.1235  | 0.1539 |         | 0.249       | 0.200        | 24.6* | 20.0   |
| Methyl tert-butyl ether                  | Ave        | 0.9283  | 1.057  | 0.1000  | 0.0228      | 0.0200       | 13.8  | 20.0   |
| trans-1,2-Dichloroethene                 | Ave        | 0.2866  | 0.3400 | 0.1000  | 0.0237      | 0.0200       | 18.6  | 20.0   |
| Hexane                                   | Lin1       |         | 0.2571 |         | 0.0222      | 0.0200       | 11.0  | 20.0   |
| 1,1-Dichloroethane                       | Ave        | 0.4918  | 0.5727 | 0.2000  | 0.0233      | 0.0200       | 16.5  | 20.0   |
| Vinyl acetate                            | Ave        | 0.4878  | 0.5109 |         | 0.0209      | 0.0200       | 4.7   | 50.0   |
| 2,2-Dichloropropane                      | Ave        | 0.0726  | 0.0761 |         | 0.0210      | 0.0200       | 4.9   | 20.0   |
| cis-1,2-Dichloroethene                   | Ave        | 0.3171  | 0.3792 | 0.1000  | 0.0239      | 0.0200       | 19.6  | 20.0   |
| 2-Butanone                               | Ave        | 0.0429  | 0.0513 | 0.0100  | 0.0478      | 0.0400       | 19.6  | 20.0   |
| Bromochloromethane                       | Ave        | 0.1407  | 0.1659 |         | 0.0236      | 0.0200       | 17.9  | 20.0   |
| Tetrahydrofuran                          | Ave        | 0.1000  | 0.1134 |         | 0.0453      | 0.0400       | 13.4  | 20.0   |
| Chloroform                               | Ave        | 0.4857  | 0.5616 | 0.2000  | 0.0231      | 0.0200       | 15.6  | 20.0   |
| 1,1,1-Trichloroethane                    | Ave        | 0.3857  | 0.4376 | 0.1000  | 0.0227      | 0.0200       | 13.5  | 20.0   |
| Cyclohexane                              | Ave        | 0.3594  | 0.4142 | 0.1000  | 0.0230      | 0.0200       | 15.2  | 20.0   |
| 1,1-Dichloropropene                      | Ave        | 0.3933  | 0.4567 |         | 0.0232      | 0.0200       | 16.1  | 20.0   |
| Carbon tetrachloride                     | Ave        | 0.2981  | 0.3340 | 0.1000  | 0.0224      | 0.0200       | 12.0  | 20.0   |
| Isobutyl alcohol                         | Ave        | 0.0104  | 0.0122 |         | 0.584       | 0.500        | 16.9  | 20.0   |
| 1,2-Dichloroethane                       | Ave        | 0.4252  | 0.4807 | 0.1000  | 0.0226      | 0.0200       | 13.0  | 20.0   |
| Benzene                                  | Ave        | 1.187   | 1.428  | 0.5000  | 0.0241      | 0.0200       | 20.3* | 20.0   |
| n-Heptane                                | Lin1       |         | 0.1439 |         | 0.0195      | 0.0200       | -2.7  | 20.0   |
| Trichloroethene                          | Ave        | 0.2987  | 0.3340 | 0.1500  | 0.0224      | 0.0200       | 11.8  | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 240-336777/4 Calibration Date: 07/18/2018 09:14

Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58

Lab File ID: UXM12723.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                     | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|-----------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Methylcyclohexane           | Lin1       |         | 0.3274 | 0.1000  | 0.0212      | 0.0200       | 6.2   | 20.0   |
| 1,2-Dichloropropane         | Ave        | 0.2689  | 0.3210 | 0.1000  | 0.0239      | 0.0200       | 19.4  | 20.0   |
| 1,4-Dioxane                 | Lin1       |         | 0.0043 |         | 0.519       | 0.400        | 29.7  | 50.0   |
| Dibromomethane              | Ave        | 0.1703  | 0.2009 |         | 0.0236      | 0.0200       | 18.0  | 20.0   |
| Bromodichloromethane        | Ave        | 0.3586  | 0.4118 | 0.1500  | 0.0230      | 0.0200       | 14.8  | 20.0   |
| 2-Chloroethyl vinyl ether   | Ave        | 0.1861  | 0.2148 |         | 0.0462      | 0.0400       | 15.4  | 20.0   |
| cis-1,3-Dichloropropene     | Ave        | 0.4415  | 0.5073 | 0.1500  | 0.0230      | 0.0200       | 14.9  | 20.0   |
| 4-Methyl-2-pentanone        | Ave        | 0.2914  | 0.3578 | 0.0500  | 0.0491      | 0.0400       | 22.8* | 20.0   |
| Toluene                     | Ave        | 1.549   | 1.644  | 0.4000  | 0.0212      | 0.0200       | 6.2   | 20.0   |
| trans-1,3-Dichloropropene   | Ave        | 0.5083  | 0.5310 | 0.1000  | 0.0209      | 0.0200       | 4.5   | 20.0   |
| Ethyl methacrylate          | Ave        | 0.5086  | 0.5829 |         | 0.0229      | 0.0200       | 14.6  | 20.0   |
| 1,1,2-Trichloroethane       | Ave        | 0.3099  | 0.3346 | 0.1000  | 0.0216      | 0.0200       | 8.0   | 20.0   |
| Tetrachloroethene           | Ave        | 0.2346  | 0.2396 | 0.1500  | 0.0204      | 0.0200       | 2.1   | 20.0   |
| 1,3-Dichloropropane         | Ave        | 0.5752  | 0.6325 |         | 0.0220      | 0.0200       | 10.0  | 20.0   |
| 2-Hexanone                  | Ave        | 0.2507  | 0.2916 | 0.0500  | 0.0465      | 0.0400       | 16.3  | 20.0   |
| Dibromochloromethane        | Ave        | 0.2865  | 0.3031 |         | 0.0212      | 0.0200       | 5.8   | 20.0   |
| 1,2-Dibromoethane           | Ave        | 0.3152  | 0.3413 |         | 0.0217      | 0.0200       | 8.3   | 20.0   |
| Chlorobenzene               | Ave        | 0.9549  | 1.007  | 0.3000  | 0.0211      | 0.0200       | 5.5   | 20.0   |
| 1,1,1,2-Tetrachloroethane   | Ave        | 0.3050  | 0.3172 |         | 0.0208      | 0.0200       | 4.0   | 20.0   |
| Ethylbenzene                | Ave        | 0.4876  | 0.5077 |         | 0.0208      | 0.0200       | 4.1   | 20.0   |
| m-Xylene & p-Xylene         | Ave        | 0.6035  | 0.6441 |         | 0.0213      | 0.0200       | 6.7   | 20.0   |
| o-Xylene                    | Ave        | 0.5966  | 0.6454 |         | 0.0216      | 0.0200       | 8.2   | 20.0   |
| Styrene                     | Ave        | 1.061   | 1.159  | 0.3000  | 0.0218      | 0.0200       | 9.2   | 20.0   |
| Bromoform                   | Ave        | 0.1813  | 0.1815 | 0.1000  | 0.0200      | 0.0200       | 0.1   | 20.0   |
| Isopropylbenzene            | Ave        | 1.354   | 1.405  | 0.1000  | 0.0208      | 0.0200       | 3.8   | 20.0   |
| 1,1,2,2-Tetrachloroethane   | Ave        | 0.8700  | 0.9745 | 0.3000  | 0.0224      | 0.0200       | 12.0  | 20.0   |
| Bromobenzene                | Ave        | 0.7395  | 0.7661 |         | 0.0207      | 0.0200       | 3.6   | 20.0   |
| 1,2,3-Trichloropropane      | Ave        | 0.2932  | 0.3191 |         | 0.0218      | 0.0200       | 8.8   | 20.0   |
| trans-1,4-Dichloro-2-butene | Ave        | 0.2756  | 0.2972 |         | 0.0216      | 0.0200       | 7.9   | 20.0   |
| n-Propylbenzene             | Ave        | 0.6900  | 0.7217 |         | 0.0209      | 0.0200       | 4.6   | 20.0   |
| 2-Chlorotoluene             | Ave        | 0.6689  | 0.7044 |         | 0.0211      | 0.0200       | 5.3   | 20.0   |
| 1,3,5-Trimethylbenzene      | Ave        | 2.135   | 2.217  |         | 0.0208      | 0.0200       | 3.8   | 20.0   |
| 4-Chlorotoluene             | Ave        | 0.7156  | 0.7282 |         | 0.0204      | 0.0200       | 1.8   | 20.0   |
| tert-Butylbenzene           | Ave        | 1.947   | 1.773  |         | 0.0182      | 0.0200       | -8.9  | 20.0   |
| 1,2,4-Trimethylbenzene      | Ave        | 2.318   | 2.337  |         | 0.0202      | 0.0200       | 0.8   | 20.0   |
| sec-Butylbenzene            | Ave        | 2.383   | 2.263  |         | 0.0190      | 0.0200       | -5.0  | 20.0   |
| 1,3-Dichlorobenzene         | Ave        | 1.294   | 1.300  | 0.6000  | 0.0201      | 0.0200       | 0.5   | 20.0   |
| p-Isopropyltoluene          | Ave        | 2.004   | 1.932  |         | 0.0193      | 0.0200       | -3.6  | 20.0   |
| 1,4-Dichlorobenzene         | Ave        | 1.327   | 1.374  | 0.5000  | 0.0207      | 0.0200       | 3.5   | 20.0   |
| n-Butylbenzene              | Ave        | 1.832   | 1.617  |         | 0.0176      | 0.0200       | -11.8 | 20.0   |
| 1,2-Dichlorobenzene         | Ave        | 1.258   | 1.292  | 0.4000  | 0.0205      | 0.0200       | 2.7   | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 240-336777/4 Calibration Date: 07/18/2018 09:14  
 Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58  
 Lab File ID: UXM12723.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D     | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| 1,2-Dibromo-3-Chloropropane  | Ave           | 0.1714  | 0.1735 | 0.0500  | 0.0202         | 0.0200          | 1.2    | 50.0      |
| 1,2,4-Trichlorobenzene       | Lin1          |         | 0.5391 | 0.2000  | 0.0188         | 0.0200          | -6.1   | 50.0      |
| Hexachlorobutadiene          | Ave           | 0.2716  | 0.1722 |         | 0.0127         | 0.0200          | -36.6* | 20.0      |
| Naphthalene                  | Ave           | 2.435   | 2.163  |         | 0.0178         | 0.0200          | -11.2  | 50.0      |
| 1,2,3-Trichlorobenzene       | Lin1          |         | 0.4919 |         | 0.0186         | 0.0200          | -6.8   | 20.0      |
| Dibromofluoromethane (Surr)  | Ave           | 0.2415  | 0.2516 |         | 0.0208         | 0.0200          | 4.2    | 20.0      |
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.3545  | 0.3587 |         | 0.0202         | 0.0200          | 1.2    | 20.0      |
| Toluene-d8 (Surr)            | Ave           | 1.301   | 1.271  |         | 0.0195         | 0.0200          | -2.4   | 20.0      |
| 4-Bromofluorobenzene (Surr)  | Ave           | 0.4608  | 0.4414 |         | 0.0192         | 0.0200          | -4.2   | 20.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 240-336777/6 Calibration Date: 07/18/2018 10:06  
 Instrument ID: A3UX16 Calib Start Date: 07/06/2018 23:04  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/07/2018 01:02  
 Lab File ID: UXM12725.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                          | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D     | MAX<br>%D |
|----------------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| Acetonitrile                     | Ave           | 0.0347  | 0.0426 |         | 0.246          | 0.200           | 23.0*  | 20.0      |
| Diisopropyl ether                | Ave           | 0.2695  | 0.2750 |         | 0.0204         | 0.0200          | 2.0    | 20.0      |
| 2-Chloro-1,3-butadiene           | Ave           | 0.4517  | 0.4658 |         | 0.0206         | 0.0200          | 3.1    | 20.0      |
| Ethyl-t-butyl ether (ETBE)       | Ave           | 0.9338  | 0.9325 |         | 0.0200         | 0.0200          | -0.1   | 20.0      |
| Ethyl acetate                    | Ave           | 0.2967  | 0.3440 |         | 0.0464         | 0.0400          | 15.9   | 50.0      |
| Propionitrile                    | Ave           | 0.0465  | 0.0553 |         | 0.238          | 0.200           | 18.9   | 20.0      |
| Methacrylonitrile                | Ave           | 0.2013  | 0.2220 |         | 0.221          | 0.200           | 10.3   | 20.0      |
| Tert-amyl-methyl ether<br>(TAME) | Ave           | 0.9402  | 0.9417 |         | 0.0200         | 0.0200          | 0.2    | 20.0      |
| n-Butanol                        | Ave           | 0.0086  | 0.0094 |         | 0.546          | 0.500           | 9.1    | 20.0      |
| Ethyl acrylate                   | Ave           | 0.3810  | 0.4477 |         | 0.0235         | 0.0200          | 17.5   | 20.0      |
| Methyl methacrylate              | Ave           | 0.2734  | 0.3102 |         | 0.0454         | 0.0400          | 13.5   | 20.0      |
| 2-Nitropropane                   | Ave           | 0.0827  | 0.0811 |         | 0.0392         | 0.0400          | -2.0   | 20.0      |
| n-Butyl acetate                  | Ave           | 0.4226  | 0.5035 |         | 0.0238         | 0.0200          | 19.2   | 20.0      |
| 1-Chlorohexane                   | Ave           | 0.3721  | 0.3227 |         | 0.0173         | 0.0200          | -13.3  | 20.0      |
| Cyclohexanone                    | Ave           | 0.0291  | 0.0287 |         | 0.197          | 0.200           | -1.5   | 20.0      |
| Pentachloroethane                | Ave           | 0.1440  | 0.1513 |         | 0.0420         | 0.0400          | 5.1    | 20.0      |
| 1,2,3-Trimethylbenzene           | Ave           | 2.420   | 2.088  |         | 0.0173         | 0.0200          | -13.7  | 20.0      |
| Benzyl chloride                  | Lin1          |         | 0.2519 |         | 0.0144         | 0.0200          | -27.8* | 20.0      |
| 1,3,5-Trichlorobenzene           | Ave           | 0.7094  | 0.4733 |         | 0.0133         | 0.0200          | -33.3* | 20.0      |
| 2-Methylnaphthalene              | Lin1          |         | 0.6073 |         | 0.0263         | 0.0400          | -34.2* | 20.0      |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Lab File ID: BFB5693.D BFB Injection Date: 07/19/2018  
Instrument ID: A3UX16 BFB Injection Time: 09:15  
Analysis Batch No.: 336990

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 18.6                 |
| 75  | 30.0 - 60.0 % of mass 95           | 51.2                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.7                  |
| 173 | Less than 2.0 % of mass 174        | 0.4 (0.6) 1          |
| 174 | 50.0 - 120.00 % of mass 95         | 72.7                 |
| 175 | 5.0 - 9.0 % of mass 174            | 5.0 (6.9) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 69.8 (96.0) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 4.2 (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 |
|------------------|--------------------|-------------|---------------|---------------|
|                  | CCVIS 240-336990/4 | UXM12753.D  | 07/19/2018    | 09:43         |
|                  | LCS 240-336990/5   | UXM12754.D  | 07/19/2018    | 10:27         |
|                  | CCV 240-336990/6   | UXM12755.D  | 07/19/2018    | 10:51         |
|                  | MB 240-336990/9    | UXM12758.D  | 07/19/2018    | 12:02         |
| MSA-SW39B-070918 | 240-98276-10       | UXM12767.D  | 07/19/2018    | 15:57         |
| MSA-SW39C-070918 | 240-98276-11       | UXM12768.D  | 07/19/2018    | 16:21         |
| MSA-SW39D-070918 | 240-98276-12       | UXM12769.D  | 07/19/2018    | 16:45         |
| MSA-SW40A-070918 | 240-98276-13       | UXM12770.D  | 07/19/2018    | 17:10         |
| MSA-SW40B-070918 | 240-98276-14       | UXM12771.D  | 07/19/2018    | 17:34         |
| MSA-SW40C-070918 | 240-98276-15       | UXM12772.D  | 07/19/2018    | 18:19         |
| MSA-SW40D-070918 | 240-98276-16       | UXM12773.D  | 07/19/2018    | 18:43         |
| MSA-SW41A-070918 | 240-98276-17       | UXM12774.D  | 07/19/2018    | 19:07         |
| MSA-SW41B-070918 | 240-98276-18       | UXM12775.D  | 07/19/2018    | 19:31         |
| MSA-SW41C-070918 | 240-98276-19       | UXM12776.D  | 07/19/2018    | 19:54         |
| MSA-SW41D-070918 | 240-98276-20       | UXM12777.D  | 07/19/2018    | 20:18         |



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 240-336990/4 Calibration Date: 07/19/2018 09:43

Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58

Lab File ID: UXM12753.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D     | MAX<br>%D |
|---------------------------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| Dichlorodifluoromethane                     | Ave           | 0.3501  | 0.2885 | 0.1000  | 0.0165         | 0.0200          | -17.6  | 20.0      |
| Chloromethane                               | Ave           | 0.3416  | 0.3408 | 0.1000  | 0.0200         | 0.0200          | -0.2   | 20.0      |
| Vinyl chloride                              | Ave           | 0.3322  | 0.3736 | 0.1000  | 0.0225         | 0.0200          | 12.5   | 20.0      |
| Butadiene                                   | Ave           | 0.3124  | 0.3426 |         | 0.0219         | 0.0200          | 9.7    | 20.0      |
| Bromomethane                                | Ave           | 0.2151  | 0.2338 | 0.0500  | 0.0217         | 0.0200          | 8.7    | 20.0      |
| Chloroethane                                | Ave           | 0.2254  | 0.2425 | 0.0500  | 0.0215         | 0.0200          | 7.6    | 20.0      |
| Dichlorofluoromethane                       | Ave           | 0.4835  | 0.5161 |         | 0.0213         | 0.0200          | 6.7    | 20.0      |
| Trichlorofluoromethane                      | Ave           | 0.3823  | 0.3633 | 0.1000  | 0.0190         | 0.0200          | -5.0   | 20.0      |
| Ethyl ether                                 | Ave           | 0.2374  | 0.2657 |         | 0.0224         | 0.0200          | 11.9   | 20.0      |
| Acrolein                                    | Ave           | 0.0568  | 0.0685 |         | 0.120          | 0.100           | 20.5   | 50.0      |
| 1,1-Dichloroethene                          | Ave           | 0.2294  | 0.2708 | 0.1000  | 0.0236         | 0.0200          | 18.0   | 20.0      |
| 1,1,2-Trichloro-1,2,2-trichf<br>luoroethane | Ave           | 0.1581  | 0.1540 | 0.0500  | 0.0195         | 0.0200          | -2.6   | 20.0      |
| Acetone                                     | Ave           | 0.0313  | 0.0335 | 0.0100  | 0.0429         | 0.0400          | 7.2    | 50.0      |
| Iodomethane                                 | Ave           | 0.3694  | 0.4139 |         | 0.0224         | 0.0200          | 12.0   | 20.0      |
| Carbon disulfide                            | Ave           | 0.6001  | 0.6848 | 0.1000  | 0.0228         | 0.0200          | 14.1   | 20.0      |
| 3-Chloro-1-propene                          | Ave           | 0.4305  | 0.4786 |         | 0.0222         | 0.0200          | 11.2   | 20.0      |
| Methyl acetate                              | Ave           | 0.2509  | 0.2650 | 0.1000  | 0.0422         | 0.0400          | 5.6    | 20.0      |
| Methylene Chloride                          | Ave           | 0.2986  | 0.3188 | 0.1000  | 0.0213         | 0.0200          | 6.7    | 50.0      |
| tert-Butyl alcohol                          | Ave           | 0.0303  | 0.0332 |         | 0.219          | 0.200           | 9.4    | 50.0      |
| Acrylonitrile                               | Ave           | 0.1235  | 0.1375 |         | 0.223          | 0.200           | 11.3   | 20.0      |
| Methyl tert-butyl ether                     | Ave           | 0.9283  | 0.9578 | 0.1000  | 0.0206         | 0.0200          | 3.2    | 20.0      |
| trans-1,2-Dichloroethene                    | Ave           | 0.2866  | 0.3136 | 0.1000  | 0.0219         | 0.0200          | 9.4    | 20.0      |
| Hexane                                      | Lin1          |         | 0.2246 |         | 0.0193         | 0.0200          | -3.3   | 20.0      |
| 1,1-Dichloroethane                          | Ave           | 0.4918  | 0.5319 | 0.2000  | 0.0216         | 0.0200          | 8.2    | 20.0      |
| Vinyl acetate                               | Ave           | 0.4878  | 0.5816 |         | 0.0238         | 0.0200          | 19.2   | 50.0      |
| 2,2-Dichloropropane                         | Ave           | 0.0726  | 0.0773 |         | 0.0213         | 0.0200          | 6.5    | 20.0      |
| 2-Butanone                                  | Ave           | 0.0429  | 0.0446 | 0.0100  | 0.0416         | 0.0400          | 3.9    | 20.0      |
| cis-1,2-Dichloroethene                      | Ave           | 0.3171  | 0.3451 | 0.1000  | 0.0218         | 0.0200          | 8.8    | 20.0      |
| Bromochloromethane                          | Ave           | 0.1407  | 0.1517 |         | 0.0216         | 0.0200          | 7.9    | 20.0      |
| Tetrahydrofuran                             | Ave           | 0.1000  | 0.1008 |         | 0.0403         | 0.0400          | 0.8    | 20.0      |
| Chloroform                                  | Ave           | 0.4857  | 0.5090 | 0.2000  | 0.0210         | 0.0200          | 4.8    | 20.0      |
| 1,1,1-Trichloroethane                       | Ave           | 0.3857  | 0.4103 | 0.1000  | 0.0213         | 0.0200          | 6.4    | 20.0      |
| Cyclohexane                                 | Ave           | 0.3594  | 0.3689 | 0.1000  | 0.0205         | 0.0200          | 2.6    | 20.0      |
| 1,1-Dichloropropene                         | Ave           | 0.3933  | 0.4230 |         | 0.0215         | 0.0200          | 7.5    | 20.0      |
| Carbon tetrachloride                        | Ave           | 0.2981  | 0.3111 | 0.1000  | 0.0209         | 0.0200          | 4.4    | 20.0      |
| Isobutyl alcohol                            | Ave           | 0.0104  | 0.0103 |         | 0.495          | 0.500           | -1.0   | 20.0      |
| 1,2-Dichloroethane                          | Ave           | 0.4252  | 0.4339 | 0.1000  | 0.0204         | 0.0200          | 2.0    | 20.0      |
| Benzene                                     | Ave           | 1.187   | 1.305  | 0.5000  | 0.0220         | 0.0200          | 10.0   | 20.0      |
| n-Heptane                                   | Lin1          |         | 0.1261 |         | 0.0160         | 0.0200          | -20.2* | 20.0      |
| Trichloroethene                             | Ave           | 0.2987  | 0.3107 | 0.1500  | 0.0208         | 0.0200          | 4.0    | 20.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 240-336990/4 Calibration Date: 07/19/2018 09:43

Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58

Lab File ID: UXM12753.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                     | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|-----------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Methylcyclohexane           | Lin1       |         | 0.2945 | 0.1000  | 0.0190      | 0.0200       | -4.8  | 20.0   |
| 1,2-Dichloropropane         | Ave        | 0.2689  | 0.2998 | 0.1000  | 0.0223      | 0.0200       | 11.5  | 20.0   |
| 1,4-Dioxane                 | Lin1       |         | 0.0034 |         | 0.416       | 0.400        | 4.0   | 50.0   |
| Dibromomethane              | Ave        | 0.1703  | 0.1795 |         | 0.0211      | 0.0200       | 5.4   | 20.0   |
| Bromodichloromethane        | Ave        | 0.3586  | 0.3775 | 0.1500  | 0.0210      | 0.0200       | 5.2   | 20.0   |
| 2-Chloroethyl vinyl ether   | Ave        | 0.1861  | 0.1985 |         | 0.0427      | 0.0400       | 6.6   | 20.0   |
| cis-1,3-Dichloropropene     | Ave        | 0.4415  | 0.4705 | 0.1500  | 0.0213      | 0.0200       | 6.6   | 20.0   |
| 4-Methyl-2-pentanone        | Ave        | 0.2914  | 0.3080 | 0.0500  | 0.0423      | 0.0400       | 5.7   | 20.0   |
| Toluene                     | Ave        | 1.549   | 1.531  | 0.4000  | 0.0198      | 0.0200       | -1.1  | 20.0   |
| trans-1,3-Dichloropropene   | Ave        | 0.5083  | 0.4873 | 0.1000  | 0.0192      | 0.0200       | -4.1  | 20.0   |
| Ethyl methacrylate          | Ave        | 0.5086  | 0.5246 |         | 0.0206      | 0.0200       | 3.1   | 20.0   |
| 1,1,2-Trichloroethane       | Ave        | 0.3099  | 0.3071 | 0.1000  | 0.0198      | 0.0200       | -0.9  | 20.0   |
| Tetrachloroethene           | Ave        | 0.2346  | 0.2271 | 0.1500  | 0.0194      | 0.0200       | -3.2  | 20.0   |
| 1,3-Dichloropropane         | Ave        | 0.5752  | 0.5796 |         | 0.0202      | 0.0200       | 0.8   | 20.0   |
| 2-Hexanone                  | Ave        | 0.2507  | 0.2533 | 0.0500  | 0.0404      | 0.0400       | 1.0   | 20.0   |
| Dibromochloromethane        | Ave        | 0.2865  | 0.2806 |         | 0.0196      | 0.0200       | -2.1  | 20.0   |
| 1,2-Dibromoethane           | Ave        | 0.3152  | 0.3121 |         | 0.0198      | 0.0200       | -1.0  | 20.0   |
| Chlorobenzene               | Ave        | 0.9549  | 0.9259 | 0.3000  | 0.0194      | 0.0200       | -3.0  | 20.0   |
| 1,1,1,2-Tetrachloroethane   | Ave        | 0.3050  | 0.2939 |         | 0.0193      | 0.0200       | -3.7  | 20.0   |
| Ethylbenzene                | Ave        | 0.4876  | 0.4841 |         | 0.0199      | 0.0200       | -0.7  | 20.0   |
| m-Xylene & p-Xylene         | Ave        | 0.6035  | 0.5951 |         | 0.0197      | 0.0200       | -1.4  | 20.0   |
| o-Xylene                    | Ave        | 0.5966  | 0.5953 |         | 0.0200      | 0.0200       | -0.2  | 20.0   |
| Styrene                     | Ave        | 1.061   | 1.057  | 0.3000  | 0.0199      | 0.0200       | -0.4  | 20.0   |
| Bromoform                   | Ave        | 0.1813  | 0.1659 | 0.1000  | 0.0183      | 0.0200       | -8.5  | 20.0   |
| Isopropylbenzene            | Ave        | 1.354   | 1.286  | 0.1000  | 0.0190      | 0.0200       | -5.0  | 20.0   |
| 1,1,2,2-Tetrachloroethane   | Ave        | 0.8700  | 0.8589 | 0.3000  | 0.0197      | 0.0200       | -1.3  | 20.0   |
| Bromobenzene                | Ave        | 0.7395  | 0.6835 |         | 0.0185      | 0.0200       | -7.6  | 20.0   |
| 1,2,3-Trichloropropane      | Ave        | 0.2932  | 0.2780 |         | 0.0190      | 0.0200       | -5.2  | 20.0   |
| trans-1,4-Dichloro-2-butene | Ave        | 0.2756  | 0.2569 |         | 0.0186      | 0.0200       | -6.8  | 20.0   |
| n-Propylbenzene             | Ave        | 0.6900  | 0.6419 |         | 0.0186      | 0.0200       | -7.0  | 20.0   |
| 2-Chlorotoluene             | Ave        | 0.6689  | 0.6274 |         | 0.0188      | 0.0200       | -6.2  | 20.0   |
| 1,3,5-Trimethylbenzene      | Ave        | 2.135   | 1.984  |         | 0.0186      | 0.0200       | -7.0  | 20.0   |
| 4-Chlorotoluene             | Ave        | 0.7156  | 0.6693 |         | 0.0187      | 0.0200       | -6.5  | 20.0   |
| tert-Butylbenzene           | Ave        | 1.947   | 1.592  |         | 0.0164      | 0.0200       | -18.2 | 20.0   |
| 1,2,4-Trimethylbenzene      | Ave        | 2.318   | 2.125  |         | 0.0183      | 0.0200       | -8.4  | 20.0   |
| sec-Butylbenzene            | Ave        | 2.383   | 2.049  |         | 0.0172      | 0.0200       | -14.0 | 20.0   |
| 1,3-Dichlorobenzene         | Ave        | 1.294   | 1.172  | 0.6000  | 0.0181      | 0.0200       | -9.4  | 20.0   |
| p-Isopropyltoluene          | Ave        | 2.004   | 1.744  |         | 0.0174      | 0.0200       | -13.0 | 20.0   |
| 1,4-Dichlorobenzene         | Ave        | 1.327   | 1.213  | 0.5000  | 0.0183      | 0.0200       | -8.7  | 20.0   |
| n-Butylbenzene              | Ave        | 1.832   | 1.473  |         | 0.0161      | 0.0200       | -19.6 | 20.0   |
| 1,2-Dichlorobenzene         | Ave        | 1.258   | 1.168  | 0.4000  | 0.0186      | 0.0200       | -7.2  | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 240-336990/4 Calibration Date: 07/19/2018 09:43  
 Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58  
 Lab File ID: UXM12753.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D     | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| 1,2-Dibromo-3-Chloropropane  | Ave           | 0.1714  | 0.1533 | 0.0500  | 0.0179         | 0.0200          | -10.6  | 50.0      |
| 1,2,4-Trichlorobenzene       | Lin1          |         | 0.5086 | 0.2000  | 0.0177         | 0.0200          | -11.5  | 50.0      |
| Hexachlorobutadiene          | Ave           | 0.2716  | 0.1527 |         | 0.0112         | 0.0200          | -43.8* | 20.0      |
| Naphthalene                  | Ave           | 2.435   | 2.014  |         | 0.0165         | 0.0200          | -17.3  | 50.0      |
| 1,2,3-Trichlorobenzene       | Lin1          |         | 0.4584 |         | 0.0173         | 0.0200          | -13.3  | 20.0      |
| Dibromofluoromethane (Surr)  | Ave           | 0.2415  | 0.2297 |         | 0.0190         | 0.0200          | -4.9   | 20.0      |
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.3545  | 0.3207 |         | 0.0181         | 0.0200          | -9.5   | 20.0      |
| Toluene-d8 (Surr)            | Ave           | 1.301   | 1.171  |         | 0.0180         | 0.0200          | -10.0  | 20.0      |
| 4-Bromofluorobenzene (Surr)  | Ave           | 0.4608  | 0.4020 |         | 0.0174         | 0.0200          | -12.8  | 20.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 240-336990/6 Calibration Date: 07/19/2018 10:51  
 Instrument ID: A3UX16 Calib Start Date: 07/06/2018 23:04  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/07/2018 01:02  
 Lab File ID: UXM12755.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                          | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D     | MAX<br>%D |
|----------------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| Acetonitrile                     | Ave           | 0.0347  | 0.0421 |         | 0.243          | 0.200           | 21.4*  | 20.0      |
| Diisopropyl ether                | Ave           | 0.2695  | 0.2781 |         | 0.0206         | 0.0200          | 3.2    | 20.0      |
| 2-Chloro-1,3-butadiene           | Ave           | 0.4517  | 0.4564 |         | 0.0202         | 0.0200          | 1.0    | 20.0      |
| Ethyl-t-butyl ether (ETBE)       | Ave           | 0.9338  | 0.9387 |         | 0.0201         | 0.0200          | 0.5    | 20.0      |
| Ethyl acetate                    | Ave           | 0.2967  | 0.3143 |         | 0.0424         | 0.0400          | 5.9    | 50.0      |
| Propionitrile                    | Ave           | 0.0465  | 0.0523 |         | 0.225          | 0.200           | 12.4   | 20.0      |
| Methacrylonitrile                | Ave           | 0.2013  | 0.2160 |         | 0.215          | 0.200           | 7.3    | 20.0      |
| Tert-amyl-methyl ether<br>(TAME) | Ave           | 0.9402  | 0.9272 |         | 0.0197         | 0.0200          | -1.4   | 20.0      |
| n-Butanol                        | Ave           | 0.0086  | 0.0077 |         | 0.450          | 0.500           | -10.0  | 20.0      |
| Ethyl acrylate                   | Ave           | 0.3810  | 0.4156 |         | 0.0218         | 0.0200          | 9.1    | 20.0      |
| Methyl methacrylate              | Ave           | 0.2734  | 0.2987 |         | 0.0437         | 0.0400          | 9.3    | 20.0      |
| 2-Nitropropane                   | Ave           | 0.0827  | 0.0772 |         | 0.0373         | 0.0400          | -6.7   | 20.0      |
| n-Butyl acetate                  | Ave           | 0.4226  | 0.4588 |         | 0.0217         | 0.0200          | 8.6    | 20.0      |
| 1-Chlorohexane                   | Ave           | 0.3721  | 0.3157 |         | 0.0170         | 0.0200          | -15.2  | 20.0      |
| Cyclohexanone                    | Ave           | 0.0291  | 0.0289 |         | 0.198          | 0.200           | -1.0   | 20.0      |
| Pentachloroethane                | Ave           | 0.1440  | 0.1490 |         | 0.0414         | 0.0400          | 3.4    | 20.0      |
| 1,2,3-Trimethylbenzene           | Ave           | 2.420   | 2.109  |         | 0.0174         | 0.0200          | -12.8  | 20.0      |
| Benzyl chloride                  | Lin1          |         | 0.2599 |         | 0.0149         | 0.0200          | -25.5* | 20.0      |
| 1,3,5-Trichlorobenzene           | Ave           | 0.7094  | 0.5013 |         | 0.0141         | 0.0200          | -29.3* | 20.0      |
| 2-Methylnaphthalene              | Lin1          |         | 0.5639 |         | 0.0243         | 0.0400          | -39.3* | 20.0      |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Lab File ID: BFB5694.D BFB Injection Date: 07/20/2018  
Instrument ID: A3UX16 BFB Injection Time: 10:39  
Analysis Batch No.: 337214

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 19.2                 |
| 75  | 30.0 - 60.0 % of mass 95           | 50.2                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.4                  |
| 173 | Less than 2.0 % of mass 174        | 0.4 (0.6) 1          |
| 174 | 50.0 - 120.00 % of mass 95         | 72.2                 |
| 175 | 5.0 - 9.0 % of mass 174            | 4.9 (6.8) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 70.2 (97.2) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 4.6 (6.6) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
|                  | CCVIS 240-337214/4 | UXM12784.D  | 07/20/2018    | 11:07         |
|                  | LCS 240-337214/5   | UXM12785.D  | 07/20/2018    | 11:31         |
|                  | CCV 240-337214/6   | UXM12786.D  | 07/20/2018    | 11:55         |
|                  | MB 240-337214/9    | UXM12789.D  | 07/20/2018    | 13:07         |
| MSA-SW42A-070918 | 240-98276-21       | UXM12794.D  | 07/20/2018    | 15:07         |
| MSA-SW42B-070918 | 240-98276-22       | UXM12795.D  | 07/20/2018    | 15:31         |
| MSA-SW42C-070918 | 240-98276-23       | UXM12796.D  | 07/20/2018    | 15:55         |
| MSA-SW42D-070918 | 240-98276-24       | UXM12797.D  | 07/20/2018    | 16:19         |
| MSA-SW43A-070918 | 240-98276-25       | UXM12798.D  | 07/20/2018    | 16:42         |
| MSA-SW43B-070918 | 240-98276-26       | UXM12799.D  | 07/20/2018    | 17:06         |
| MSA-SW43C-070918 | 240-98276-27       | UXM12800.D  | 07/20/2018    | 17:30         |
| MSA-SW43D-070918 | 240-98276-28       | UXM12801.D  | 07/20/2018    | 17:54         |
| MSA-SW44A-070918 | 240-98276-29       | UXM12802.D  | 07/20/2018    | 18:18         |
| MSA-SW44B-070918 | 240-98276-30       | UXM12803.D  | 07/20/2018    | 18:41         |
| MSA-SW44C-070918 | 240-98276-31       | UXM12804.D  | 07/20/2018    | 19:05         |
| MSA-SW44D-070918 | 240-98276-32       | UXM12805.D  | 07/20/2018    | 19:29         |
| MSA-SW45A-070918 | 240-98276-33       | UXM12806.D  | 07/20/2018    | 19:52         |
| MSA-SW45B-070918 | 240-98276-34       | UXM12807.D  | 07/20/2018    | 20:16         |
| MSA-SW45C-070918 | 240-98276-35       | UXM12808.D  | 07/20/2018    | 20:39         |
| MSA-SW45D-070918 | 240-98276-36       | UXM12809.D  | 07/20/2018    | 21:03         |
| EL-SW01A-070918  | 240-98276-37       | UXM12810.D  | 07/20/2018    | 21:27         |
| EL-SW01B-070918  | 240-98276-38       | UXM12811.D  | 07/20/2018    | 21:51         |
| EL-SW01C-070918  | 240-98276-39       | UXM12812.D  | 07/20/2018    | 22:15         |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 240-337214/4 Calibration Date: 07/20/2018 11:07

Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58

Lab File ID: UXM12784.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                                  | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|------------------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Dichlorodifluoromethane                  | Ave        | 0.3501  | 0.3207 | 0.1000  | 0.0183      | 0.0200       | -8.4  | 20.0   |
| Chloromethane                            | Ave        | 0.3416  | 0.3464 | 0.1000  | 0.0203      | 0.0200       | 1.4   | 20.0   |
| Vinyl chloride                           | Ave        | 0.3322  | 0.3833 | 0.1000  | 0.0231      | 0.0200       | 15.4  | 20.0   |
| Butadiene                                | Ave        | 0.3124  | 0.3456 |         | 0.0221      | 0.0200       | 10.6  | 20.0   |
| Bromomethane                             | Ave        | 0.2151  | 0.2405 | 0.0500  | 0.0224      | 0.0200       | 11.8  | 20.0   |
| Chloroethane                             | Ave        | 0.2254  | 0.2474 | 0.0500  | 0.0220      | 0.0200       | 9.8   | 20.0   |
| Dichlorofluoromethane                    | Ave        | 0.4835  | 0.5267 |         | 0.0218      | 0.0200       | 8.9   | 20.0   |
| Trichlorofluoromethane                   | Ave        | 0.3823  | 0.3879 | 0.1000  | 0.0203      | 0.0200       | 1.5   | 20.0   |
| Ethyl ether                              | Ave        | 0.2374  | 0.3009 |         | 0.0254      | 0.0200       | 26.8* | 20.0   |
| Acrolein                                 | Ave        | 0.0568  | 0.0756 |         | 0.133       | 0.100        | 33.0  | 50.0   |
| 1,1-Dichloroethene                       | Ave        | 0.2294  | 0.2851 | 0.1000  | 0.0249      | 0.0200       | 24.3* | 20.0   |
| Acetone                                  | Ave        | 0.0313  | 0.0380 | 0.0100  | 0.0487      | 0.0400       | 21.6  | 50.0   |
| 1,1,2-Trichloro-1,2,2-trichf luoroethane | Ave        | 0.1581  | 0.1834 | 0.0500  | 0.0232      | 0.0200       | 16.0  | 20.0   |
| Iodomethane                              | Ave        | 0.3694  | 0.4437 |         | 0.0240      | 0.0200       | 20.1* | 20.0   |
| Carbon disulfide                         | Ave        | 0.6001  | 0.6871 | 0.1000  | 0.0229      | 0.0200       | 14.5  | 20.0   |
| 3-Chloro-1-propene                       | Ave        | 0.4305  | 0.5391 |         | 0.0250      | 0.0200       | 25.2* | 20.0   |
| Methyl acetate                           | Ave        | 0.2509  | 0.3106 | 0.1000  | 0.0495      | 0.0400       | 23.8* | 20.0   |
| Methylene Chloride                       | Ave        | 0.2986  | 0.3377 | 0.1000  | 0.0226      | 0.0200       | 13.1  | 50.0   |
| tert-Butyl alcohol                       | Ave        | 0.0303  | 0.0380 |         | 0.250       | 0.200        | 25.2  | 50.0   |
| Acrylonitrile                            | Ave        | 0.1235  | 0.1553 |         | 0.251       | 0.200        | 25.7* | 20.0   |
| Methyl tert-butyl ether                  | Ave        | 0.9283  | 1.048  | 0.1000  | 0.0226      | 0.0200       | 12.9  | 20.0   |
| trans-1,2-Dichloroethene                 | Ave        | 0.2866  | 0.3389 | 0.1000  | 0.0236      | 0.0200       | 18.2  | 20.0   |
| Hexane                                   | Lin1       |         | 0.2581 |         | 0.0223      | 0.0200       | 11.5  | 20.0   |
| 1,1-Dichloroethane                       | Ave        | 0.4918  | 0.5763 | 0.2000  | 0.0234      | 0.0200       | 17.2  | 20.0   |
| Vinyl acetate                            | Ave        | 0.4878  | 0.6006 |         | 0.0246      | 0.0200       | 23.1  | 50.0   |
| 2,2-Dichloropropane                      | Ave        | 0.0726  | 0.0809 |         | 0.0223      | 0.0200       | 11.4  | 20.0   |
| cis-1,2-Dichloroethene                   | Ave        | 0.3171  | 0.3762 | 0.1000  | 0.0237      | 0.0200       | 18.6  | 20.0   |
| 2-Butanone                               | Ave        | 0.0429  | 0.0509 | 0.0100  | 0.0475      | 0.0400       | 18.7  | 20.0   |
| Bromochloromethane                       | Ave        | 0.1407  | 0.1631 |         | 0.0232      | 0.0200       | 15.9  | 20.0   |
| Tetrahydrofuran                          | Ave        | 0.1000  | 0.1156 |         | 0.0462      | 0.0400       | 15.5  | 20.0   |
| Chloroform                               | Ave        | 0.4857  | 0.5574 | 0.2000  | 0.0230      | 0.0200       | 14.8  | 20.0   |
| 1,1,1-Trichloroethane                    | Ave        | 0.3857  | 0.4335 | 0.1000  | 0.0225      | 0.0200       | 12.4  | 20.0   |
| Cyclohexane                              | Ave        | 0.3594  | 0.4275 | 0.1000  | 0.0238      | 0.0200       | 18.9  | 20.0   |
| 1,1-Dichloropropene                      | Ave        | 0.3933  | 0.4590 |         | 0.0233      | 0.0200       | 16.7  | 20.0   |
| Carbon tetrachloride                     | Ave        | 0.2981  | 0.3330 | 0.1000  | 0.0223      | 0.0200       | 11.7  | 20.0   |
| Isobutyl alcohol                         | Ave        | 0.0104  | 0.0121 |         | 0.580       | 0.500        | 15.9  | 20.0   |
| 1,2-Dichloroethane                       | Ave        | 0.4252  | 0.4681 | 0.1000  | 0.0220      | 0.0200       | 10.1  | 20.0   |
| Benzene                                  | Ave        | 1.187   | 1.415  | 0.5000  | 0.0238      | 0.0200       | 19.2  | 20.0   |
| n-Heptane                                | Lin1       |         | 0.1455 |         | 0.0198      | 0.0200       | -1.2  | 20.0   |
| Trichloroethene                          | Ave        | 0.2987  | 0.3327 | 0.1500  | 0.0223      | 0.0200       | 11.4  | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 240-337214/4 Calibration Date: 07/20/2018 11:07

Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58

Lab File ID: UXM12784.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                     | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|-----------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Methylcyclohexane           | Lin1       |         | 0.3335 | 0.1000  | 0.0216      | 0.0200       | 8.2   | 20.0   |
| 1,2-Dichloropropane         | Ave        | 0.2689  | 0.3199 | 0.1000  | 0.0238      | 0.0200       | 19.0  | 20.0   |
| 1,4-Dioxane                 | Lin1       |         | 0.0035 |         | 0.429       | 0.400        | 7.2   | 50.0   |
| Dibromomethane              | Ave        | 0.1703  | 0.1967 |         | 0.0231      | 0.0200       | 15.5  | 20.0   |
| Bromodichloromethane        | Ave        | 0.3586  | 0.4098 | 0.1500  | 0.0229      | 0.0200       | 14.3  | 20.0   |
| 2-Chloroethyl vinyl ether   | Ave        | 0.1861  | 0.2151 |         | 0.0462      | 0.0400       | 15.5  | 20.0   |
| cis-1,3-Dichloropropene     | Ave        | 0.4415  | 0.5176 | 0.1500  | 0.0234      | 0.0200       | 17.2  | 20.0   |
| 4-Methyl-2-pentanone        | Ave        | 0.2914  | 0.3580 | 0.0500  | 0.0491      | 0.0400       | 22.9* | 20.0   |
| Toluene                     | Ave        | 1.549   | 1.625  | 0.4000  | 0.0210      | 0.0200       | 4.9   | 20.0   |
| trans-1,3-Dichloropropene   | Ave        | 0.5083  | 0.5223 | 0.1000  | 0.0206      | 0.0200       | 2.8   | 20.0   |
| Ethyl methacrylate          | Ave        | 0.5086  | 0.5710 |         | 0.0225      | 0.0200       | 12.3  | 20.0   |
| 1,1,2-Trichloroethane       | Ave        | 0.3099  | 0.3346 | 0.1000  | 0.0216      | 0.0200       | 8.0   | 20.0   |
| Tetrachloroethene           | Ave        | 0.2346  | 0.2316 | 0.1500  | 0.0197      | 0.0200       | -1.3  | 20.0   |
| 1,3-Dichloropropane         | Ave        | 0.5752  | 0.6236 |         | 0.0217      | 0.0200       | 8.4   | 20.0   |
| 2-Hexanone                  | Ave        | 0.2507  | 0.2898 | 0.0500  | 0.0462      | 0.0400       | 15.6  | 20.0   |
| Dibromochloromethane        | Ave        | 0.2865  | 0.3000 |         | 0.0209      | 0.0200       | 4.7   | 20.0   |
| 1,2-Dibromoethane           | Ave        | 0.3152  | 0.3364 |         | 0.0213      | 0.0200       | 6.7   | 20.0   |
| Chlorobenzene               | Ave        | 0.9549  | 0.996  | 0.3000  | 0.0209      | 0.0200       | 4.3   | 20.0   |
| 1,1,1,2-Tetrachloroethane   | Ave        | 0.3050  | 0.3116 |         | 0.0204      | 0.0200       | 2.1   | 20.0   |
| Ethylbenzene                | Ave        | 0.4876  | 0.5243 |         | 0.0215      | 0.0200       | 7.5   | 20.0   |
| m-Xylene & p-Xylene         | Ave        | 0.6035  | 0.6383 |         | 0.0212      | 0.0200       | 5.8   | 20.0   |
| o-Xylene                    | Ave        | 0.5966  | 0.6367 |         | 0.0213      | 0.0200       | 6.7   | 20.0   |
| Styrene                     | Ave        | 1.061   | 1.144  | 0.3000  | 0.0216      | 0.0200       | 7.8   | 20.0   |
| Bromoform                   | Ave        | 0.1813  | 0.1777 | 0.1000  | 0.0196      | 0.0200       | -2.0  | 20.0   |
| Isopropylbenzene            | Ave        | 1.354   | 1.402  | 0.1000  | 0.0207      | 0.0200       | 3.5   | 20.0   |
| 1,1,2,2-Tetrachloroethane   | Ave        | 0.8700  | 0.9358 | 0.3000  | 0.0215      | 0.0200       | 7.6   | 20.0   |
| Bromobenzene                | Ave        | 0.7395  | 0.7252 |         | 0.0196      | 0.0200       | -1.9  | 20.0   |
| 1,2,3-Trichloropropane      | Ave        | 0.2932  | 0.2997 |         | 0.0204      | 0.0200       | 2.2   | 20.0   |
| trans-1,4-Dichloro-2-butene | Ave        | 0.2756  | 0.2851 |         | 0.0207      | 0.0200       | 3.5   | 20.0   |
| n-Propylbenzene             | Ave        | 0.6900  | 0.6909 |         | 0.0200      | 0.0200       | 0.1   | 20.0   |
| 2-Chlorotoluene             | Ave        | 0.6689  | 0.6679 |         | 0.0200      | 0.0200       | -0.1  | 20.0   |
| 1,3,5-Trimethylbenzene      | Ave        | 2.135   | 2.144  |         | 0.0201      | 0.0200       | 0.4   | 20.0   |
| 4-Chlorotoluene             | Ave        | 0.7156  | 0.7014 |         | 0.0196      | 0.0200       | -2.0  | 20.0   |
| tert-Butylbenzene           | Ave        | 1.947   | 1.693  |         | 0.0174      | 0.0200       | -13.0 | 20.0   |
| 1,2,4-Trimethylbenzene      | Ave        | 2.318   | 2.247  |         | 0.0194      | 0.0200       | -3.1  | 20.0   |
| sec-Butylbenzene            | Ave        | 2.383   | 2.202  |         | 0.0185      | 0.0200       | -7.6  | 20.0   |
| 1,3-Dichlorobenzene         | Ave        | 1.294   | 1.236  | 0.6000  | 0.0191      | 0.0200       | -4.5  | 20.0   |
| p-Isopropyltoluene          | Ave        | 2.004   | 1.868  |         | 0.0186      | 0.0200       | -6.8  | 20.0   |
| 1,4-Dichlorobenzene         | Ave        | 1.327   | 1.278  | 0.5000  | 0.0193      | 0.0200       | -3.7  | 20.0   |
| n-Butylbenzene              | Ave        | 1.832   | 1.563  |         | 0.0171      | 0.0200       | -14.7 | 20.0   |
| 1,2-Dichlorobenzene         | Ave        | 1.258   | 1.246  | 0.4000  | 0.0198      | 0.0200       | -1.0  | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 240-337214/4 Calibration Date: 07/20/2018 11:07  
 Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58  
 Lab File ID: UXM12784.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D     | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| 1,2-Dibromo-3-Chloropropane  | Ave           | 0.1714  | 0.1696 | 0.0500  | 0.0198         | 0.0200          | -1.1   | 50.0      |
| 1,2,4-Trichlorobenzene       | Lin1          |         | 0.5393 | 0.2000  | 0.0188         | 0.0200          | -6.0   | 50.0      |
| Hexachlorobutadiene          | Ave           | 0.2716  | 0.1674 |         | 0.0123         | 0.0200          | -38.4* | 20.0      |
| Naphthalene                  | Ave           | 2.435   | 2.159  |         | 0.0177         | 0.0200          | -11.3  | 50.0      |
| 1,2,3-Trichlorobenzene       | Lin1          |         | 0.4903 |         | 0.0186         | 0.0200          | -7.2   | 20.0      |
| Dibromofluoromethane (Surr)  | Ave           | 0.2415  | 0.2359 |         | 0.0195         | 0.0200          | -2.3   | 20.0      |
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.3545  | 0.3464 |         | 0.0195         | 0.0200          | -2.3   | 20.0      |
| Toluene-d8 (Surr)            | Ave           | 1.301   | 1.206  |         | 0.0185         | 0.0200          | -7.3   | 20.0      |
| 4-Bromofluorobenzene (Surr)  | Ave           | 0.4608  | 0.4178 |         | 0.0181         | 0.0200          | -9.3   | 20.0      |



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 240-337214/6 Calibration Date: 07/20/2018 11:55  
 Instrument ID: A3UX16 Calib Start Date: 07/06/2018 23:04  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/07/2018 01:02  
 Lab File ID: UXM12786.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                          | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D     | MAX<br>%D |
|----------------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| Acetonitrile                     | Ave           | 0.0347  | 0.0436 |         | 0.251          | 0.200           | 25.7*  | 20.0      |
| Diisopropyl ether                | Ave           | 0.2695  | 0.2844 |         | 0.0211         | 0.0200          | 5.5    | 20.0      |
| 2-Chloro-1,3-butadiene           | Ave           | 0.4517  | 0.4843 |         | 0.0214         | 0.0200          | 7.2    | 20.0      |
| Ethyl-t-butyl ether (ETBE)       | Ave           | 0.9338  | 0.9465 |         | 0.0203         | 0.0200          | 1.4    | 20.0      |
| Ethyl acetate                    | Ave           | 0.2967  | 0.3233 |         | 0.0436         | 0.0400          | 9.0    | 50.0      |
| Propionitrile                    | Ave           | 0.0465  | 0.0531 |         | 0.229          | 0.200           | 14.3   | 20.0      |
| Methacrylonitrile                | Ave           | 0.2013  | 0.2182 |         | 0.217          | 0.200           | 8.4    | 20.0      |
| Tert-amyl-methyl ether<br>(TAME) | Ave           | 0.9402  | 0.9199 |         | 0.0196         | 0.0200          | -2.2   | 20.0      |
| n-Butanol                        | Ave           | 0.0086  | 0.0090 |         | 0.525          | 0.500           | 5.0    | 20.0      |
| Ethyl acrylate                   | Ave           | 0.3810  | 0.4372 |         | 0.0230         | 0.0200          | 14.8   | 20.0      |
| Methyl methacrylate              | Ave           | 0.2734  | 0.3018 |         | 0.0442         | 0.0400          | 10.4   | 20.0      |
| 2-Nitropropane                   | Ave           | 0.0827  | 0.0752 |         | 0.0363         | 0.0400          | -9.2   | 20.0      |
| n-Butyl acetate                  | Ave           | 0.4226  | 0.4810 |         | 0.0228         | 0.0200          | 13.8   | 20.0      |
| 1-Chlorohexane                   | Ave           | 0.3721  | 0.3343 |         | 0.0180         | 0.0200          | -10.2  | 20.0      |
| Cyclohexanone                    | Ave           | 0.0291  | 0.0314 |         | 0.215          | 0.200           | 7.6    | 20.0      |
| Pentachloroethane                | Ave           | 0.1440  | 0.1394 |         | 0.0387         | 0.0400          | -3.2   | 20.0      |
| 1,2,3-Trimethylbenzene           | Ave           | 2.420   | 2.115  |         | 0.0175         | 0.0200          | -12.6  | 20.0      |
| Benzyl chloride                  | Lin1          |         | 0.2451 |         | 0.0141         | 0.0200          | -29.7* | 20.0      |
| 1,3,5-Trichlorobenzene           | Ave           | 0.7094  | 0.5161 |         | 0.0146         | 0.0200          | -27.2* | 20.0      |
| 2-Methylnaphthalene              | Lin1          |         | 0.5916 |         | 0.0256         | 0.0400          | -36.0* | 20.0      |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Lab File ID: BFB5695.D BFB Injection Date: 07/23/2018  
Instrument ID: A3UX16 BFB Injection Time: 09:02  
Analysis Batch No.: 337453

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 18.9                 |
| 75  | 30.0 - 60.0 % of mass 95           | 49.1                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.5                  |
| 173 | Less than 2.0 % of mass 174        | 0.6 (0.9) 1          |
| 174 | 50.0 - 120.00 % of mass 95         | 73.4                 |
| 175 | 5.0 - 9.0 % of mass 174            | 5.0 (6.9) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 71.7 (97.7) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 4.7 (6.5) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
|                  | CCVIS 240-337453/4 | UXM12817.D  | 07/23/2018    | 09:29         |
|                  | LCS 240-337453/5   | UXM12818.D  | 07/23/2018    | 10:03         |
|                  | CCV 240-337453/6   | UXM12819.D  | 07/23/2018    | 10:27         |
|                  | MB 240-337453/9    | UXM12822.D  | 07/23/2018    | 11:39         |
| EL-SW01D-070918  | 240-98276-40       | UXM12823.D  | 07/23/2018    | 12:15         |
| TB-070918        | 240-98276-41       | UXM12824.D  | 07/23/2018    | 12:39         |
| MSA-SW46A-070918 | 240-98276-42       | UXM12825.D  | 07/23/2018    | 13:03         |
| MSA-SW47A-070918 | 240-98276-43       | UXM12826.D  | 07/23/2018    | 13:27         |
| MSA-SW48A-070918 | 240-98276-44       | UXM12827.D  | 07/23/2018    | 13:51         |
| MSA-SW49A-070918 | 240-98276-45       | UXM12828.D  | 07/23/2018    | 14:15         |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 240-337453/4 Calibration Date: 07/23/2018 09:29

Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58

Lab File ID: UXM12817.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                                     | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|---------------------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Dichlorodifluoromethane                     | Ave        | 0.3501  | 0.3482 | 0.1000  | 0.0199      | 0.0200       | -0.5  | 20.0   |
| Chloromethane                               | Ave        | 0.3416  | 0.3850 | 0.1000  | 0.0225      | 0.0200       | 12.7  | 20.0   |
| Vinyl chloride                              | Ave        | 0.3322  | 0.4173 | 0.1000  | 0.0251      | 0.0200       | 25.6* | 20.0   |
| Butadiene                                   | Ave        | 0.3124  | 0.4049 |         | 0.0259      | 0.0200       | 29.6* | 20.0   |
| Bromomethane                                | Ave        | 0.2151  | 0.2563 | 0.0500  | 0.0238      | 0.0200       | 19.1  | 20.0   |
| Chloroethane                                | Ave        | 0.2254  | 0.2678 | 0.0500  | 0.0238      | 0.0200       | 18.8  | 20.0   |
| Dichlorofluoromethane                       | Ave        | 0.4835  | 0.5581 |         | 0.0231      | 0.0200       | 15.4  | 20.0   |
| Trichlorofluoromethane                      | Ave        | 0.3823  | 0.4069 | 0.1000  | 0.0213      | 0.0200       | 6.4   | 20.0   |
| Ethyl ether                                 | Ave        | 0.2374  | 0.2884 |         | 0.0243      | 0.0200       | 21.5* | 20.0   |
| Acrolein                                    | Ave        | 0.0568  | 0.0733 |         | 0.129       | 0.100        | 29.0  | 50.0   |
| 1,1-Dichloroethene                          | Ave        | 0.2294  | 0.2798 | 0.1000  | 0.0244      | 0.0200       | 21.9* | 20.0   |
| 1,1,2-Trichloro-1,2,2-trichf<br>luoroethane | Ave        | 0.1581  | 0.1772 | 0.0500  | 0.0224      | 0.0200       | 12.1  | 20.0   |
| Acetone                                     | Ave        | 0.0313  | 0.0347 | 0.0100  | 0.0444      | 0.0400       | 11.0  | 50.0   |
| Iodomethane                                 | Ave        | 0.3694  | 0.4335 |         | 0.0235      | 0.0200       | 17.3  | 20.0   |
| Carbon disulfide                            | Ave        | 0.6001  | 0.8721 | 0.1000  | 0.0291      | 0.0200       | 45.3* | 20.0   |
| 3-Chloro-1-propene                          | Ave        | 0.4305  | 0.5232 |         | 0.0243      | 0.0200       | 21.6* | 20.0   |
| Methyl acetate                              | Ave        | 0.2509  | 0.2974 | 0.1000  | 0.0474      | 0.0400       | 18.5  | 20.0   |
| Methylene Chloride                          | Ave        | 0.2986  | 0.3312 | 0.1000  | 0.0222      | 0.0200       | 10.9  | 50.0   |
| tert-Butyl alcohol                          | Ave        | 0.0303  | 0.0286 |         | 0.188       | 0.200        | -5.8  | 50.0   |
| Acrylonitrile                               | Ave        | 0.1235  | 0.1503 |         | 0.243       | 0.200        | 21.6* | 20.0   |
| trans-1,2-Dichloroethene                    | Ave        | 0.2866  | 0.3366 | 0.1000  | 0.0235      | 0.0200       | 17.4  | 20.0   |
| Methyl tert-butyl ether                     | Ave        | 0.9283  | 1.023  | 0.1000  | 0.0220      | 0.0200       | 10.2  | 20.0   |
| Hexane                                      | Lin1       |         | 0.2540 |         | 0.0219      | 0.0200       | 9.6   | 20.0   |
| 1,1-Dichloroethane                          | Ave        | 0.4918  | 0.5702 | 0.2000  | 0.0232      | 0.0200       | 15.9  | 20.0   |
| Vinyl acetate                               | Ave        | 0.4878  | 0.5636 |         | 0.0231      | 0.0200       | 15.5  | 50.0   |
| cis-1,2-Dichloroethene                      | Ave        | 0.3171  | 0.3710 | 0.1000  | 0.0234      | 0.0200       | 17.0  | 20.0   |
| 2,2-Dichloropropane                         | Ave        | 0.0726  | 0.0878 |         | 0.0242      | 0.0200       | 21.0* | 20.0   |
| 2-Butanone                                  | Ave        | 0.0429  | 0.0427 | 0.0100  | 0.0398      | 0.0400       | -0.4  | 20.0   |
| Bromochloromethane                          | Ave        | 0.1407  | 0.1561 |         | 0.0222      | 0.0200       | 11.0  | 20.0   |
| Tetrahydrofuran                             | Ave        | 0.1000  | 0.1039 |         | 0.0416      | 0.0400       | 3.9   | 20.0   |
| Chloroform                                  | Ave        | 0.4857  | 0.5369 | 0.2000  | 0.0221      | 0.0200       | 10.5  | 20.0   |
| 1,1,1-Trichloroethane                       | Ave        | 0.3857  | 0.4138 | 0.1000  | 0.0215      | 0.0200       | 7.3   | 20.0   |
| Cyclohexane                                 | Ave        | 0.3594  | 0.4275 | 0.1000  | 0.0238      | 0.0200       | 18.9  | 20.0   |
| 1,1-Dichloropropene                         | Ave        | 0.3933  | 0.4306 |         | 0.0219      | 0.0200       | 9.5   | 20.0   |
| Carbon tetrachloride                        | Ave        | 0.2981  | 0.3137 | 0.1000  | 0.0211      | 0.0200       | 5.3   | 20.0   |
| Isobutyl alcohol                            | Ave        | 0.0104  | 0.0097 |         | 0.466       | 0.500        | -6.7  | 20.0   |
| 1,2-Dichloroethane                          | Ave        | 0.4252  | 0.4337 | 0.1000  | 0.0204      | 0.0200       | 2.0   | 20.0   |
| Benzene                                     | Ave        | 1.187   | 1.326  | 0.5000  | 0.0223      | 0.0200       | 11.7  | 20.0   |
| n-Heptane                                   | Lin1       |         | 0.1352 |         | 0.0178      | 0.0200       | -11.2 | 20.0   |
| Trichloroethene                             | Ave        | 0.2987  | 0.3061 | 0.1500  | 0.0205      | 0.0200       | 2.5   | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 240-337453/4 Calibration Date: 07/23/2018 09:29

Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58

Lab File ID: UXM12817.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                     | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D     | MAX %D |
|-----------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Methylcyclohexane           | Lin1       |         | 0.3225 | 0.1000  | 0.0209      | 0.0200       | 4.5    | 20.0   |
| 1,2-Dichloropropane         | Ave        | 0.2689  | 0.2963 | 0.1000  | 0.0220      | 0.0200       | 10.2   | 20.0   |
| 1,4-Dioxane                 | Lin1       |         | 0.0033 |         | 0.402       | 0.400        | 0.4    | 50.0   |
| Dibromomethane              | Ave        | 0.1703  | 0.1838 |         | 0.0216      | 0.0200       | 7.9    | 20.0   |
| Bromodichloromethane        | Ave        | 0.3586  | 0.3730 | 0.1500  | 0.0208      | 0.0200       | 4.0    | 20.0   |
| 2-Chloroethyl vinyl ether   | Ave        | 0.1861  | 0.1811 |         | 0.0389      | 0.0400       | -2.7   | 20.0   |
| cis-1,3-Dichloropropene     | Ave        | 0.4415  | 0.4532 | 0.1500  | 0.0205      | 0.0200       | 2.6    | 20.0   |
| 4-Methyl-2-pentanone        | Ave        | 0.2914  | 0.3101 | 0.0500  | 0.0426      | 0.0400       | 6.4    | 20.0   |
| Toluene                     | Ave        | 1.549   | 1.518  | 0.4000  | 0.0196      | 0.0200       | -2.0   | 20.0   |
| trans-1,3-Dichloropropene   | Ave        | 0.5083  | 0.4736 | 0.1000  | 0.0186      | 0.0200       | -6.8   | 20.0   |
| Ethyl methacrylate          | Ave        | 0.5086  | 0.5012 |         | 0.0197      | 0.0200       | -1.5   | 20.0   |
| 1,1,2-Trichloroethane       | Ave        | 0.3099  | 0.3036 | 0.1000  | 0.0196      | 0.0200       | -2.0   | 20.0   |
| Tetrachloroethene           | Ave        | 0.2346  | 0.2199 | 0.1500  | 0.0187      | 0.0200       | -6.3   | 20.0   |
| 1,3-Dichloropropane         | Ave        | 0.5752  | 0.5543 |         | 0.0193      | 0.0200       | -3.6   | 20.0   |
| 2-Hexanone                  | Ave        | 0.2507  | 0.2504 | 0.0500  | 0.0399      | 0.0400       | -0.1   | 20.0   |
| Dibromochloromethane        | Ave        | 0.2865  | 0.2816 |         | 0.0197      | 0.0200       | -1.7   | 20.0   |
| 1,2-Dibromoethane           | Ave        | 0.3152  | 0.3012 |         | 0.0191      | 0.0200       | -4.5   | 20.0   |
| Chlorobenzene               | Ave        | 0.9549  | 0.8974 | 0.3000  | 0.0188      | 0.0200       | -6.0   | 20.0   |
| 1,1,1,2-Tetrachloroethane   | Ave        | 0.3050  | 0.3087 |         | 0.0202      | 0.0200       | 1.2    | 20.0   |
| Ethylbenzene                | Ave        | 0.4876  | 0.4729 |         | 0.0194      | 0.0200       | -3.0   | 20.0   |
| m-Xylene & p-Xylene         | Ave        | 0.6035  | 0.5860 |         | 0.0194      | 0.0200       | -2.9   | 20.0   |
| o-Xylene                    | Ave        | 0.5966  | 0.5989 |         | 0.0201      | 0.0200       | 0.4    | 20.0   |
| Styrene                     | Ave        | 1.061   | 1.025  | 0.3000  | 0.0193      | 0.0200       | -3.4   | 20.0   |
| Bromoform                   | Ave        | 0.1813  | 0.1677 | 0.1000  | 0.0185      | 0.0200       | -7.5   | 20.0   |
| Isopropylbenzene            | Ave        | 1.354   | 1.290  | 0.1000  | 0.0191      | 0.0200       | -4.7   | 20.0   |
| 1,1,2,2-Tetrachloroethane   | Ave        | 0.8700  | 0.8567 | 0.3000  | 0.0197      | 0.0200       | -1.5   | 20.0   |
| Bromobenzene                | Ave        | 0.7395  | 0.6401 |         | 0.0173      | 0.0200       | -13.4  | 20.0   |
| 1,2,3-Trichloropropane      | Ave        | 0.2932  | 0.2716 |         | 0.0185      | 0.0200       | -7.4   | 20.0   |
| trans-1,4-Dichloro-2-butene | Ave        | 0.2756  | 0.2413 |         | 0.0175      | 0.0200       | -12.4  | 20.0   |
| n-Propylbenzene             | Ave        | 0.6900  | 0.6047 |         | 0.0175      | 0.0200       | -12.4  | 20.0   |
| 2-Chlorotoluene             | Ave        | 0.6689  | 0.5957 |         | 0.0178      | 0.0200       | -10.9  | 20.0   |
| 1,3,5-Trimethylbenzene      | Ave        | 2.135   | 1.882  |         | 0.0176      | 0.0200       | -11.8  | 20.0   |
| 4-Chlorotoluene             | Ave        | 0.7156  | 0.6310 |         | 0.0176      | 0.0200       | -11.8  | 20.0   |
| tert-Butylbenzene           | Ave        | 1.947   | 1.500  |         | 0.0154      | 0.0200       | -23.0* | 20.0   |
| 1,2,4-Trimethylbenzene      | Ave        | 2.318   | 1.999  |         | 0.0172      | 0.0200       | -13.8  | 20.0   |
| sec-Butylbenzene            | Ave        | 2.383   | 1.930  |         | 0.0162      | 0.0200       | -19.0  | 20.0   |
| 1,3-Dichlorobenzene         | Ave        | 1.294   | 1.104  | 0.6000  | 0.0171      | 0.0200       | -14.7  | 20.0   |
| p-Isopropyltoluene          | Ave        | 2.004   | 1.628  |         | 0.0163      | 0.0200       | -18.7  | 20.0   |
| 1,4-Dichlorobenzene         | Ave        | 1.327   | 1.157  | 0.5000  | 0.0174      | 0.0200       | -12.8  | 20.0   |
| n-Butylbenzene              | Ave        | 1.832   | 1.360  |         | 0.0148      | 0.0200       | -25.8* | 20.0   |
| 1,2-Dichlorobenzene         | Ave        | 1.258   | 1.117  | 0.4000  | 0.0178      | 0.0200       | -11.2  | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 240-337453/4 Calibration Date: 07/23/2018 09:29  
 Instrument ID: A3UX16 Calib Start Date: 07/06/2018 18:36  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/06/2018 20:58  
 Lab File ID: UXM12817.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D     | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| 1,2-Dibromo-3-Chloropropane  | Ave           | 0.1714  | 0.1595 | 0.0500  | 0.0186         | 0.0200          | -7.0   | 50.0      |
| 1,2,4-Trichlorobenzene       | Lin1          |         | 0.4629 | 0.2000  | 0.0161         | 0.0200          | -19.6  | 50.0      |
| Hexachlorobutadiene          | Ave           | 0.2716  | 0.1466 |         | 0.0108         | 0.0200          | -46.0* | 20.0      |
| Naphthalene                  | Ave           | 2.435   | 1.864  |         | 0.0153         | 0.0200          | -23.4  | 50.0      |
| 1,2,3-Trichlorobenzene       | Lin1          |         | 0.4066 |         | 0.0153         | 0.0200          | -23.3* | 20.0      |
| Dibromofluoromethane (Surr)  | Ave           | 0.2415  | 0.2392 |         | 0.0198         | 0.0200          | -1.0   | 20.0      |
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.3545  | 0.3223 |         | 0.0182         | 0.0200          | -9.1   | 20.0      |
| Toluene-d8 (Surr)            | Ave           | 1.301   | 1.176  |         | 0.0181         | 0.0200          | -9.7   | 20.0      |
| 4-Bromofluorobenzene (Surr)  | Ave           | 0.4608  | 0.4047 |         | 0.0176         | 0.0200          | -12.2  | 20.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 240-337453/6 Calibration Date: 07/23/2018 10:27  
 Instrument ID: A3UX16 Calib Start Date: 07/06/2018 23:04  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/07/2018 01:02  
 Lab File ID: UXM12819.D Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                          | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D     | MAX<br>%D |
|----------------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| Acetonitrile                     | Ave           | 0.0347  | 0.0477 |         | 0.275          | 0.200           | 37.6*  | 20.0      |
| Diisopropyl ether                | Ave           | 0.2695  | 0.3011 |         | 0.0223         | 0.0200          | 11.7   | 20.0      |
| 2-Chloro-1,3-butadiene           | Ave           | 0.4517  | 0.4777 |         | 0.0212         | 0.0200          | 5.8    | 20.0      |
| Ethyl-t-butyl ether (ETBE)       | Ave           | 0.9338  | 1.033  |         | 0.0221         | 0.0200          | 10.6   | 20.0      |
| Ethyl acetate                    | Ave           | 0.2967  | 0.3618 |         | 0.0488         | 0.0400          | 21.9   | 50.0      |
| Propionitrile                    | Ave           | 0.0465  | 0.0597 |         | 0.257          | 0.200           | 28.5*  | 20.0      |
| Methacrylonitrile                | Ave           | 0.2013  | 0.2433 |         | 0.242          | 0.200           | 20.9*  | 20.0      |
| Tert-amyl-methyl ether<br>(TAME) | Ave           | 0.9402  | 1.028  |         | 0.0219         | 0.0200          | 9.3    | 20.0      |
| n-Butanol                        | Ave           | 0.0086  | 0.0101 |         | 0.587          | 0.500           | 17.3   | 20.0      |
| Ethyl acrylate                   | Ave           | 0.3810  | 0.4901 |         | 0.0257         | 0.0200          | 28.6*  | 20.0      |
| Methyl methacrylate              | Ave           | 0.2734  | 0.3345 |         | 0.0489         | 0.0400          | 22.4*  | 20.0      |
| 2-Nitropropane                   | Ave           | 0.0827  | 0.0846 |         | 0.0409         | 0.0400          | 2.2    | 20.0      |
| n-Butyl acetate                  | Ave           | 0.4226  | 0.5375 |         | 0.0254         | 0.0200          | 27.2*  | 20.0      |
| 1-Chlorohexane                   | Ave           | 0.3721  | 0.3072 |         | 0.0165         | 0.0200          | -17.4  | 20.0      |
| Cyclohexanone                    | Ave           | 0.0291  | 0.0322 |         | 0.221          | 0.200           | 10.4   | 20.0      |
| Pentachloroethane                | Ave           | 0.1440  | 0.1609 |         | 0.0447         | 0.0400          | 11.7   | 20.0      |
| 1,2,3-Trimethylbenzene           | Ave           | 2.420   | 2.181  |         | 0.0180         | 0.0200          | -9.9   | 20.0      |
| Benzyl chloride                  | Lin1          |         | 0.2784 |         | 0.0159         | 0.0200          | -20.4* | 20.0      |
| 1,3,5-Trichlorobenzene           | Ave           | 0.7094  | 0.5156 |         | 0.0145         | 0.0200          | -27.3* | 20.0      |
| 2-Methylnaphthalene              | Lin1          |         | 0.6254 |         | 0.0272         | 0.0400          | -32.1* | 20.0      |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Lab File ID: bfb028.d BFB Injection Date: 07/13/2018  
Instrument ID: A3UX19 BFB Injection Time: 11:39  
Analysis Batch No.: 336107

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 17.6                 |
| 75  | 30.0 - 60.0 % of mass 95           | 47.9                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.6                  |
| 173 | Less than 2.0 % of mass 174        | 1.0 (1.2) 1          |
| 174 | 50.0 - 120.00 % of mass 95         | 83.8                 |
| 175 | 5.0 - 9.0 % of mass 174            | 6.3 (7.5) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 82.3 (98.2) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 5.4 (6.6) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID         | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|-----------------------|-------------|---------------|---------------|
|                  | STD8260 240-336107/8  | U1900604.d  | 07/13/2018    | 12:25         |
|                  | STD8260 240-336107/9  | U1900605.d  | 07/13/2018    | 12:47         |
|                  | STD8260 240-336107/10 | U1900606.d  | 07/13/2018    | 13:10         |
|                  | ICIS 240-336107/11    | U1900607.d  | 07/13/2018    | 13:32         |
|                  | STD8260 240-336107/12 | U1900608.d  | 07/13/2018    | 13:53         |
|                  | STD8260 240-336107/13 | U1900609.d  | 07/13/2018    | 14:16         |
|                  | STD8260 240-336107/14 | U1900610.d  | 07/13/2018    | 14:38         |
|                  | ICV 240-336107/15     | U1900611.d  | 07/13/2018    | 15:00         |
|                  | STDA9 240-336107/18   | U1900614.d  | 07/13/2018    | 16:07         |
|                  | STDA9 240-336107/19   | U1900615.d  | 07/13/2018    | 16:29         |
|                  | STDA9 240-336107/20   | U1900616.d  | 07/13/2018    | 16:51         |
|                  | STDA9 240-336107/21   | U1900617.d  | 07/13/2018    | 17:13         |
|                  | STDA9 240-336107/22   | U1900618.d  | 07/13/2018    | 17:35         |
|                  | STDA9 240-336107/23   | U1900619.d  | 07/13/2018    | 17:58         |
|                  | ICV 240-336107/24     | U1900620.d  | 07/13/2018    | 18:20         |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1 Analy Batch No.: 336107

SDG No.: \_\_\_\_\_

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/13/2018 12:25 Calibration End Date: 07/13/2018 14:38 Calibration ID: 45930

Calibration Files:

|         |                       |              |
|---------|-----------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:        | LAB FILE ID: |
| Level 1 | STD8260 240-336107/8  | U1900604.d   |
| Level 2 | STD8260 240-336107/9  | U1900605.d   |
| Level 3 | STD8260 240-336107/10 | U1900606.d   |
| Level 4 | ICIS 240-336107/11    | U1900607.d   |
| Level 5 | STD8260 240-336107/12 | U1900608.d   |
| Level 6 | STD8260 240-336107/13 | U1900609.d   |
| Level 7 | STD8260 240-336107/14 | U1900610.d   |

| ANALYTE                                 | RRF              |                  |        |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|-----------------------------------------|------------------|------------------|--------|--------|--------|------------|-------------|--------|----|---|---------|------|---|----------|------------|---|----------------|
|                                         | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |   |          |            |   |                |
| Dichlorodifluoromethane                 | +++++<br>0.3975  | 0.2679<br>0.3856 | 0.3553 | 0.3971 | 0.3997 | Ave        |             | 0.3672 |    |   | 0.1000  | 14.0 |   | 20.0     |            |   |                |
| Chloromethane                           | 0.3692<br>0.3417 | 0.3503<br>0.3352 | 0.3465 | 0.3456 | 0.3644 | Ave        |             | 0.3504 |    |   | 0.1000  | 3.5  |   | 20.0     |            |   |                |
| Butadiene                               | 0.2872<br>0.3332 | 0.2939<br>0.3245 | 0.3295 | 0.3391 | 0.3524 | Ave        |             | 0.3228 |    |   |         | 7.4  |   | 20.0     |            |   |                |
| Vinyl chloride                          | 0.3063<br>0.3468 | 0.3068<br>0.3333 | 0.3488 | 0.3496 | 0.3606 | Ave        |             | 0.3360 |    |   | 0.1000  | 6.4  |   | 20.0     |            |   |                |
| Bromomethane                            | 0.2604<br>0.2205 | 0.2469<br>0.2114 | 0.2383 | 0.2328 | 0.2384 | Ave        |             | 0.2355 |    |   | 0.0500  | 6.9  |   | 20.0     |            |   |                |
| Chloroethane                            | 0.1878<br>0.1876 | 0.1997<br>0.1818 | 0.2037 | 0.1997 | 0.2049 | Ave        |             | 0.1950 |    |   | 0.0500  | 4.7  |   | 20.0     |            |   |                |
| Dichlorofluoromethane                   | 0.4453<br>0.4502 | 0.4812<br>0.4381 | 0.4771 | 0.4644 | 0.4844 | Ave        |             | 0.4630 |    |   |         | 4.0  |   | 20.0     |            |   |                |
| Trichlorofluoromethane                  | 0.3624<br>0.4467 | 0.4174<br>0.4315 | 0.4536 | 0.4539 | 0.4684 | Ave        |             | 0.4334 |    |   | 0.1000  | 8.2  |   | 20.0     |            |   |                |
| Ethyl ether                             | 0.1986<br>0.1996 | 0.1882<br>0.2018 | 0.2182 | 0.2086 | 0.1924 | Ave        |             | 0.2011 |    |   |         | 5.0  |   | 20.0     |            |   |                |
| Acrolein                                | 0.0431<br>0.0555 | 0.0450<br>0.0531 | 0.0574 | 0.0562 | 0.0602 | Ave        |             | 0.0529 |    |   |         | 12.2 |   | 20.0     |            |   |                |
| 1,1-Dichloroethene                      | 0.3363<br>0.3821 | 0.3464<br>0.3755 | 0.4123 | 0.4021 | 0.3731 | Ave        |             | 0.3754 |    |   | 0.1000  | 7.3  |   | 20.0     |            |   |                |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 0.1805<br>0.2512 | 0.2048<br>0.2501 | 0.2561 | 0.2750 | 0.2434 | Ave        |             | 0.2373 |    |   | 0.0500  | 13.8 |   | 20.0     |            |   |                |
| Acetone                                 | 0.2207<br>0.0939 | 0.1416<br>0.0924 | 0.1036 | 0.0956 | 0.0880 | Lin1       | 0.1227      | 0.0914 |    |   | 0.0100  | 7.5  |   |          | 0.9990     |   | 0.9900         |
| Iodomethane                             | 0.3833<br>0.4644 | 0.4285<br>0.4622 | 0.4929 | 0.4879 | 0.4538 | Ave        |             | 0.4533 |    |   |         | 8.3  |   | 20.0     |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.



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

Lab Name: TestAmerica Canton Job No.: 240-98276-1 Analy Batch No.: 336107  
SDG No.: \_\_\_\_\_  
Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 07/13/2018 12:25 Calibration End Date: 07/13/2018 14:38 Calibration ID: 45930

| ANALYTE                  | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|--------------------------|------------------|------------------|--------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                          | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| Carbon disulfide         | 0.7338<br>0.7717 | 0.7206<br>0.7763 | 0.8165 | 0.8046 | 0.7498 | Ave           |             | 0.7676 |    |   | 0.1000  | 4.6  |   | 20.0        |               |   |                   |
| 3-Chloro-1-propene       | 0.4485<br>0.3943 | 0.3981<br>0.3901 | 0.4169 | 0.4195 | 0.3827 | Ave           |             | 0.4071 |    |   |         | 5.6  |   | 20.0        |               |   |                   |
| Methyl acetate           | 0.1953<br>0.2224 | 0.2055<br>0.2285 | 0.2413 | 0.2309 | 0.2090 | Ave           |             | 0.2190 |    |   | 0.1000  | 7.4  |   | 20.0        |               |   |                   |
| Methylene Chloride       | ++++<br>0.3046   | 0.3922<br>0.3045 | 0.3379 | 0.3304 | 0.3008 | Ave           |             | 0.3284 |    |   | 0.1000  | 10.6 |   | 20.0        |               |   |                   |
| tert-Butyl alcohol       | 0.0334<br>0.0412 | 0.0317<br>0.0409 | 0.0424 | 0.0429 | 0.0385 | Ave           |             | 0.0387 |    |   |         | 11.5 |   | 20.0        |               |   |                   |
| Acrylonitrile            | 0.0820<br>0.1092 | 0.0917<br>0.1090 | 0.1176 | 0.1135 | 0.1027 | Ave           |             | 0.1037 |    |   |         | 12.2 |   | 20.0        |               |   |                   |
| trans-1,2-Dichloroethene | 0.3329<br>0.3663 | 0.3435<br>0.3610 | 0.3993 | 0.3822 | 0.3558 | Ave           |             | 0.3630 |    |   | 0.1000  | 6.2  |   | 20.0        |               |   |                   |
| Methyl tert-butyl ether  | 0.6788<br>0.7358 | 0.6879<br>0.7393 | 0.7961 | 0.7877 | 0.7228 | Ave           |             | 0.7355 |    |   | 0.1000  | 6.1  |   | 20.0        |               |   |                   |
| Hexane                   | ++++<br>0.3365   | 0.2459<br>0.3522 | 0.3269 | 0.3541 | 0.3130 | Ave           |             | 0.3214 |    |   |         | 12.5 |   | 20.0        |               |   |                   |
| 1,1-Dichloroethane       | 0.4191<br>0.4491 | 0.3945<br>0.4518 | 0.4889 | 0.4717 | 0.4307 | Ave           |             | 0.4437 |    |   | 0.2000  | 7.2  |   | 20.0        |               |   |                   |
| Vinyl acetate            | 0.3527<br>0.3491 | 0.3265<br>0.3461 | 0.4108 | 0.3901 | 0.3580 | Ave           |             | 0.3619 |    |   |         | 7.9  |   | 20.0        |               |   |                   |
| cis-1,2-Dichloroethene   | 0.2678<br>0.3083 | 0.2912<br>0.3096 | 0.3282 | 0.3148 | 0.2964 | Ave           |             | 0.3023 |    |   | 0.1000  | 6.4  |   | 20.0        |               |   |                   |
| 2,2-Dichloropropane      | 0.3081<br>0.3113 | 0.3041<br>0.3030 | 0.3500 | 0.3285 | 0.3034 | Ave           |             | 0.3155 |    |   |         | 5.6  |   | 20.0        |               |   |                   |
| 2-Butanone               | 0.0298<br>0.0367 | 0.0322<br>0.0380 | 0.0387 | 0.0369 | 0.0338 | Ave           |             | 0.0352 |    |   | 0.0100  | 9.4  |   | 20.0        |               |   |                   |
| Bromochloromethane       | 0.1895<br>0.2031 | 0.2033<br>0.2056 | 0.2243 | 0.2199 | 0.1996 | Ave           |             | 0.2065 |    |   |         | 5.8  |   | 20.0        |               |   |                   |
| Tetrahydrofuran          | 0.0885<br>0.0897 | 0.0745<br>0.0939 | 0.0978 | 0.0907 | 0.0832 | Ave           |             | 0.0883 |    |   |         | 8.6  |   | 20.0        |               |   |                   |
| Chloroform               | 0.4095<br>0.4602 | 0.4168<br>0.4644 | 0.4994 | 0.4804 | 0.4456 | Ave           |             | 0.4538 |    |   | 0.2000  | 7.2  |   | 20.0        |               |   |                   |
| 1,1,1-Trichloroethane    | 0.3549<br>0.4182 | 0.3635<br>0.4218 | 0.4521 | 0.4324 | 0.4029 | Ave           |             | 0.4065 |    |   | 0.1000  | 8.8  |   | 20.0        |               |   |                   |
| Cyclohexane              | 0.2884<br>0.3946 | 0.3018<br>0.3999 | 0.4044 | 0.4204 | 0.3807 | Ave           |             | 0.3700 |    |   | 0.1000  | 14.2 |   | 20.0        |               |   |                   |
| 1,1-Dichloropropene      | 0.3155<br>0.3586 | 0.3369<br>0.3678 | 0.3823 | 0.3630 | 0.3403 | Ave           |             | 0.3521 |    |   |         | 6.4  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1 Analy Batch No.: 336107  
SDG No.: \_\_\_\_\_  
Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 07/13/2018 12:25 Calibration End Date: 07/13/2018 14:38 Calibration ID: 45930

| ANALYTE                   | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|---------------------------|------------------|------------------|--------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                           | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| Carbon tetrachloride      | 0.3138<br>0.3723 | 0.3220<br>0.3819 | 0.3898 | 0.3853 | 0.3540 | Ave           |             | 0.3599 |    |   | 0.1000  | 8.6  |   | 20.0        |               |   |                   |
| Isobutyl alcohol          | 0.0091<br>0.0118 | 0.0089<br>0.0120 | 0.0122 | 0.0116 | 0.0107 | Ave           |             | 0.0109 |    |   |         | 12.8 |   | 20.0        |               |   |                   |
| Benzene                   | 0.9308<br>0.9850 | 0.9428<br>1.0126 | 1.0570 | 1.0136 | 0.9431 | Ave           |             | 0.9836 |    |   | 0.5000  | 4.8  |   | 20.0        |               |   |                   |
| 1,2-Dichloroethane        | 0.3234<br>0.3225 | 0.3082<br>0.3303 | 0.3511 | 0.3369 | 0.3087 | Ave           |             | 0.3259 |    |   | 0.1000  | 4.7  |   | 20.0        |               |   |                   |
| n-Heptane                 | ++++<br>0.1845   | 0.7517<br>0.1925 | 0.2275 | 0.2086 | 0.1740 | Lin1          | 0.5646      | 0.1765 |    |   |         | 6.4  |   |             | 0.9970        |   | 0.9900            |
| Trichloroethene           | 0.2912<br>0.3040 | 0.2919<br>0.3142 | 0.3184 | 0.3005 | 0.2792 | Ave           |             | 0.2999 |    |   | 0.1500  | 4.6  |   | 20.0        |               |   |                   |
| Methylcyclohexane         | 0.3325<br>0.4716 | 0.3620<br>0.4904 | 0.4762 | 0.4920 | 0.4479 | Ave           |             | 0.4389 |    |   | 0.1000  | 14.8 |   | 20.0        |               |   |                   |
| 1,2-Dichloropropane       | 0.1990<br>0.2201 | 0.1983<br>0.2294 | 0.2340 | 0.2241 | 0.2082 | Ave           |             | 0.2161 |    |   | 0.1000  | 6.7  |   | 20.0        |               |   |                   |
| Dibromomethane            | 0.1985<br>0.1971 | 0.1786<br>0.2065 | 0.2128 | 0.2015 | 0.1904 | Ave           |             | 0.1979 |    |   |         | 5.6  |   | 20.0        |               |   |                   |
| 1,4-Dioxane               | 0.0022<br>0.0033 | 0.0018<br>0.0033 | 0.0032 | 0.0033 | 0.0029 | Lin1          | -0.017      | 0.0032 |    |   |         | 12.8 |   |             | 0.9980        |   | 0.9900            |
| Bromodichloromethane      | 0.2961<br>0.3217 | 0.2748<br>0.3358 | 0.3365 | 0.3208 | 0.3025 | Ave           |             | 0.3126 |    |   | 0.1500  | 7.2  |   | 20.0        |               |   |                   |
| 2-Chloroethyl vinyl ether | 0.1309<br>0.1367 | 0.1225<br>0.1490 | 0.1399 | 0.1328 | 0.1246 | Ave           |             | 0.1338 |    |   |         | 6.8  |   | 20.0        |               |   |                   |
| cis-1,3-Dichloropropene   | 0.3223<br>0.3489 | 0.3020<br>0.3716 | 0.3519 | 0.3424 | 0.3175 | Ave           |             | 0.3367 |    |   | 0.1500  | 7.1  |   | 20.0        |               |   |                   |
| 4-Methyl-2-pentanone      | 0.2313<br>0.2625 | 0.2176<br>0.2770 | 0.2775 | 0.2646 | 0.2483 | Ave           |             | 0.2541 |    |   | 0.0500  | 9.0  |   | 20.0        |               |   |                   |
| Toluene                   | 1.4470<br>1.3258 | 1.3308<br>1.3555 | 1.4432 | 1.3756 | 1.3037 | Ave           |             | 1.3688 |    |   | 0.4000  | 4.2  |   | 20.0        |               |   |                   |
| trans-1,3-Dichloropropene | 0.3846<br>0.4087 | 0.3744<br>0.4301 | 0.4204 | 0.4055 | 0.3878 | Ave           |             | 0.4016 |    |   | 0.1000  | 5.0  |   | 20.0        |               |   |                   |
| Ethyl methacrylate        | 0.3415<br>0.3790 | 0.3261<br>0.4046 | 0.4023 | 0.3848 | 0.3682 | Ave           |             | 0.3723 |    |   |         | 7.9  |   | 20.0        |               |   |                   |
| 1,1,2-Trichloroethane     | 0.2569<br>0.2593 | 0.2452<br>0.2724 | 0.2856 | 0.2690 | 0.2525 | Ave           |             | 0.2630 |    |   | 0.1000  | 5.2  |   | 20.0        |               |   |                   |
| Tetrachloroethene         | 0.3719<br>0.4065 | 0.3927<br>0.4168 | 0.4380 | 0.4214 | 0.3984 | Ave           |             | 0.4065 |    |   | 0.1500  | 5.3  |   | 20.0        |               |   |                   |
| 1,3-Dichloropropane       | 0.4278<br>0.4378 | 0.4065<br>0.4540 | 0.4795 | 0.4507 | 0.4242 | Ave           |             | 0.4401 |    |   |         | 5.4  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1 Analy Batch No.: 336107

SDG No.: \_\_\_\_\_

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/13/2018 12:25 Calibration End Date: 07/13/2018 14:38 Calibration ID: 45930

| ANALYTE                     | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|-----------------------------|------------------|------------------|--------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                             | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| 2-Hexanone                  | 0.2122<br>0.2214 | 0.1842<br>0.2382 | 0.2477 | 0.2223 | 0.2092 | Ave           |             | 0.2193 |    |   | 0.0500  | 9.4  |   | 20.0        |               |   |                   |
| Dibromochloromethane        | 0.3074<br>0.3293 | 0.2790<br>0.3451 | 0.3450 | 0.3285 | 0.3206 | Ave           |             | 0.3221 |    |   |         | 7.2  |   | 20.0        |               |   |                   |
| 1,2-Dibromoethane           | 0.2719<br>0.2805 | 0.2697<br>0.2960 | 0.3010 | 0.2872 | 0.2702 | Ave           |             | 0.2824 |    |   |         | 4.5  |   | 20.0        |               |   |                   |
| Chlorobenzene               | 0.7791<br>0.8783 | 0.8579<br>0.9120 | 0.9472 | 0.9041 | 0.8541 | Ave           |             | 0.8761 |    |   | 0.3000  | 6.1  |   | 20.0        |               |   |                   |
| 1,1,1,2-Tetrachloroethane   | 0.2828<br>0.3554 | 0.3282<br>0.3585 | 0.3701 | 0.3642 | 0.3480 | Ave           |             | 0.3439 |    |   |         | 8.8  |   | 20.0        |               |   |                   |
| Ethylbenzene                | 0.4896<br>0.4908 | 0.4843<br>0.5079 | 0.5245 | 0.4996 | 0.4798 | Ave           |             | 0.4966 |    |   |         | 3.1  |   | 20.0        |               |   |                   |
| m-Xylene & p-Xylene         | 0.5632<br>0.6008 | 0.5445<br>0.6226 | 0.6419 | 0.6121 | 0.5901 | Ave           |             | 0.5964 |    |   |         | 5.7  |   | 20.0        |               |   |                   |
| o-Xylene                    | 0.5206<br>0.6131 | 0.5589<br>0.6288 | 0.6559 | 0.6300 | 0.6076 | Ave           |             | 0.6021 |    |   |         | 7.7  |   | 20.0        |               |   |                   |
| Styrene                     | 0.8780<br>0.9610 | 0.8485<br>1.0208 | 1.0125 | 0.9634 | 0.9456 | Ave           |             | 0.9471 |    |   | 0.3000  | 6.8  |   | 20.0        |               |   |                   |
| Bromoform                   | 0.2103<br>0.2546 | 0.2027<br>0.2734 | 0.2554 | 0.2540 | 0.2427 | Ave           |             | 0.2419 |    |   | 0.1000  | 10.7 |   | 20.0        |               |   |                   |
| Isopropylbenzene            | 1.3278<br>1.6741 | 1.4973<br>1.7086 | 1.7929 | 1.7375 | 1.6657 | Ave           |             | 1.6291 |    |   | 0.1000  | 9.9  |   | 20.0        |               |   |                   |
| 1,1,2,2-Tetrachloroethane   | 0.6021<br>0.6647 | 0.6030<br>0.7102 | 0.7729 | 0.7138 | 0.6770 | Ave           |             | 0.6777 |    |   | 0.3000  | 9.1  |   | 20.0        |               |   |                   |
| Bromobenzene                | 0.6066<br>0.6384 | 0.6247<br>0.6932 | 0.7016 | 0.6743 | 0.6276 | Ave           |             | 0.6523 |    |   |         | 5.7  |   | 20.0        |               |   |                   |
| 1,2,3-Trichloropropane      | 0.2221<br>0.2247 | 0.2203<br>0.2450 | 0.2636 | 0.2391 | 0.2182 | Ave           |             | 0.2333 |    |   |         | 7.2  |   | 20.0        |               |   |                   |
| trans-1,4-Dichloro-2-butene | 0.1617<br>0.1695 | 0.1552<br>0.1958 | 0.1876 | 0.1695 | 0.1619 | Ave           |             | 0.1716 |    |   |         | 8.6  |   | 20.0        |               |   |                   |
| n-Propylbenzene             | 0.7132<br>0.7307 | 0.6822<br>0.7834 | 0.8002 | 0.7540 | 0.7143 | Ave           |             | 0.7397 |    |   |         | 5.7  |   | 20.0        |               |   |                   |
| 2-Chlorotoluene             | 0.6334<br>0.6291 | 0.6213<br>0.6629 | 0.6912 | 0.6665 | 0.6188 | Ave           |             | 0.6462 |    |   |         | 4.3  |   | 20.0        |               |   |                   |
| 1,3,5-Trimethylbenzene      | 1.9247<br>2.2122 | 1.9319<br>2.3401 | 2.4235 | 2.3425 | 2.2013 | Ave           |             | 2.1966 |    |   |         | 9.1  |   | 20.0        |               |   |                   |
| 4-Chlorotoluene             | 0.5970<br>0.6261 | 0.5738<br>0.6768 | 0.6856 | 0.6440 | 0.6107 | Ave           |             | 0.6306 |    |   |         | 6.5  |   | 20.0        |               |   |                   |
| tert-Butylbenzene           | 1.8318<br>2.1032 | 1.7927<br>2.2297 | 2.2435 | 2.1737 | 2.0712 | Ave           |             | 2.0637 |    |   |         | 8.9  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1 Analy Batch No.: 336107  
SDG No.: \_\_\_\_\_  
Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 07/13/2018 12:25 Calibration End Date: 07/13/2018 14:38 Calibration ID: 45930

| ANALYTE                      | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|------------------------------|------------------|------------------|--------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                              | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| 1,2,4-Trimethylbenzene       | 2.0296<br>2.2966 | 2.0272<br>2.4082 | 2.5031 | 2.3960 | 2.2647 | Ave           |             | 2.2751 |    |   |         | 8.2  |   | 20.0        |               |   |                   |
| sec-Butylbenzene             | 2.5497<br>2.9819 | 2.6514<br>3.1332 | 3.2497 | 3.1225 | 2.9294 | Ave           |             | 2.9454 |    |   |         | 8.8  |   | 20.0        |               |   |                   |
| 1,3-Dichlorobenzene          | 1.2711<br>1.3171 | 1.3200<br>1.4218 | 1.4602 | 1.3707 | 1.3083 | Ave           |             | 1.3527 |    |   | 0.6000  | 5.0  |   | 20.0        |               |   |                   |
| p-Isopropyltoluene           | 2.0424<br>2.6178 | 2.1891<br>2.7582 | 2.8388 | 2.7296 | 2.6009 | Ave           |             | 2.5396 |    |   |         | 12.0 |   | 20.0        |               |   |                   |
| 1,4-Dichlorobenzene          | 1.3817<br>1.3267 | 1.3026<br>1.4258 | 1.4825 | 1.3834 | 1.3172 | Ave           |             | 1.3743 |    |   | 0.5000  | 4.7  |   | 20.0        |               |   |                   |
| n-Butylbenzene               | 1.8731<br>2.3084 | 1.9263<br>2.4510 | 2.5338 | 2.4501 | 2.3038 | Ave           |             | 2.2638 |    |   |         | 11.6 |   | 20.0        |               |   |                   |
| 1,2-Dichlorobenzene          | 1.2343<br>1.3055 | 1.2985<br>1.3527 | 1.4661 | 1.3680 | 1.3000 | Ave           |             | 1.3321 |    |   | 0.4000  | 5.5  |   | 20.0        |               |   |                   |
| 1,2-Dibromo-3-Chloropropane  | ++++<br>0.2331   | 0.1442<br>0.2418 | 0.2529 | 0.2456 | 0.2241 | Ave           |             | 0.2236 |    |   | 0.0500  | 18.0 |   | 20.0        |               |   |                   |
| 1,2,4-Trichlorobenzene       | 0.9422<br>1.0399 | 0.9536<br>1.0920 | 1.1232 | 1.1189 | 1.0423 | Ave           |             | 1.0446 |    |   | 0.2000  | 7.1  |   | 20.0        |               |   |                   |
| Hexachlorobutadiene          | 0.4255<br>0.5342 | 0.4421<br>0.5660 | 0.5596 | 0.5506 | 0.5326 | Ave           |             | 0.5158 |    |   |         | 11.1 |   | 20.0        |               |   |                   |
| Naphthalene                  | 2.2888<br>2.8920 | 2.2963<br>2.9592 | 3.1324 | 3.1047 | 2.8952 | Ave           |             | 2.7955 |    |   |         | 12.7 |   | 20.0        |               |   |                   |
| 1,2,3-Trichlorobenzene       | 0.8796<br>0.9991 | 0.8584<br>1.0305 | 1.0947 | 1.0749 | 0.9949 | Ave           |             | 0.9903 |    |   |         | 9.2  |   | 20.0        |               |   |                   |
| Dibromofluoromethane (Surr)  | 0.2538<br>0.2615 | 0.2725<br>0.2604 | 0.2779 | 0.2656 | 0.2662 | Ave           |             | 0.2654 |    |   |         | 3.0  |   | 20.0        |               |   |                   |
| 1,2-Dichloroethane-d4 (Surr) | 0.2812<br>0.2733 | 0.2996<br>0.2769 | 0.2969 | 0.2836 | 0.2778 | Ave           |             | 0.2842 |    |   |         | 3.6  |   | 20.0        |               |   |                   |
| Toluene-d8 (Surr)            | 1.2501<br>1.1735 | 1.2078<br>1.1858 | 1.2552 | 1.1935 | 1.2016 | Ave           |             | 1.2097 |    |   |         | 2.6  |   | 20.0        |               |   |                   |
| 4-Bromofluorobenzene (Surr)  | 0.4979<br>0.4211 | 0.4494<br>0.4422 | 0.4453 | 0.4225 | 0.4352 | Ave           |             | 0.4448 |    |   |         | 5.8  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1 Analy Batch No.: 336107

SDG No.: \_\_\_\_\_

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/13/2018 16:07 Calibration End Date: 07/13/2018 17:58 Calibration ID: 45934

Calibration Files:

|         |                     |              |
|---------|---------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:      | LAB FILE ID: |
| Level 1 | STDA9 240-336107/18 | U1900614.d   |
| Level 2 | STDA9 240-336107/19 | U1900615.d   |
| Level 3 | STDA9 240-336107/20 | U1900616.d   |
| Level 4 | STDA9 240-336107/21 | U1900617.d   |
| Level 5 | STDA9 240-336107/22 | U1900618.d   |
| Level 6 | STDA9 240-336107/23 | U1900619.d   |

| ANALYTE                       | RRF              |        |        |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|-------------------------------|------------------|--------|--------|--------|--------|------------|-------------|--------|----|---|---------|------|---|----------|------------|---|----------------|
|                               | LVL 1<br>LVL 6   | LVL 2  | LVL 3  | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |   |          |            |   |                |
| Acetonitrile                  | 0.0469<br>0.0400 | 0.0417 | 0.0440 | 0.0411 | 0.0433 | Ave        |             | 0.0429 |    |   |         | 5.8  |   | 20.0     |            |   |                |
| Diisopropyl ether             | 0.2259<br>0.2324 | 0.2187 | 0.2397 | 0.2313 | 0.2496 | Ave        |             | 0.2329 |    |   |         | 4.6  |   | 20.0     |            |   |                |
| 2-Chloro-1,3-butadiene        | 0.3595<br>0.4295 | 0.3718 | 0.4397 | 0.4307 | 0.4539 | Ave        |             | 0.4142 |    |   |         | 9.4  |   | 20.0     |            |   |                |
| Ethyl-t-butyl ether (ETBE)    | 0.7624<br>0.7641 | 0.7375 | 0.8144 | 0.7659 | 0.8444 | Ave        |             | 0.7814 |    |   |         | 5.1  |   | 20.0     |            |   |                |
| Ethyl acetate                 | 0.2486<br>0.2617 | 0.2387 | 0.2365 | 0.2342 | 0.2521 | Ave        |             | 0.2453 |    |   |         | 4.4  |   | 20.0     |            |   |                |
| Propionitrile                 | 0.0469<br>0.0445 | 0.0403 | 0.0447 | 0.0425 | 0.0461 | Ave        |             | 0.0442 |    |   |         | 5.5  |   | 20.0     |            |   |                |
| Methacrylonitrile             | 0.1570<br>0.1694 | 0.1572 | 0.1676 | 0.1646 | 0.1746 | Ave        |             | 0.1651 |    |   |         | 4.2  |   | 20.0     |            |   |                |
| Tert-amyl-methyl ether (TAME) | 0.7511<br>0.7758 | 0.7308 | 0.8170 | 0.7879 | 0.8422 | Ave        |             | 0.7841 |    |   |         | 5.2  |   | 20.0     |            |   |                |
| n-Butanol                     | 0.0087<br>0.0110 | 0.0081 | 0.0098 | 0.0099 | 0.0108 | Ave        |             | 0.0097 |    |   |         | 11.8 |   | 20.0     |            |   |                |
| Ethyl acrylate                | 0.2312<br>0.3208 | 0.2368 | 0.2637 | 0.2766 | 0.2933 | Ave        |             | 0.2704 |    |   |         | 12.6 |   | 20.0     |            |   |                |
| Methyl methacrylate           | 0.1707<br>0.2179 | 0.1807 | 0.1922 | 0.1928 | 0.2071 | Ave        |             | 0.1935 |    |   |         | 8.8  |   | 20.0     |            |   |                |
| 2-Nitropropane                | 0.0545<br>0.0683 | 0.0583 | 0.0542 | 0.0565 | 0.0630 | Ave        |             | 0.0591 |    |   |         | 9.3  |   | 20.0     |            |   |                |
| n-Butyl acetate               | 0.4593<br>0.5145 | 0.4506 | 0.4562 | 0.4618 | 0.5026 | Ave        |             | 0.4742 |    |   |         | 5.7  |   | 20.0     |            |   |                |
| 1-Chlorohexane                | 0.4814<br>0.4652 | 0.4068 | 0.4265 | 0.4314 | 0.4625 | Ave        |             | 0.4456 |    |   |         | 6.4  |   | 20.0     |            |   |                |
| Cyclohexanone                 | 0.0217<br>0.0183 | 0.0197 | 0.0190 | 0.0186 | 0.0199 | Ave        |             | 0.0195 |    |   |         | 6.2  |   | 20.0     |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1 Analy Batch No.: 336107

SDG No.: \_\_\_\_\_

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/13/2018 16:07 Calibration End Date: 07/13/2018 17:58 Calibration ID: 45934

| ANALYTE                     | RRF              |        |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|-----------------------------|------------------|--------|--------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                             | LVL 1<br>LVL 6   | LVL 2  | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| Pentachloroethane           | 0.3161<br>0.4065 | 0.3367 | 0.3792 | 0.3731 | 0.2848 | Ave           |             | 0.3494 |    |   |         | 12.9 |   | 20.0        |               |   |                   |
| 1,2,3-Trimethylbenzene      | 2.2961<br>2.4899 | 2.2807 | 2.5613 | 2.4482 | 2.6968 | Ave           |             | 2.4622 |    |   |         | 6.5  |   | 20.0        |               |   |                   |
| Benzyl chloride             | 0.9490<br>1.4641 | 0.9911 | 1.2258 | 1.2673 | 1.4484 | Ave           |             | 1.2243 |    |   |         | 17.9 |   | 20.0        |               |   |                   |
| 1,3,5-Trichlorobenzene      | 1.0896<br>1.1918 | 1.0594 | 1.2607 | 1.1809 | 1.3138 | Ave           |             | 1.1827 |    |   |         | 8.2  |   | 20.0        |               |   |                   |
| 2-Methylnaphthalene         | ++++<br>2.0162   | 1.4361 | 1.9498 | 1.9270 | 2.1658 | Ave           |             | 1.8990 |    |   |         | 14.5 |   | 20.0        |               |   |                   |
| 1-Chloro-1-fluoroethane TIC | 0.2501<br>0.2740 | 0.2896 | 0.3101 | 0.2824 | 0.3093 | Ave           |             | 0.2859 |    |   |         | 7.9  |   | 20.0        |               |   |                   |

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.: 240-98276-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 240-336107/15 Calibration Date: 07/13/2018 15:00

Instrument ID: A3UX19 Calib Start Date: 07/13/2018 12:25

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/13/2018 14:38

Lab File ID: U1900611.d Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|---------------------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Dichlorodifluoromethane                     | Ave           | 0.3672  | 0.3650 | 0.1000  | 0.0199         | 0.0200          | -0.6  | 30.0      |
| Chloromethane                               | Ave           | 0.3504  | 0.3608 | 0.1000  | 0.0206         | 0.0200          | 3.0   | 30.0      |
| Butadiene                                   | Ave           | 0.3228  | 0.3228 |         | 0.0200         | 0.0200          | -0.0  | 30.0      |
| Vinyl chloride                              | Ave           | 0.3360  | 0.3668 | 0.1000  | 0.0218         | 0.0200          | 9.2   | 30.0      |
| Bromomethane                                | Ave           | 0.2355  | 0.2424 | 0.0500  | 0.0206         | 0.0200          | 2.9   | 30.0      |
| Chloroethane                                | Ave           | 0.1950  | 0.2082 | 0.0500  | 0.0214         | 0.0200          | 6.8   | 30.0      |
| Dichlorofluoromethane                       | Ave           | 0.4630  | 0.5159 |         | 0.0223         | 0.0200          | 11.4  | 30.0      |
| Trichlorofluoromethane                      | Ave           | 0.4334  | 0.4815 | 0.1000  | 0.0222         | 0.0200          | 11.1  | 30.0      |
| Ethyl ether                                 | Ave           | 0.2011  | 0.2189 |         | 0.0218         | 0.0200          | 8.9   | 30.0      |
| Acrolein                                    | Ave           | 0.0529  | 0.0297 |         | 0.0561         | 0.100           | -43.9 | 50.0      |
| 1,1-Dichloroethene                          | Ave           | 0.3754  | 0.4176 | 0.1000  | 0.0222         | 0.0200          | 11.2  | 30.0      |
| 1,1,2-Trichloro-1,2,2-trichf<br>luoroethane | Ave           | 0.2373  | 0.2707 | 0.0500  | 0.0228         | 0.0200          | 14.1  | 30.0      |
| Acetone                                     | Lin1          |         | 0.1014 | 0.0100  | 0.0431         | 0.0400          | 7.6   | 50.0      |
| Iodomethane                                 | Ave           | 0.4533  | 0.5079 |         | 0.0224         | 0.0200          | 12.0  | 30.0      |
| Carbon disulfide                            | Ave           | 0.7676  | 0.8555 | 0.1000  | 0.0223         | 0.0200          | 11.4  | 30.0      |
| 3-Chloro-1-propene                          | Ave           | 0.4071  | 0.4195 |         | 0.0206         | 0.0200          | 3.0   | 30.0      |
| Methyl acetate                              | Ave           | 0.2190  | 0.2245 | 0.1000  | 0.0410         | 0.0400          | 2.5   | 30.0      |
| Methylene Chloride                          | Ave           | 0.3284  | 0.3299 | 0.1000  | 0.0201         | 0.0200          | 0.5   | 50.0      |
| tert-Butyl alcohol                          | Ave           | 0.0387  | 0.0445 |         | 0.230          | 0.200           | 15.0  | 50.0      |
| Acrylonitrile                               | Ave           | 0.1037  | 0.1151 |         | 0.222          | 0.200           | 11.0  | 30.0      |
| trans-1,2-Dichloroethene                    | Ave           | 0.3630  | 0.4018 | 0.1000  | 0.0221         | 0.0200          | 10.7  | 30.0      |
| Methyl tert-butyl ether                     | Ave           | 0.7355  | 0.7759 | 0.1000  | 0.0211         | 0.0200          | 5.5   | 30.0      |
| Hexane                                      | Ave           | 0.3214  | 0.3555 |         | 0.0221         | 0.0200          | 10.6  | 30.0      |
| 1,1-Dichloroethane                          | Ave           | 0.4437  | 0.4681 | 0.2000  | 0.0211         | 0.0200          | 5.5   | 30.0      |
| Vinyl acetate                               | Ave           | 0.3619  | 0.4367 |         | 0.0241         | 0.0200          | 20.7  | 50.0      |
| cis-1,2-Dichloroethene                      | Ave           | 0.3023  | 0.3150 | 0.1000  | 0.0208         | 0.0200          | 4.2   | 30.0      |
| 2,2-Dichloropropane                         | Ave           | 0.3155  | 0.3330 |         | 0.0211         | 0.0200          | 5.6   | 30.0      |
| 2-Butanone                                  | Ave           | 0.0352  | 0.0373 | 0.0100  | 0.0425         | 0.0400          | 6.2   | 30.0      |
| Bromochloromethane                          | Ave           | 0.2065  | 0.2184 |         | 0.0212         | 0.0200          | 5.8   | 30.0      |
| Tetrahydrofuran                             | Ave           | 0.0883  | 0.0939 |         | 0.0425         | 0.0400          | 6.3   | 30.0      |
| Chloroform                                  | Ave           | 0.4538  | 0.4779 | 0.2000  | 0.0211         | 0.0200          | 5.3   | 30.0      |
| 1,1,1-Trichloroethane                       | Ave           | 0.4065  | 0.4386 | 0.1000  | 0.0216         | 0.0200          | 7.9   | 30.0      |
| Cyclohexane                                 | Ave           | 0.3700  | 0.4183 | 0.1000  | 0.0226         | 0.0200          | 13.0  | 30.0      |
| 1,1-Dichloropropene                         | Ave           | 0.3521  | 0.3666 |         | 0.0208         | 0.0200          | 4.1   | 30.0      |
| Carbon tetrachloride                        | Ave           | 0.3599  | 0.3830 | 0.1000  | 0.0213         | 0.0200          | 6.4   | 30.0      |
| Isobutyl alcohol                            | Ave           | 0.0109  | 0.0120 |         | 0.551          | 0.500           | 10.1  | 30.0      |
| Benzene                                     | Ave           | 0.9836  | 1.003  | 0.5000  | 0.0204         | 0.0200          | 2.0   | 30.0      |
| 1,2-Dichloroethane                          | Ave           | 0.3259  | 0.3329 | 0.1000  | 0.0204         | 0.0200          | 2.2   | 30.0      |
| n-Heptane                                   | Lin1          |         | 0.2052 |         | 0.0201         | 0.0200          | 0.3   | 30.0      |
| Trichloroethene                             | Ave           | 0.2999  | 0.3058 | 0.1500  | 0.0204         | 0.0200          | 2.0   | 30.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 240-336107/15 Calibration Date: 07/13/2018 15:00

Instrument ID: A3UX19 Calib Start Date: 07/13/2018 12:25

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/13/2018 14:38

Lab File ID: U1900611.d Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|-----------------------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| Methylcyclohexane           | Ave           | 0.4389  | 0.4789 | 0.1000  | 0.0218         | 0.0200          | 9.1  | 30.0      |
| 1,2-Dichloropropane         | Ave           | 0.2161  | 0.2306 | 0.1000  | 0.0213         | 0.0200          | 6.7  | 30.0      |
| Dibromomethane              | Ave           | 0.1979  | 0.2031 |         | 0.0205         | 0.0200          | 2.6  | 30.0      |
| 1,4-Dioxane                 | Lin1          |         | 0.0037 |         | 0.467          | 0.400           | 16.6 | 50.0      |
| Bromodichloromethane        | Ave           | 0.3126  | 0.3237 | 0.1500  | 0.0207         | 0.0200          | 3.6  | 30.0      |
| 2-Chloroethyl vinyl ether   | Ave           | 0.1338  | 0.1352 |         | 0.0202         | 0.0200          | 1.0  | 30.0      |
| cis-1,3-Dichloropropene     | Ave           | 0.3367  | 0.3533 | 0.1500  | 0.0210         | 0.0200          | 4.9  | 30.0      |
| 4-Methyl-2-pentanone        | Ave           | 0.2541  | 0.2688 | 0.0500  | 0.0423         | 0.0400          | 5.8  | 30.0      |
| Toluene                     | Ave           | 1.369   | 1.384  | 0.4000  | 0.0202         | 0.0200          | 1.1  | 30.0      |
| trans-1,3-Dichloropropene   | Ave           | 0.4016  | 0.4056 | 0.1000  | 0.0202         | 0.0200          | 1.0  | 30.0      |
| Ethyl methacrylate          | Ave           | 0.3723  | 0.3783 |         | 0.0203         | 0.0200          | 1.6  | 30.0      |
| 1,1,2-Trichloroethane       | Ave           | 0.2630  | 0.2755 | 0.1000  | 0.0209         | 0.0200          | 4.7  | 30.0      |
| Tetrachloroethene           | Ave           | 0.4065  | 0.4165 | 0.1500  | 0.0205         | 0.0200          | 2.5  | 30.0      |
| 1,3-Dichloropropane         | Ave           | 0.4401  | 0.4458 |         | 0.0203         | 0.0200          | 1.3  | 30.0      |
| 2-Hexanone                  | Ave           | 0.2193  | 0.2353 | 0.0500  | 0.0429         | 0.0400          | 7.3  | 30.0      |
| Dibromochloromethane        | Ave           | 0.3221  | 0.3397 |         | 0.0211         | 0.0200          | 5.5  | 30.0      |
| 1,2-Dibromoethane           | Ave           | 0.2824  | 0.2928 |         | 0.0207         | 0.0200          | 3.7  | 30.0      |
| Chlorobenzene               | Ave           | 0.8761  | 0.9054 | 0.3000  | 0.0207         | 0.0200          | 3.3  | 30.0      |
| 1,1,1,2-Tetrachloroethane   | Ave           | 0.3439  | 0.3670 |         | 0.0213         | 0.0200          | 6.7  | 30.0      |
| Ethylbenzene                | Ave           | 0.4966  | 0.5008 |         | 0.0202         | 0.0200          | 0.8  | 30.0      |
| m-Xylene & p-Xylene         | Ave           | 0.5964  | 0.6185 |         | 0.0207         | 0.0200          | 3.7  | 30.0      |
| o-Xylene                    | Ave           | 0.6021  | 0.6329 |         | 0.0210         | 0.0200          | 5.1  | 30.0      |
| Styrene                     | Ave           | 0.9471  | 0.9689 | 0.3000  | 0.0205         | 0.0200          | 2.3  | 30.0      |
| Bromoform                   | Ave           | 0.2419  | 0.2577 | 0.1000  | 0.0213         | 0.0200          | 6.5  | 30.0      |
| Isopropylbenzene            | Ave           | 1.629   | 1.748  | 0.1000  | 0.0215         | 0.0200          | 7.3  | 30.0      |
| 1,1,2,2-Tetrachloroethane   | Ave           | 0.6777  | 0.7183 | 0.3000  | 0.0212         | 0.0200          | 6.0  | 30.0      |
| Bromobenzene                | Ave           | 0.6523  | 0.6664 |         | 0.0204         | 0.0200          | 2.2  | 30.0      |
| 1,2,3-Trichloropropane      | Ave           | 0.2333  | 0.2418 |         | 0.0207         | 0.0200          | 3.6  | 30.0      |
| trans-1,4-Dichloro-2-butene | Ave           | 0.1716  | 0.1795 |         | 0.0209         | 0.0200          | 4.6  | 30.0      |
| n-Propylbenzene             | Ave           | 0.7397  | 0.7524 |         | 0.0203         | 0.0200          | 1.7  | 30.0      |
| 2-Chlorotoluene             | Ave           | 0.6462  | 0.6409 |         | 0.0198         | 0.0200          | -0.8 | 30.0      |
| 1,3,5-Trimethylbenzene      | Ave           | 2.197   | 2.274  |         | 0.0207         | 0.0200          | 3.5  | 30.0      |
| 4-Chlorotoluene             | Ave           | 0.6306  | 0.6481 |         | 0.0206         | 0.0200          | 2.8  | 30.0      |
| tert-Butylbenzene           | Ave           | 2.064   | 2.148  |         | 0.0208         | 0.0200          | 4.1  | 30.0      |
| 1,2,4-Trimethylbenzene      | Ave           | 2.275   | 2.352  |         | 0.0207         | 0.0200          | 3.4  | 30.0      |
| sec-Butylbenzene            | Ave           | 2.945   | 3.045  |         | 0.0207         | 0.0200          | 3.4  | 30.0      |
| 1,3-Dichlorobenzene         | Ave           | 1.353   | 1.386  | 0.6000  | 0.0205         | 0.0200          | 2.5  | 30.0      |
| p-Isopropyltoluene          | Ave           | 2.540   | 2.694  |         | 0.0212         | 0.0200          | 6.1  | 30.0      |
| 1,4-Dichlorobenzene         | Ave           | 1.374   | 1.402  | 0.5000  | 0.0204         | 0.0200          | 2.0  | 30.0      |
| n-Butylbenzene              | Ave           | 2.264   | 2.378  |         | 0.0210         | 0.0200          | 5.1  | 30.0      |
| 1,2-Dichlorobenzene         | Ave           | 1.332   | 1.386  | 0.4000  | 0.0208         | 0.0200          | 4.0  | 30.0      |



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 240-336107/15 Calibration Date: 07/13/2018 15:00  
 Instrument ID: A3UX19 Calib Start Date: 07/13/2018 12:25  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/13/2018 14:38  
 Lab File ID: U1900611.d Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D  | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|-----|-----------|
| 1,2-Dibromo-3-Chloropropane  | Ave           | 0.2236  | 0.2388 | 0.0500  | 0.0214         | 0.0200          | 6.8 | 50.0      |
| 1,2,4-Trichlorobenzene       | Ave           | 1.045   | 1.091  | 0.2000  | 0.0209         | 0.0200          | 4.5 | 50.0      |
| Hexachlorobutadiene          | Ave           | 0.5158  | 0.5609 |         | 0.0217         | 0.0200          | 8.7 | 30.0      |
| Naphthalene                  | Ave           | 2.795   | 3.056  |         | 0.0219         | 0.0200          | 9.3 | 50.0      |
| 1,2,3-Trichlorobenzene       | Ave           | 0.9903  | 1.066  |         | 0.0215         | 0.0200          | 7.7 | 30.0      |
| Dibromofluoromethane (Surr)  | Ave           | 0.2654  | 0.2840 |         | 0.0214         | 0.0200          | 7.0 | 30.0      |
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.2842  | 0.3062 |         | 0.0215         | 0.0200          | 7.7 | 30.0      |
| Toluene-d8 (Surr)            | Ave           | 1.210   | 1.271  |         | 0.0210         | 0.0200          | 5.1 | 30.0      |
| 4-Bromofluorobenzene (Surr)  | Ave           | 0.4448  | 0.4837 |         | 0.0217         | 0.0200          | 8.7 | 30.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: ICV 240-336107/24 Calibration Date: 07/13/2018 18:20  
Instrument ID: A3UX19 Calib Start Date: 07/13/2018 12:25  
GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/13/2018 14:38  
Lab File ID: U1900620.d Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D  | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|-----|-----------|
| Dibromofluoromethane (Surr)  | Ave           | 0.2654  | 0.2784 |         | 0.0210         | 0.0200          | 4.9 | 30.0      |
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.2842  | 0.2994 |         | 0.0211         | 0.0200          | 5.3 | 30.0      |
| Toluene-d8 (Surr)            | Ave           | 1.210   | 1.256  |         | 0.0208         | 0.0200          | 3.8 | 30.0      |
| 4-Bromofluorobenzene (Surr)  | Ave           | 0.4448  | 0.4716 |         | 0.0212         | 0.0200          | 6.0 | 30.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 240-336107/24 Calibration Date: 07/13/2018 18:20  
 Instrument ID: A3UX19 Calib Start Date: 07/13/2018 16:07  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/13/2018 17:58  
 Lab File ID: U1900620.d Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                          | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|----------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Acetonitrile                     | Ave           | 0.0429  | 0.0404 |         | 0.189          | 0.200           | -5.7  | 30.0      |
| Diisopropyl ether                | Ave           | 0.2329  | 0.2397 |         | 0.0206         | 0.0200          | 2.9   | 30.0      |
| 2-Chloro-1,3-butadiene           | Ave           | 0.4142  | 0.4139 |         | 0.0200         | 0.0200          | -0.0  | 30.0      |
| Ethyl-t-butyl ether (ETBE)       | Ave           | 0.7814  | 0.7799 |         | 0.0200         | 0.0200          | -0.2  | 30.0      |
| Ethyl acetate                    | Ave           | 0.2453  | 0.2374 |         | 0.0387         | 0.0400          | -3.2  | 50.0      |
| Propionitrile                    | Ave           | 0.0442  | 0.0442 |         | 0.200          | 0.200           | -0.0  | 30.0      |
| Methacrylonitrile                | Ave           | 0.1651  | 0.1643 |         | 0.199          | 0.200           | -0.5  | 30.0      |
| Tert-amyl-methyl ether<br>(TAME) | Ave           | 0.7841  | 0.7854 |         | 0.0200         | 0.0200          | 0.2   | 30.0      |
| n-Butanol                        | Ave           | 0.0097  | 0.0103 |         | 0.530          | 0.500           | 5.9   | 30.0      |
| Ethyl acrylate                   | Ave           | 0.2704  | 0.2782 |         | 0.0206         | 0.0200          | 2.9   | 30.0      |
| Methyl methacrylate              | Ave           | 0.1935  | 0.1919 |         | 0.0397         | 0.0400          | -0.9  | 30.0      |
| 2-Nitropropane                   | Ave           | 0.0591  | 0.0578 |         | 0.0391         | 0.0400          | -2.2  | 30.0      |
| n-Butyl acetate                  | Ave           | 0.4742  | 0.4582 |         | 0.0193         | 0.0200          | -3.4  | 30.0      |
| 1-Chlorohexane                   | Ave           | 0.4456  | 0.4366 |         | 0.0196         | 0.0200          | -2.0  | 30.0      |
| Cyclohexanone                    | Ave           | 0.0195  | 0.0211 |         | 0.216          | 0.200           | 7.8   | 30.0      |
| Pentachloroethane                | Ave           | 0.3494  | 0.3141 |         | 0.0360         | 0.0400          | -10.1 | 30.0      |
| 1,2,3-Trimethylbenzene           | Ave           | 2.462   | 2.541  |         | 0.0206         | 0.0200          | 3.2   | 30.0      |
| Benzyl chloride                  | Ave           | 1.224   | 1.219  |         | 0.0199         | 0.0200          | -0.5  | 30.0      |
| 1,3,5-Trichlorobenzene           | Ave           | 1.183   | 1.267  |         | 0.0214         | 0.0200          | 7.1   | 30.0      |
| 2-Methylnaphthalene              | Ave           | 1.899   | 1.968  |         | 0.0415         | 0.0400          | 3.6   | 30.0      |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: bfb029.d BFB Injection Date: 07/15/2018  
 Instrument ID: A3UX19 BFB Injection Time: 11:11  
 Analysis Batch No.: 336272

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 16.9                 |
| 75  | 30.0 - 60.0 % of mass 95           | 46.5                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.9                  |
| 173 | Less than 2.0 % of mass 174        | 1.0 (1.0) 1          |
| 174 | 50.0 - 120.00 % of mass 95         | 92.3                 |
| 175 | 5.0 - 9.0 % of mass 174            | 7.1 (7.7) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 90.4 (97.9) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 5.8 (6.4) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
|                  | CCV 240-336272/4   | U1900626.d  | 07/15/2018    | 11:34         |
|                  | CCVIS 240-336272/5 | U1900627.d  | 07/15/2018    | 11:56         |
|                  | LCS 240-336272/6   | U1900628.d  | 07/15/2018    | 12:18         |
|                  | MB 240-336272/9    | U1900631.d  | 07/15/2018    | 13:25         |
| MSA-SW37A-070918 | 240-98276-1        | U1900642.d  | 07/15/2018    | 17:30         |
| MSA-SW37B-070918 | 240-98276-2        | U1900643.d  | 07/15/2018    | 17:52         |
| MSA-SW37C-070918 | 240-98276-3        | U1900644.d  | 07/15/2018    | 18:14         |
| MSA-SW37D-070918 | 240-98276-4        | U1900645.d  | 07/15/2018    | 18:36         |
| MSA-SW38A-070918 | 240-98276-5        | U1900646.d  | 07/15/2018    | 18:58         |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 240-336272/4 Calibration Date: 07/15/2018 11:34  
 Instrument ID: A3UX19 Calib Start Date: 07/13/2018 16:07  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/13/2018 17:58  
 Lab File ID: U1900626.d Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                          | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|----------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Acetonitrile                     | Ave           | 0.0429  | 0.0375 |         | 0.175          | 0.200           | -12.4 | 20.0      |
| Diisopropyl ether                | Ave           | 0.2329  | 0.2262 |         | 0.0194         | 0.0200          | -2.9  | 20.0      |
| 2-Chloro-1,3-butadiene           | Ave           | 0.4142  | 0.4028 |         | 0.0194         | 0.0200          | -2.8  | 20.0      |
| Ethyl-t-butyl ether (ETBE)       | Ave           | 0.7814  | 0.7488 |         | 0.0192         | 0.0200          | -4.2  | 20.0      |
| Ethyl acetate                    | Ave           | 0.2453  | 0.2501 |         | 0.0408         | 0.0400          | 2.0   | 50.0      |
| Propionitrile                    | Ave           | 0.0442  | 0.0423 |         | 0.192          | 0.200           | -4.2  | 20.0      |
| Methacrylonitrile                | Ave           | 0.1651  | 0.1649 |         | 0.200          | 0.200           | -0.0  | 20.0      |
| Tert-amyl-methyl ether<br>(TAME) | Ave           | 0.7841  | 0.7556 |         | 0.0193         | 0.0200          | -3.6  | 20.0      |
| n-Butanol                        | Ave           | 0.0097  | 0.0101 |         | 0.519          | 0.500           | 3.8   | 20.0      |
| Ethyl acrylate                   | Ave           | 0.2704  | 0.3081 |         | 0.0228         | 0.0200          | 14.0  | 20.0      |
| Methyl methacrylate              | Ave           | 0.1935  | 0.2104 |         | 0.0435         | 0.0400          | 8.7   | 20.0      |
| 2-Nitropropane                   | Ave           | 0.0591  | 0.0629 |         | 0.0426         | 0.0400          | 6.4   | 20.0      |
| n-Butyl acetate                  | Ave           | 0.4742  | 0.4703 |         | 0.0198         | 0.0200          | -0.8  | 20.0      |
| 1-Chlorohexane                   | Ave           | 0.4456  | 0.4419 |         | 0.0198         | 0.0200          | -0.8  | 20.0      |
| Cyclohexanone                    | Ave           | 0.0195  | 0.0172 |         | 0.176          | 0.200           | -11.9 | 20.0      |
| Pentachloroethane                | Ave           | 0.3494  | 0.4298 |         | 0.0492         | 0.0400          | 23.0* | 20.0      |
| 1,2,3-Trimethylbenzene           | Ave           | 2.462   | 2.493  |         | 0.0202         | 0.0200          | 1.2   | 20.0      |
| Benzyl chloride                  | Ave           | 1.224   | 1.367  |         | 0.0223         | 0.0200          | 11.7  | 20.0      |
| 1,3,5-Trichlorobenzene           | Ave           | 1.183   | 1.214  |         | 0.0205         | 0.0200          | 2.6   | 20.0      |
| 2-Methylnaphthalene              | Ave           | 1.899   | 1.892  |         | 0.0399         | 0.0400          | -0.4  | 20.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 240-336272/5 Calibration Date: 07/15/2018 11:56

Instrument ID: A3UX19 Calib Start Date: 07/13/2018 12:25

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/13/2018 14:38

Lab File ID: U1900627.d Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                                     | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D   | MAX %D |
|---------------------------------------------|------------|---------|--------|---------|-------------|--------------|------|--------|
| Dichlorodifluoromethane                     | Ave        | 0.3672  | 0.3558 | 0.1000  | 0.0194      | 0.0200       | -3.1 | 20.0   |
| Chloromethane                               | Ave        | 0.3504  | 0.3439 | 0.1000  | 0.0196      | 0.0200       | -1.8 | 20.0   |
| Butadiene                                   | Ave        | 0.3228  | 0.3092 |         | 0.0192      | 0.0200       | -4.2 | 20.0   |
| Vinyl chloride                              | Ave        | 0.3360  | 0.3295 | 0.1000  | 0.0196      | 0.0200       | -1.9 | 20.0   |
| Bromomethane                                | Ave        | 0.2355  | 0.2274 | 0.0500  | 0.0193      | 0.0200       | -3.4 | 20.0   |
| Chloroethane                                | Ave        | 0.1950  | 0.1975 | 0.0500  | 0.0203      | 0.0200       | 1.3  | 20.0   |
| Dichlorofluoromethane                       | Ave        | 0.4630  | 0.4510 |         | 0.0195      | 0.0200       | -2.6 | 20.0   |
| Trichlorofluoromethane                      | Ave        | 0.4334  | 0.4184 | 0.1000  | 0.0193      | 0.0200       | -3.5 | 20.0   |
| Ethyl ether                                 | Ave        | 0.2011  | 0.1931 |         | 0.0192      | 0.0200       | -4.0 | 20.0   |
| Acrolein                                    | Ave        | 0.0529  | 0.0514 |         | 0.0971      | 0.100        | -2.9 | 50.0   |
| 1,1-Dichloroethene                          | Ave        | 0.3754  | 0.3691 | 0.1000  | 0.0197      | 0.0200       | -1.7 | 20.0   |
| 1,1,2-Trichloro-1,2,2-trichf<br>luoroethane | Ave        | 0.2373  | 0.2426 | 0.0500  | 0.0204      | 0.0200       | 2.2  | 20.0   |
| Acetone                                     | Lin1       |         | 0.0858 | 0.0100  | 0.0362      | 0.0400       | -9.4 | 50.0   |
| Iodomethane                                 | Ave        | 0.4533  | 0.4570 |         | 0.0202      | 0.0200       | 0.8  | 20.0   |
| Carbon disulfide                            | Ave        | 0.7676  | 0.7482 | 0.1000  | 0.0195      | 0.0200       | -2.5 | 20.0   |
| 3-Chloro-1-propene                          | Ave        | 0.4071  | 0.3927 |         | 0.0193      | 0.0200       | -3.6 | 20.0   |
| Methyl acetate                              | Ave        | 0.2190  | 0.2098 | 0.1000  | 0.0383      | 0.0400       | -4.2 | 20.0   |
| Methylene Chloride                          | Ave        | 0.3284  | 0.3042 | 0.1000  | 0.0185      | 0.0200       | -7.4 | 50.0   |
| tert-Butyl alcohol                          | Ave        | 0.0387  | 0.0389 |         | 0.201       | 0.200        | 0.5  | 50.0   |
| Acrylonitrile                               | Ave        | 0.1037  | 0.1028 |         | 0.198       | 0.200        | -0.8 | 20.0   |
| Methyl tert-butyl ether                     | Ave        | 0.7355  | 0.7298 | 0.1000  | 0.0198      | 0.0200       | -0.8 | 20.0   |
| trans-1,2-Dichloroethene                    | Ave        | 0.3630  | 0.3641 | 0.1000  | 0.0201      | 0.0200       | 0.3  | 20.0   |
| Hexane                                      | Ave        | 0.3214  | 0.3385 |         | 0.0211      | 0.0200       | 5.3  | 20.0   |
| 1,1-Dichloroethane                          | Ave        | 0.4437  | 0.4378 | 0.2000  | 0.0197      | 0.0200       | -1.3 | 20.0   |
| Vinyl acetate                               | Ave        | 0.3619  | 0.3611 |         | 0.0200      | 0.0200       | -0.2 | 50.0   |
| cis-1,2-Dichloroethene                      | Ave        | 0.3023  | 0.2979 | 0.1000  | 0.0197      | 0.0200       | -1.5 | 20.0   |
| 2,2-Dichloropropane                         | Ave        | 0.3155  | 0.3203 |         | 0.0203      | 0.0200       | 1.5  | 20.0   |
| 2-Butanone                                  | Ave        | 0.0352  | 0.0346 | 0.0100  | 0.0394      | 0.0400       | -1.5 | 20.0   |
| Bromochloromethane                          | Ave        | 0.2065  | 0.2024 |         | 0.0196      | 0.0200       | -2.0 | 20.0   |
| Tetrahydrofuran                             | Ave        | 0.0883  | 0.0872 |         | 0.0395      | 0.0400       | -1.2 | 20.0   |
| Chloroform                                  | Ave        | 0.4538  | 0.4403 | 0.2000  | 0.0194      | 0.0200       | -3.0 | 20.0   |
| 1,1,1-Trichloroethane                       | Ave        | 0.4065  | 0.4067 | 0.1000  | 0.0200      | 0.0200       | 0.0  | 20.0   |
| Cyclohexane                                 | Ave        | 0.3700  | 0.3863 | 0.1000  | 0.0209      | 0.0200       | 4.4  | 20.0   |
| 1,1-Dichloropropene                         | Ave        | 0.3521  | 0.3486 |         | 0.0198      | 0.0200       | -1.0 | 20.0   |
| Carbon tetrachloride                        | Ave        | 0.3599  | 0.3662 | 0.1000  | 0.0204      | 0.0200       | 1.8  | 20.0   |
| Isobutyl alcohol                            | Ave        | 0.0109  | 0.0106 |         | 0.488       | 0.500        | -2.4 | 20.0   |
| 1,2-Dichloroethane                          | Ave        | 0.3259  | 0.3144 | 0.1000  | 0.0193      | 0.0200       | -3.5 | 20.0   |
| Benzene                                     | Ave        | 0.9836  | 0.9748 | 0.5000  | 0.0198      | 0.0200       | -0.9 | 20.0   |
| n-Heptane                                   | Lin1       |         | 0.2123 |         | 0.0209      | 0.0200       | 4.3  | 20.0   |
| Trichloroethene                             | Ave        | 0.2999  | 0.2962 | 0.1500  | 0.0198      | 0.0200       | -1.2 | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 240-336272/5 Calibration Date: 07/15/2018 11:56

Instrument ID: A3UX19 Calib Start Date: 07/13/2018 12:25

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/13/2018 14:38

Lab File ID: U1900627.d Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|-----------------------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| Methylcyclohexane           | Ave           | 0.4389  | 0.4646 | 0.1000  | 0.0212         | 0.0200          | 5.9  | 20.0      |
| 1,2-Dichloropropane         | Ave           | 0.2161  | 0.2259 | 0.1000  | 0.0209         | 0.0200          | 4.5  | 20.0      |
| Dibromomethane              | Ave           | 0.1979  | 0.1951 |         | 0.0197         | 0.0200          | -1.4 | 20.0      |
| 1,4-Dioxane                 | Lin1          |         | 0.0030 |         | 0.372          | 0.400           | -6.9 | 50.0      |
| Bromodichloromethane        | Ave           | 0.3126  | 0.3124 | 0.1500  | 0.0200         | 0.0200          | -0.0 | 20.0      |
| 2-Chloroethyl vinyl ether   | Ave           | 0.1338  | 0.1431 |         | 0.0428         | 0.0400          | 7.0  | 20.0      |
| cis-1,3-Dichloropropene     | Ave           | 0.3367  | 0.3489 | 0.1500  | 0.0207         | 0.0200          | 3.6  | 20.0      |
| 4-Methyl-2-pentanone        | Ave           | 0.2541  | 0.2609 | 0.0500  | 0.0411         | 0.0400          | 2.6  | 20.0      |
| Toluene                     | Ave           | 1.369   | 1.341  | 0.4000  | 0.0196         | 0.0200          | -2.0 | 20.0      |
| trans-1,3-Dichloropropene   | Ave           | 0.4016  | 0.4029 | 0.1000  | 0.0201         | 0.0200          | 0.3  | 20.0      |
| Ethyl methacrylate          | Ave           | 0.3723  | 0.3877 |         | 0.0208         | 0.0200          | 4.1  | 20.0      |
| 1,1,2-Trichloroethane       | Ave           | 0.2630  | 0.2694 | 0.1000  | 0.0205         | 0.0200          | 2.4  | 20.0      |
| Tetrachloroethene           | Ave           | 0.4065  | 0.3947 | 0.1500  | 0.0194         | 0.0200          | -2.9 | 20.0      |
| 1,3-Dichloropropane         | Ave           | 0.4401  | 0.4500 |         | 0.0204         | 0.0200          | 2.2  | 20.0      |
| 2-Hexanone                  | Ave           | 0.2193  | 0.2308 | 0.0500  | 0.0421         | 0.0400          | 5.2  | 20.0      |
| Dibromochloromethane        | Ave           | 0.3221  | 0.3272 |         | 0.0203         | 0.0200          | 1.6  | 20.0      |
| 1,2-Dibromoethane           | Ave           | 0.2824  | 0.2815 |         | 0.0199         | 0.0200          | -0.3 | 20.0      |
| Chlorobenzene               | Ave           | 0.8761  | 0.8853 | 0.3000  | 0.0202         | 0.0200          | 1.0  | 20.0      |
| 1,1,1,2-Tetrachloroethane   | Ave           | 0.3439  | 0.3389 |         | 0.0197         | 0.0200          | -1.5 | 20.0      |
| Ethylbenzene                | Ave           | 0.4966  | 0.4939 |         | 0.0199         | 0.0200          | -0.6 | 20.0      |
| m-Xylene & p-Xylene         | Ave           | 0.5964  | 0.6015 |         | 0.0202         | 0.0200          | 0.8  | 20.0      |
| o-Xylene                    | Ave           | 0.6021  | 0.6072 |         | 0.0202         | 0.0200          | 0.8  | 20.0      |
| Styrene                     | Ave           | 0.9471  | 0.9605 | 0.3000  | 0.0203         | 0.0200          | 1.4  | 20.0      |
| Bromoform                   | Ave           | 0.2419  | 0.2394 | 0.1000  | 0.0198         | 0.0200          | -1.0 | 20.0      |
| Isopropylbenzene            | Ave           | 1.629   | 1.648  | 0.1000  | 0.0202         | 0.0200          | 1.2  | 20.0      |
| 1,1,2,2-Tetrachloroethane   | Ave           | 0.6777  | 0.6962 | 0.3000  | 0.0205         | 0.0200          | 2.7  | 20.0      |
| Bromobenzene                | Ave           | 0.6523  | 0.6670 |         | 0.0205         | 0.0200          | 2.3  | 20.0      |
| 1,2,3-Trichloropropane      | Ave           | 0.2333  | 0.2333 |         | 0.0200         | 0.0200          | -0.0 | 20.0      |
| trans-1,4-Dichloro-2-butene | Ave           | 0.1716  | 0.1744 |         | 0.0203         | 0.0200          | 1.6  | 20.0      |
| n-Propylbenzene             | Ave           | 0.7397  | 0.7515 |         | 0.0203         | 0.0200          | 1.6  | 20.0      |
| 2-Chlorotoluene             | Ave           | 0.6462  | 0.6368 |         | 0.0197         | 0.0200          | -1.5 | 20.0      |
| 1,3,5-Trimethylbenzene      | Ave           | 2.197   | 2.255  |         | 0.0205         | 0.0200          | 2.6  | 20.0      |
| 4-Chlorotoluene             | Ave           | 0.6306  | 0.6467 |         | 0.0205         | 0.0200          | 2.6  | 20.0      |
| tert-Butylbenzene           | Ave           | 2.064   | 2.112  |         | 0.0205         | 0.0200          | 2.3  | 20.0      |
| 1,2,4-Trimethylbenzene      | Ave           | 2.275   | 2.316  |         | 0.0204         | 0.0200          | 1.8  | 20.0      |
| sec-Butylbenzene            | Ave           | 2.945   | 2.962  |         | 0.0201         | 0.0200          | 0.6  | 20.0      |
| 1,3-Dichlorobenzene         | Ave           | 1.353   | 1.346  | 0.6000  | 0.0199         | 0.0200          | -0.5 | 20.0      |
| p-Isopropyltoluene          | Ave           | 2.540   | 2.640  |         | 0.0208         | 0.0200          | 4.0  | 20.0      |
| 1,4-Dichlorobenzene         | Ave           | 1.374   | 1.352  | 0.5000  | 0.0197         | 0.0200          | -1.6 | 20.0      |
| n-Butylbenzene              | Ave           | 2.264   | 2.313  |         | 0.0204         | 0.0200          | 2.2  | 20.0      |
| 1,2-Dichlorobenzene         | Ave           | 1.332   | 1.313  | 0.4000  | 0.0197         | 0.0200          | -1.5 | 20.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 240-336272/5 Calibration Date: 07/15/2018 11:56  
 Instrument ID: A3UX19 Calib Start Date: 07/13/2018 12:25  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/13/2018 14:38  
 Lab File ID: U1900627.d Conc. Units: ng/uL Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| 1,2-Dibromo-3-Chloropropane  | Ave           | 0.2236  | 0.2147 | 0.0500  | 0.0192         | 0.0200          | -4.0 | 50.0      |
| 1,2,4-Trichlorobenzene       | Ave           | 1.045   | 1.041  | 0.2000  | 0.0199         | 0.0200          | -0.3 | 50.0      |
| Hexachlorobutadiene          | Ave           | 0.5158  | 0.5165 |         | 0.0200         | 0.0200          | 0.1  | 20.0      |
| Naphthalene                  | Ave           | 2.795   | 2.820  |         | 0.0202         | 0.0200          | 0.9  | 50.0      |
| 1,2,3-Trichlorobenzene       | Ave           | 0.9903  | 0.9931 |         | 0.0201         | 0.0200          | 0.3  | 20.0      |
| Dibromofluoromethane (Surr)  | Ave           | 0.2654  | 0.2774 |         | 0.0209         | 0.0200          | 4.5  | 20.0      |
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.2842  | 0.2974 |         | 0.0209         | 0.0200          | 4.6  | 20.0      |
| Toluene-d8 (Surr)            | Ave           | 1.210   | 1.266  |         | 0.0209         | 0.0200          | 4.6  | 20.0      |
| 4-Bromofluorobenzene (Surr)  | Ave           | 0.4448  | 0.4813 |         | 0.0216         | 0.0200          | 8.2  | 20.0      |



COVER PAGE  
METALS

Lab Name: TestAmerica Canton

Job Number: 240-98276-1

SDG No.: \_\_\_\_\_

Project: MSA Surface Water

Client Sample ID

MSA-SW37A-070918

MSA-SW37B-070918

MSA-SW37C-070918

MSA-SW37D-070918

MSA-SW38A-070918

MSA-SW38B-070918

MSA-SW38C-070918

MSA-SW38D-070918

MSA-SW39A-070918

MSA-SW39B-070918

MSA-SW39C-070918

MSA-SW39D-070918

MSA-SW40A-070918

MSA-SW40B-070918

MSA-SW40C-070918

MSA-SW40D-070918

MSA-SW41A-070918

MSA-SW41B-070918

MSA-SW41C-070918

MSA-SW41D-070918

MSA-SW42A-070918

MSA-SW42B-070918

MSA-SW42C-070918

MSA-SW42D-070918

MSA-SW43A-070918

MSA-SW43B-070918

MSA-SW43C-070918

MSA-SW43D-070918

MSA-SW44A-070918

MSA-SW44B-070918

MSA-SW44C-070918

MSA-SW44D-070918

MSA-SW45A-070918

MSA-SW45B-070918

MSA-SW45C-070918

MSA-SW45D-070918

Lab Sample ID

240-98276-1

240-98276-2

240-98276-3

240-98276-4

240-98276-5

240-98276-6

240-98276-7

240-98276-8

240-98276-9

240-98276-10

240-98276-11

240-98276-12

240-98276-13

240-98276-14

240-98276-15

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240-98276-30

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240-98276-32

240-98276-33

240-98276-34

240-98276-35

240-98276-36

Comments:

9-IN  
DETECTION LIMITS  
METALS - DISSOLVED

Lab Name: TestAmerica Canton

Job Number: 240-98276-1

SDG Number: \_\_\_\_\_

Matrix: Water

Instrument ID: I10

Method: 6020

MDL Date: 04/27/2017 13:23

Prep Method: 3005A

| Analyte    | Wavelength/<br>Mass | RL<br>(ug/L) | MDL<br>(ug/L) |
|------------|---------------------|--------------|---------------|
| Antimony   | 121.00              | 2            | 0.57          |
| Arsenic    | 75.00               | 5            | 0.75          |
| Barium     | 137.00              | 5            | 2.23          |
| Beryllium  | 9.00                | 1            | 0.305         |
| Cadmium    | 111.00              | 1            | 0.212         |
| Chromium   | 52.00               | 2            | 0.98          |
| Cobalt     | 59.00               | 1            | 0.19          |
| Copper     | 65.00               | 2            | 1.7           |
| Lead       | 208.00              | 1            | 0.45          |
| Molybdenum | 95.00               | 5            | 1.08          |
| Nickel     | 60.00               | 2            | 1.47          |
| Selenium   | 78.00               | 5            | 0.89          |
| Silver     | 107.00              | 1            | 0.053         |
| Thallium   | 205.00              | 1            | 0.2           |
| Tungsten   | 182.00              | 10           | 1.78          |
| Vanadium   | 51.00               | 5            | 0.82          |
| Zinc       | 66.00               | 20           | 15            |

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS - DISSOLVED

Lab Name: TestAmerica Canton

Job Number: 240-98276-1

SDG Number: \_\_\_\_\_

Matrix: Water

Instrument ID: I10

Method: 6020

XMDL Date: 04/27/2017 13:25

| Analyte    | Wavelength/<br>Mass | XRL<br>(ug/L) | XMDL<br>(ug/L) |
|------------|---------------------|---------------|----------------|
| Antimony   | 121.00              | 2             | 0.57           |
| Arsenic    | 75.00               | 5             | 0.75           |
| Barium     | 137.00              | 5             | 2.23           |
| Beryllium  | 9.00                | 1             | 0.305          |
| Cadmium    | 111.00              | 1             | 0.212          |
| Chromium   | 52.00               | 2             | 0.98           |
| Cobalt     | 59.00               | 1             | 0.19           |
| Copper     | 65.00               | 2             | 1.7            |
| Lead       | 208.00              | 1             | 0.45           |
| Molybdenum | 95.00               | 5             | 1.08           |
| Nickel     | 60.00               | 2             | 1.47           |
| Selenium   | 78.00               | 5             | 0.89           |
| Silver     | 107.00              | 1             | 0.053          |
| Thallium   | 205.00              | 1             | 0.2            |
| Tungsten   | 182.00              | 10            | 1.78           |
| Vanadium   | 51.00               | 5             | 0.82           |
| Zinc       | 66.00               | 20            | 15             |

9-IN  
DETECTION LIMITS  
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-98276-1  
SDG Number: \_\_\_\_\_  
Matrix: Water Instrument ID: H3  
Method: 7470A MDL Date: 02/22/2017 15:12  
Prep Method: 7470A

| Analyte | Wavelength/<br>Mass | RL<br>(ug/L) | MDL<br>(ug/L) |
|---------|---------------------|--------------|---------------|
| Mercury | 253.7               | 0.2          | 0.13          |

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-98276-1  
SDG Number: \_\_\_\_\_  
Matrix: Water Instrument ID: H3  
Method: 7470A XMDL Date: 02/22/2017 15:12

| Analyte | Wavelength/<br>Mass | XRL<br>(ug/L) | XMDL<br>(ug/L) |
|---------|---------------------|---------------|----------------|
| Mercury | 253.7               | 0.2           | 0.13           |

9-IN  
DETECTION LIMITS  
METALS - DISSOLVED

Lab Name: TestAmerica Canton

Job Number: 240-98276-1

SDG Number: \_\_\_\_\_

Matrix: Water

Instrument ID: NOEQUIP

Method: SM 2340B

RL Date: 04/14/2011 14:06

| Analyte                                    | Wavelength/<br>Mass | RL<br>(mg/L) |  |
|--------------------------------------------|---------------------|--------------|--|
| Calcium hardness as<br>calcium carbonate   |                     | 12           |  |
| Hardness as calcium<br>carbonate           |                     | 33           |  |
| Magnesium hardness as<br>calcium carbonate |                     | 21           |  |

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS - DISSOLVED

Lab Name: TestAmerica Canton

Job Number: 240-98276-1

SDG Number: \_\_\_\_\_

Matrix: Water

Instrument ID: NOEQUIP

Method: SM 2340B

XMDL Date: 04/14/2011 14:07

| Analyte                                    | Wavelength/<br>Mass | XRL<br>(ug/L) | XMDL<br>(ug/L) |
|--------------------------------------------|---------------------|---------------|----------------|
| Calcium hardness as<br>calcium carbonate   |                     | 12000         | 325            |
| Hardness as calcium<br>carbonate           |                     | 33000         | 465            |
| Magnesium hardness as<br>calcium carbonate |                     | 21000         | 140            |

11-IN  
LINEAR RANGES  
METALS

Lab Name: TestAmerica Canton

Job No: 240-98276-1

SDG No.: \_\_\_\_\_

Instrument ID: I10

Date: 03/28/2018 15:06

| Analyte    | Integ.<br>Time<br>(Sec.) | Concentration<br>(ppb) | Method |
|------------|--------------------------|------------------------|--------|
| Antimony   |                          | 200                    | 6020   |
| Arsenic    |                          | 10000                  | 6020   |
| Barium     |                          | 10000                  | 6020   |
| Beryllium  |                          | 2000                   | 6020   |
| Cadmium    |                          | 4000                   | 6020   |
| Chromium   |                          | 10000                  | 6020   |
| Cobalt     |                          | 5000                   | 6020   |
| Copper     |                          | 10000                  | 6020   |
| Lead       |                          | 4000                   | 6020   |
| Molybdenum |                          | 2000                   | 6020   |
| Nickel     |                          | 10000                  | 6020   |
| Selenium   |                          | 10000                  | 6020   |
| Silver     |                          | 300                    | 6020   |
| Thallium   |                          | 2000                   | 6020   |
| Vanadium   |                          | 10000                  | 6020   |
| Zinc       |                          | 10000                  | 6020   |
| Tungsten   |                          | 2500                   | 6020   |



|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Lab Name: <u>TestAmerica Canton</u> | Job No.: <u>240-98276-1</u>       |
| SDG No.: _____                      |                                   |
| Instrument ID: <u>I10</u>           | Analysis Method: <u>6020</u>      |
| Start Date: <u>07/17/2018 10:43</u> | End Date: <u>07/18/2018 05:10</u> |

[illegible]

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Lab Name: <u>TestAmerica Canton</u> | Job No.: <u>240-98276-1</u>       |
| SDG No.: _____                      |                                   |
| Instrument ID: <u>I10</u>           | Analysis Method: <u>6020</u>      |
| Start Date: <u>07/17/2018 10:43</u> | End Date: <u>07/18/2018 05:10</u> |

[illegible]

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Lab Name: <u>TestAmerica Canton</u> | Job No.: <u>240-98276-1</u>       |
| SDG No.: _____                      |                                   |
| Instrument ID: <u>I10</u>           | Analysis Method: <u>6020</u>      |
| Start Date: <u>07/17/2018 10:43</u> | End Date: <u>07/18/2018 05:10</u> |

[illegible]

|                                     |                              |
|-------------------------------------|------------------------------|
| Lab Name: <u>TestAmerica Canton</u> | Job No.: <u>240-98276-1</u>  |
| SDG No.: _____                      |                              |
| Instrument ID: <u>I10</u>           | Analysis Method: <u>6020</u> |
| Start Date: 07/17/2018 10:43        | End Date: 07/18/2018 05:10   |

[illegible]

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Instrument ID: I10

Analysis Method: 6020

Start Date: 07/17/2018 10:43

End Date: 07/18/2018 05:10

| Lab Sample Id       | D/F | Type | Time  | Analytes |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
|---------------------|-----|------|-------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
|                     |     |      |       | A        | A | B | B | C | C | C | C | M | M | N | P | S | S | T | V | W | Z |  |  |  |  |
| ZZZZZZ              |     |      | 23:13 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ              |     |      | 23:17 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CCV 240-336877/171  |     |      | 23:22 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CCB 240-336877/172  |     |      | 23:26 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ              |     |      | 23:31 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ              |     |      | 23:35 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ              |     |      | 23:40 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ              |     |      | 23:44 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ              |     |      | 23:49 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ              |     |      | 23:53 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ              |     |      | 23:57 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ              |     |      | 00:02 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ              |     |      | 00:06 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ              |     |      | 00:11 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CCV 240-336877/183  |     |      | 00:15 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CCB 240-336877/184  |     |      | 00:20 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CCV 240-336877/185  | 1   |      | 00:24 | X        | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |  |  |  |  |
| CCB 240-336877/186  | 1   |      | 00:29 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| CCVL 240-336877/187 |     |      | 00:33 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| MB 240-335639/1-A   | 1   | R    | 00:38 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| LCS 240-335639/2-A  | 1   | R    | 00:42 | X        | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-21        | 1   | D    | 00:47 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-21 SD     | 5   | D    | 00:51 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| ZZZZZZ              |     |      | 00:56 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 240-98276-21 MS     | 1   | D    | 01:00 | X        | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-21 MSD    | 1   | D    | 01:05 | X        | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-22        | 1   | D    | 01:09 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-23        | 1   | D    | 01:13 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| CCV 240-336877/197  | 1   |      | 01:18 | X        | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |  |  |  |  |
| CCB 240-336877/198  | 1   |      | 01:22 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-24        | 1   | D    | 01:27 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-25        | 1   | D    | 01:31 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-26        | 1   | D    | 01:36 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-27        | 1   | D    | 01:40 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-28        | 1   | D    | 01:45 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-29        | 1   | D    | 01:49 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-30        | 1   | D    | 01:54 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-31        | 1   | D    | 01:58 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-32        | 1   | D    | 02:03 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| 240-98276-33        | 1   | D    | 02:07 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |
| CCV 240-336877/209  | 1   |      | 02:12 | X        | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |  |  |  |  |
| CCB 240-336877/210  | 1   |      | 02:16 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X |  |  |  |  |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Instrument ID: I10

Analysis Method: 6020

Start Date: 07/17/2018 10:43

End Date: 07/18/2018 05:10

| Lab Sample Id      | D/F | Type | Time  | Analytes |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
|--------------------|-----|------|-------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
|                    |     |      |       | A        | A | B | B | C | C | C | C | C | M | M | N | P | S | S | T | V | W | Z |  |  |  |  |  |
|                    |     |      |       | g        | s | a | e | a | d | o | r | u | g | o | i | b | b | e | l |   |   |   |  |  |  |  |  |
| 240-98276-34       |     | 1 D  | 02:20 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-35       |     | 1 D  | 02:25 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-36       |     | 1 D  | 02:29 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| CCV 240-336877/214 |     | 1    | 02:34 | X        | X | X |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| CCB 240-336877/215 |     | 1    | 02:38 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| MB 240-335644/1-A  |     | 1 R  | 02:43 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| LCS 240-335644/2-A |     | 1 R  | 02:47 | X        | X | X |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-1        |     | 1 D  | 02:52 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-1 SD     |     | 5 D  | 02:56 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| ZZZZZZ             |     |      | 03:01 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| 240-98276-1 MS     |     | 1 D  | 03:05 | X        | X | X |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-1 MSD    |     | 1 D  | 03:10 | X        | X | X |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-2        |     | 1 D  | 03:14 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-3        |     | 1 D  | 03:19 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-4        |     | 1 D  | 03:23 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| CCV 240-336877/226 |     | 1    | 03:27 | X        | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| CCB 240-336877/227 |     | 1    | 03:32 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-5        |     | 1 D  | 03:36 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-6        |     | 1 D  | 03:41 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-7        |     | 1 D  | 03:45 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-8        |     | 1 D  | 03:50 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-9        |     | 1 D  | 03:54 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-10       |     | 1 D  | 03:59 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-11       |     | 1 D  | 04:03 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-12       |     | 1 D  | 04:08 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-13       |     | 1 D  | 04:12 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-14       |     | 1 D  | 04:17 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| CCV 240-336877/238 |     | 1    | 04:21 | X        | X | X |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| CCB 240-336877/239 |     | 1    | 04:25 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-15       |     | 1 D  | 04:30 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-16       |     | 1 D  | 04:34 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-17       |     | 1 D  | 04:39 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-18       |     | 1 D  | 04:43 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-19       |     | 1 D  | 04:48 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| 240-98276-20       |     | 1 D  | 04:52 | X        | X | X |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| CCV 240-336877/246 |     | 1    | 04:57 | X        | X | X |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| CCB 240-336877/247 |     | 1    | 05:01 | X        | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |  |  |  |  |  |
| CCV 240-336877/248 |     |      | 05:06 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| CCB 240-336877/249 |     |      | 05:10 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Instrument ID: I10 Analysis Method: 6020

Start Date: 07/17/2018 10:43 End Date: 07/18/2018 05:10

| Lab Sample Id | D/F | T<br>y<br>p<br>e | Time | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |   |        |  |  |  |  |
|---------------|-----|------------------|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---|--------|--|--|--|--|
|               |     |                  |      | A<br>g   | A<br>s | B<br>a | B<br>e | C<br>a | C<br>d | C<br>o | C<br>r | C<br>u | M<br>g | M<br>o | N<br>i | P<br>b | S<br>b | S<br>e | T<br>l | V | W | Z<br>n |  |  |  |  |

Prep Types: \_\_\_\_\_  
D = Dissolved  
R = Total Recoverable

# US EPA Tune Check Sample Report

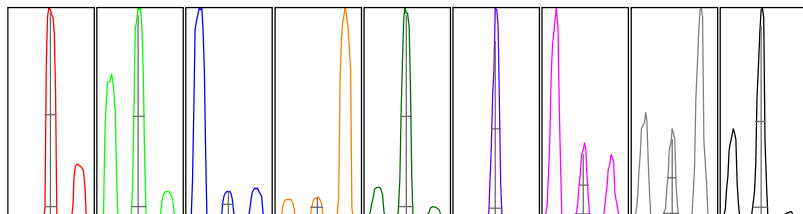
Batch Folder D:\Analytical Runs\I10071718A.b  
 Report Comment  
 Instrument Name I10 JP12452145

[NoGas]

| Mass | Count<br>(Mean) | RSD %<br>(Actual) | RSD %<br>(Required) | RSD %<br>(Flag) |
|------|-----------------|-------------------|---------------------|-----------------|
| 9    | 31268           | 0.72              | 5.00                |                 |
| 24   | 145035          | 0.79              | 5.00                |                 |
| 25   | 17542           | 1.06              | 5.00                |                 |
| 26   | 20010           | 0.86              | 5.00                |                 |
| 59   | 98697           | 1.50              | 5.00                |                 |
| 115  | 94605           | 0.76              | 5.00                |                 |
| 206  | 18898           | 0.73              | 5.00                |                 |
| 207  | 16239           | 1.28              | 5.00                |                 |
| 208  | 39616           | 0.85              | 5.00                |                 |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 31406                | 31102                | 30972                | 31346                | 31516                |
| 24   | 143368               | 144356               | 145956               | 146015               | 145481               |
| 25   | 17312                | 17392                | 17745                | 17686                | 17573                |
| 26   | 19919                | 19841                | 19898                | 20167                | 20224                |
| 59   | 100743               | 99759                | 97282                | 97870                | 97829                |
| 115  | 95749                | 94343                | 94549                | 94607                | 93777                |
| 206  | 18974                | 19065                | 18696                | 18871                | 18882                |
| 207  | 16402                | 16449                | 16288                | 15955                | 16103                |
| 208  | 40099                | 39518                | 39161                | 39638                | 39665                |

Integration Time [sec] = 0.1



| Mass | Peak<br>Height | Axis<br>(Actual) | Axis<br>(Required) | Axis<br>(Flag) | Width-X %<br>(Actual) | Width-X %<br>(Required) | Width-<br>X %<br>(Flag) |
|------|----------------|------------------|--------------------|----------------|-----------------------|-------------------------|-------------------------|
| 9    | 8546           | 9.00             | 8.9 - 9.1          |                | 0.446                 | 0.850                   |                         |
| 24   | 37724          | 23.95            | 23.9 - 24.1        |                | 0.529                 | 0.850                   |                         |
| 25   | 4689           | 25.00            | 24.9 - 25.1        |                | 0.506                 | 0.850                   |                         |
| 26   | 5244           | 26.00            | 25.9 - 26.1        |                | 0.523                 | 0.850                   |                         |
| 59   | 26717          | 59.00            | 58.9 - 59.1        |                | 0.531                 | 0.850                   |                         |
| 115  | 29039          | 115.00           | 114.9 - 115.1      |                | 0.481                 | 0.850                   |                         |
| 206  | 5581           | 205.95           | 205.9 - 206.1      |                | 0.512                 | 0.850                   |                         |
| 207  | 4897           | 206.95           | 206.9 - 207.1      |                | 0.522                 | 0.850                   |                         |
| 208  | 11990          | 207.95           | 207.9 - 208.1      |                | 0.520                 | 0.850                   |                         |

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 212.5 Y Axis = Linear

## Tune Parameters

### ## Plasma Parameters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.45  | L/min | S/C Temp            |       | 2 °C         |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     | Gas Switch          |       | Dilution Gas |
| Smpl Depth    | 8.0   | mm   | Nebulizer Pump | 0.10  | rpm   | Makeup/Dilution Gas |       | 0.55 L/min   |

### ## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 9.2   | V    | Deflect       | 20.0  | V    |
| Extract 2     | -190.0 | V    | Cell Entrance | -50   | V    | Plate Bias    | -90   | V    |
| Omega Bias    | -110   | V    | Cell Exit     | -90   | V    |               |       |      |

### ## Cell Parameters ##



## US EPA Tune Check Sample Report

|                      |              |             |                      |              |             |                       |              |             |
|----------------------|--------------|-------------|----------------------|--------------|-------------|-----------------------|--------------|-------------|
| <b>ParameterName</b> | <b>Value</b> | <b>Unit</b> | <b>ParameterName</b> | <b>Value</b> | <b>Unit</b> | <b>ParameterName</b>  | <b>Value</b> | <b>Unit</b> |
| Use Gas              | false        |             | 3rd Gas Flow         | 0            | %           | Energy Discrimination | 6.0          | V           |
| <b>ParameterName</b> | <b>Value</b> | <b>Unit</b> | <b>ParameterName</b> | <b>Value</b> | <b>Unit</b> | <b>ParameterName</b>  | <b>Value</b> | <b>Unit</b> |
| He Flow              | 0.0          | mL/min      | OctP Bias            | -10.0        | V           |                       |              |             |
| H2 Flow              | 0.0          | mL/min      | OctP RF              | 200          | V           |                       |              |             |

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

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICP-MS Instrument ID: I10

Start Date: 07/17/2018 End Date: 07/18/2018

| Lab Sample ID        | Time  | Internal Standards %RI For: |   |              |   |              |   |            |   |            |   |
|----------------------|-------|-----------------------------|---|--------------|---|--------------|---|------------|---|------------|---|
|                      |       | Element Li-6                | Q | Element Sc/1 | Q | Element Sc/2 | Q | Element Rh | Q | Element In | Q |
| STD1 240-336877/3 IC | 10:52 | 96                          |   | 100          |   | 101          |   | 100        |   | 100        |   |
| STD2 240-336877/4 IC | 10:56 | 90                          |   | 99           |   | 96           |   | 95         |   | 96         |   |
| STD3 240-336877/5 IC | 11:00 | 92                          |   | 95           |   | 94           |   | 92         |   | 94         |   |
| STD4 240-336877/6 IC | 11:05 | 92                          |   | 100          |   | 98           |   | 101        |   | 100        |   |
| ICV 240-336877/7     | 11:09 | 94                          |   | 98           |   | 96           |   | 94         |   | 96         |   |
| ICB 240-336877/8     | 11:14 | 95                          |   | 100          |   | 98           |   | 100        |   | 100        |   |
| ICVL 240-336877/9    | 11:18 | 95                          |   | 100          |   | 97           |   | 100        |   | 101        |   |
| ICSA 240-336877/10   | 11:23 | 87                          |   | 94           |   | 93           |   | 89         |   | 93         |   |
| ICSAB 240-336877/11  | 11:27 | 86                          |   | 94           |   | 94           |   | 90         |   | 94         |   |
| ICSA 240-336877/134  | 20:37 | 80                          |   | 88           |   | 90           |   | 89         |   | 92         |   |
| ICSAB 240-336877/135 | 20:41 | 78                          |   | 86           |   | 89           |   | 89         |   | 92         |   |
| CCV 240-336877/185   | 00:24 | 75                          |   | 79           |   | 84           |   | 90         |   | 90         |   |
| CCB 240-336877/186   | 00:29 | 81                          |   | 81           |   | 85           |   | 98         |   | 95         |   |
| MB 240-335639/1-A    | 00:38 | 75                          |   | 78           |   | 84           |   | 95         |   | 91         |   |
| LCS 240-335639/2-A   | 00:42 | 71                          |   | 75           |   | 80           |   | 88         |   | 85         |   |
| 240-98276-21         | 00:47 | 66                          |   | 73           |   | 77           |   | 80         |   | 81         |   |
| 240-98276-21 SD      | 00:51 | 73                          |   | 79           |   | 81           |   | 89         |   | 90         |   |
| 240-98276-21 MS      | 01:00 | 67                          |   | 74           |   | 78           |   | 82         |   | 82         |   |
| 240-98276-21 MSD     | 01:05 | 66                          |   | 74           |   | 78           |   | 82         |   | 83         |   |
| 240-98276-22         | 01:09 | 70                          |   | 73           |   | 78           |   | 83         |   | 84         |   |
| 240-98276-23         | 01:13 | 69                          |   | 72           |   | 78           |   | 82         |   | 83         |   |
| CCV 240-336877/197   | 01:18 | 77                          |   | 80           |   | 85           |   | 94         |   | 93         |   |
| CCB 240-336877/198   | 01:22 | 80                          |   | 81           |   | 84           |   | 98         |   | 95         |   |
| 240-98276-24         | 01:27 | 71                          |   | 75           |   | 79           |   | 83         |   | 86         |   |
| 240-98276-25         | 01:31 | 69                          |   | 76           |   | 80           |   | 83         |   | 86         |   |
| 240-98276-26         | 01:36 | 71                          |   | 75           |   | 80           |   | 85         |   | 86         |   |
| 240-98276-27         | 01:40 | 72                          |   | 78           |   | 80           |   | 85         |   | 85         |   |
| 240-98276-28         | 01:45 | 71                          |   | 77           |   | 81           |   | 84         |   | 85         |   |
| 240-98276-29         | 01:49 | 71                          |   | 75           |   | 80           |   | 82         |   | 83         |   |
| 240-98276-30         | 01:54 | 69                          |   | 74           |   | 79           |   | 82         |   | 84         |   |
| 240-98276-31         | 01:58 | 70                          |   | 74           |   | 80           |   | 83         |   | 84         |   |
| 240-98276-32         | 02:03 | 69                          |   | 73           |   | 79           |   | 83         |   | 84         |   |
| 240-98276-33         | 02:07 | 72                          |   | 77           |   | 80           |   | 84         |   | 86         |   |
| CCV 240-336877/209   | 02:12 | 80                          |   | 83           |   | 87           |   | 97         |   | 93         |   |
| CCB 240-336877/210   | 02:16 | 81                          |   | 83           |   | 86           |   | 99         |   | 97         |   |
| 240-98276-34         | 02:20 | 70                          |   | 75           |   | 80           |   | 82         |   | 84         |   |
| 240-98276-35         | 02:25 | 70                          |   | 76           |   | 81           |   | 84         |   | 84         |   |
| 240-98276-36         | 02:29 | 69                          |   | 76           |   | 79           |   | 83         |   | 84         |   |

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

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICP-MS Instrument ID: I10

Start Date: 07/17/2018 End Date: 07/18/2018

| Lab Sample ID      | Time  | Internal Standards %RI For: |   |                 |   |                 |   |               |   |               |   |
|--------------------|-------|-----------------------------|---|-----------------|---|-----------------|---|---------------|---|---------------|---|
|                    |       | Element<br>Li-6             | Q | Element<br>Sc/1 | Q | Element<br>Sc/2 | Q | Element<br>Rh | Q | Element<br>In | Q |
| CCV 240-336877/214 | 02:34 | 78                          |   | 83              |   | 84              |   | 93            |   | 90            |   |
| CCB 240-336877/215 | 02:38 | 79                          |   | 82              |   | 84              |   | 96            |   | 94            |   |
| MB 240-335644/1-A  | 02:43 | 74                          |   | 77              |   | 82              |   | 92            |   | 91            |   |
| LCS 240-335644/2-A | 02:47 | 71                          |   | 76              |   | 80              |   | 88            |   | 88            |   |
| 240-98276-1        | 02:52 | 70                          |   | 74              |   | 79              |   | 82            |   | 82            |   |
| 240-98276-1 SD     | 02:56 | 75                          |   | 80              |   | 84              |   | 91            |   | 92            |   |
| 240-98276-1 MS     | 03:05 | 67                          |   | 74              |   | 78              |   | 81            |   | 80            |   |
| 240-98276-1 MSD    | 03:10 | 66                          |   | 73              |   | 76              |   | 82            |   | 81            |   |
| 240-98276-2        | 03:14 | 70                          |   | 73              |   | 77              |   | 83            |   | 85            |   |
| 240-98276-3        | 03:19 | 71                          |   | 74              |   | 79              |   | 85            |   | 87            |   |
| 240-98276-4        | 03:23 | 70                          |   | 75              |   | 79              |   | 84            |   | 85            |   |
| CCV 240-336877/226 | 03:27 | 78                          |   | 79              |   | 85              |   | 93            |   | 93            |   |
| CCB 240-336877/227 | 03:32 | 81                          |   | 80              |   | 86              |   | 98            |   | 95            |   |
| 240-98276-5        | 03:36 | 70                          |   | 74              |   | 80              |   | 82            |   | 84            |   |
| 240-98276-6        | 03:41 | 69                          |   | 73              |   | 79              |   | 84            |   | 85            |   |
| 240-98276-7        | 03:45 | 70                          |   | 75              |   | 79              |   | 83            |   | 84            |   |
| 240-98276-8        | 03:50 | 70                          |   | 76              |   | 79              |   | 84            |   | 85            |   |
| 240-98276-9        | 03:54 | 71                          |   | 77              |   | 81              |   | 84            |   | 91            |   |
| 240-98276-10       | 03:59 | 70                          |   | 74              |   | 79              |   | 82            |   | 82            |   |
| 240-98276-11       | 04:03 | 69                          |   | 72              |   | 77              |   | 81            |   | 81            |   |
| 240-98276-12       | 04:08 | 69                          |   | 73              |   | 78              |   | 83            |   | 82            |   |
| 240-98276-13       | 04:12 | 70                          |   | 74              |   | 79              |   | 84            |   | 85            |   |
| 240-98276-14       | 04:17 | 70                          |   | 76              |   | 80              |   | 86            |   | 88            |   |
| CCV 240-336877/238 | 04:21 | 76                          |   | 79              |   | 82              |   | 94            |   | 93            |   |
| CCB 240-336877/239 | 04:25 | 77                          |   | 78              |   | 83              |   | 97            |   | 94            |   |
| 240-98276-15       | 04:30 | 69                          |   | 73              |   | 77              |   | 83            |   | 84            |   |
| 240-98276-16       | 04:34 | 69                          |   | 73              |   | 77              |   | 82            |   | 84            |   |
| 240-98276-17       | 04:39 | 69                          |   | 73              |   | 77              |   | 83            |   | 84            |   |
| 240-98276-18       | 04:43 | 69                          |   | 74              |   | 78              |   | 82            |   | 85            |   |
| 240-98276-19       | 04:48 | 69                          |   | 74              |   | 82              |   | 84            |   | 86            |   |
| 240-98276-20       | 04:52 | 69                          |   | 74              |   | 79              |   | 82            |   | 84            |   |
| CCV 240-336877/246 | 04:57 | 75                          |   | 78              |   | 82              |   | 89            |   | 90            |   |
| CCB 240-336877/247 | 05:01 | 79                          |   | 78              |   | 84              |   | 96            |   | 95            |   |

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

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICP-MS Instrument ID: I10

Start Date: 07/17/2018 End Date: 07/18/2018

| Lab Sample ID        | Time  | Internal Standards %RI For: |   |            |   |            |   |         |   |         |   |
|----------------------|-------|-----------------------------|---|------------|---|------------|---|---------|---|---------|---|
|                      |       | Element Tb                  | Q | Element Ho | Q | Element Bi | Q | Element | Q | Element | Q |
| STD1 240-336877/3 IC | 10:52 | 100                         |   | 101        |   | 99         |   |         |   |         |   |
| STD2 240-336877/4 IC | 10:56 | 97                          |   | 101        |   | 94         |   |         |   |         |   |
| STD3 240-336877/5 IC | 11:00 | 96                          |   | 99         |   | 92         |   |         |   |         |   |
| STD4 240-336877/6 IC | 11:05 | 99                          |   | 104        |   | 100        |   |         |   |         |   |
| ICV 240-336877/7     | 11:09 | 99                          |   | 102        |   | 95         |   |         |   |         |   |
| ICB 240-336877/8     | 11:14 | 100                         |   | 104        |   | 97         |   |         |   |         |   |
| ICVL 240-336877/9    | 11:18 | 102                         |   | 104        |   | 100        |   |         |   |         |   |
| ICSA 240-336877/10   | 11:23 | 94                          |   | 98         |   | 89         |   |         |   |         |   |
| ICSAB 240-336877/11  | 11:27 | 96                          |   | 99         |   | 92         |   |         |   |         |   |
| ICSA 240-336877/134  | 20:37 | 94                          |   | 99         |   | 90         |   |         |   |         |   |
| ICSAB 240-336877/135 | 20:41 | 93                          |   | 100        |   | 90         |   |         |   |         |   |
| CCV 240-336877/185   | 00:24 | 97                          |   | 101        |   | 93         |   |         |   |         |   |
| CCB 240-336877/186   | 00:29 | 101                         |   | 101        |   | 99         |   |         |   |         |   |
| MB 240-335639/1-A    | 00:38 | 95                          |   | 98         |   | 96         |   |         |   |         |   |
| LCS 240-335639/2-A   | 00:42 | 94                          |   | 97         |   | 92         |   |         |   |         |   |
| 240-98276-21         | 00:47 | 88                          |   | 91         |   | 80         |   |         |   |         |   |
| 240-98276-21 SD      | 00:51 | 95                          |   | 99         |   | 91         |   |         |   |         |   |
| 240-98276-21 MS      | 01:00 | 93                          |   | 96         |   | 84         |   |         |   |         |   |
| 240-98276-21 MSD     | 01:05 | 93                          |   | 97         |   | 84         |   |         |   |         |   |
| 240-98276-22         | 01:09 | 92                          |   | 98         |   | 84         |   |         |   |         |   |
| 240-98276-23         | 01:13 | 91                          |   | 97         |   | 84         |   |         |   |         |   |
| CCV 240-336877/197   | 01:18 | 100                         |   | 106        |   | 96         |   |         |   |         |   |
| CCB 240-336877/198   | 01:22 | 102                         |   | 106        |   | 100        |   |         |   |         |   |
| 240-98276-24         | 01:27 | 93                          |   | 98         |   | 85         |   |         |   |         |   |
| 240-98276-25         | 01:31 | 92                          |   | 99         |   | 86         |   |         |   |         |   |
| 240-98276-26         | 01:36 | 94                          |   | 99         |   | 87         |   |         |   |         |   |
| 240-98276-27         | 01:40 | 93                          |   | 97         |   | 88         |   |         |   |         |   |
| 240-98276-28         | 01:45 | 92                          |   | 95         |   | 84         |   |         |   |         |   |
| 240-98276-29         | 01:49 | 91                          |   | 95         |   | 85         |   |         |   |         |   |
| 240-98276-30         | 01:54 | 90                          |   | 95         |   | 85         |   |         |   |         |   |
| 240-98276-31         | 01:58 | 92                          |   | 96         |   | 83         |   |         |   |         |   |
| 240-98276-32         | 02:03 | 92                          |   | 98         |   | 83         |   |         |   |         |   |
| 240-98276-33         | 02:07 | 93                          |   | 100        |   | 86         |   |         |   |         |   |
| CCV 240-336877/209   | 02:12 | 101                         |   | 109        |   | 97         |   |         |   |         |   |
| CCB 240-336877/210   | 02:16 | 102                         |   | 109        |   | 102        |   |         |   |         |   |
| 240-98276-34         | 02:20 | 90                          |   | 98         |   | 86         |   |         |   |         |   |
| 240-98276-35         | 02:25 | 91                          |   | 97         |   | 85         |   |         |   |         |   |
| 240-98276-36         | 02:29 | 92                          |   | 96         |   | 84         |   |         |   |         |   |

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

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICP-MS Instrument ID: I10

Start Date: 07/17/2018 End Date: 07/18/2018

| Lab Sample ID      | Time  | Internal Standards %RI For: |   |            |   |            |   |         |   |         |   |
|--------------------|-------|-----------------------------|---|------------|---|------------|---|---------|---|---------|---|
|                    |       | Element Tb                  | Q | Element Ho | Q | Element Bi | Q | Element | Q | Element | Q |
| CCV 240-336877/214 | 02:34 | 98                          |   | 104        |   | 95         |   |         |   |         |   |
| CCB 240-336877/215 | 02:38 | 99                          |   | 103        |   | 99         |   |         |   |         |   |
| MB 240-335644/1-A  | 02:43 | 95                          |   | 101        |   | 96         |   |         |   |         |   |
| LCS 240-335644/2-A | 02:47 | 93                          |   | 99         |   | 93         |   |         |   |         |   |
| 240-98276-1        | 02:52 | 89                          |   | 93         |   | 82         |   |         |   |         |   |
| 240-98276-1 SD     | 02:56 | 95                          |   | 102        |   | 94         |   |         |   |         |   |
| 240-98276-1 MS     | 03:05 | 89                          |   | 93         |   | 81         |   |         |   |         |   |
| 240-98276-1 MSD    | 03:10 | 90                          |   | 96         |   | 84         |   |         |   |         |   |
| 240-98276-2        | 03:14 | 91                          |   | 98         |   | 85         |   |         |   |         |   |
| 240-98276-3        | 03:19 | 95                          |   | 100        |   | 86         |   |         |   |         |   |
| 240-98276-4        | 03:23 | 93                          |   | 99         |   | 86         |   |         |   |         |   |
| CCV 240-336877/226 | 03:27 | 99                          |   | 105        |   | 96         |   |         |   |         |   |
| CCB 240-336877/227 | 03:32 | 100                         |   | 107        |   | 100        |   |         |   |         |   |
| 240-98276-5        | 03:36 | 90                          |   | 95         |   | 84         |   |         |   |         |   |
| 240-98276-6        | 03:41 | 92                          |   | 98         |   | 86         |   |         |   |         |   |
| 240-98276-7        | 03:45 | 93                          |   | 99         |   | 85         |   |         |   |         |   |
| 240-98276-8        | 03:50 | 92                          |   | 96         |   | 86         |   |         |   |         |   |
| 240-98276-9        | 03:54 | 97                          |   | 101        |   | 90         |   |         |   |         |   |
| 240-98276-10       | 03:59 | 90                          |   | 94         |   | 84         |   |         |   |         |   |
| 240-98276-11       | 04:03 | 89                          |   | 94         |   | 83         |   |         |   |         |   |
| 240-98276-12       | 04:08 | 90                          |   | 96         |   | 86         |   |         |   |         |   |
| 240-98276-13       | 04:12 | 92                          |   | 98         |   | 85         |   |         |   |         |   |
| 240-98276-14       | 04:17 | 95                          |   | 102        |   | 88         |   |         |   |         |   |
| CCV 240-336877/238 | 04:21 | 102                         |   | 108        |   | 97         |   |         |   |         |   |
| CCB 240-336877/239 | 04:25 | 102                         |   | 106        |   | 99         |   |         |   |         |   |
| 240-98276-15       | 04:30 | 92                          |   | 96         |   | 83         |   |         |   |         |   |
| 240-98276-16       | 04:34 | 92                          |   | 98         |   | 84         |   |         |   |         |   |
| 240-98276-17       | 04:39 | 93                          |   | 97         |   | 86         |   |         |   |         |   |
| 240-98276-18       | 04:43 | 92                          |   | 97         |   | 85         |   |         |   |         |   |
| 240-98276-19       | 04:48 | 94                          |   | 98         |   | 86         |   |         |   |         |   |
| 240-98276-20       | 04:52 | 91                          |   | 95         |   | 83         |   |         |   |         |   |
| CCV 240-336877/246 | 04:57 | 96                          |   | 103        |   | 95         |   |         |   |         |   |
| CCB 240-336877/247 | 05:01 | 99                          |   | 103        |   | 100        |   |         |   |         |   |

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTMSICVW\_00084 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW\_00212

| Analyte           | ICV 240-336877/7<br>07/17/2018 11:09 |   |       |     | CCV 240-336877/197<br>07/18/2018 01:18 |   |       |     | CCV 240-336877/209<br>07/18/2018 02:12 |   |       |     |
|-------------------|--------------------------------------|---|-------|-----|----------------------------------------|---|-------|-----|----------------------------------------|---|-------|-----|
|                   | Found                                | C | True  | %R  | Found                                  | C | True  | %R  | Found                                  | C | True  | %R  |
| <b>Antimony</b>   | 40.2                                 |   | 40.0  | 100 | 47.1                                   |   | 50.0  | 94  | 46.6                                   |   | 50.0  | 93  |
| <b>Arsenic</b>    | 40.8                                 |   | 40.0  | 102 | 53.6                                   |   | 50.0  | 107 | 53.2                                   |   | 50.0  | 106 |
| <b>Barium</b>     | 40.6                                 |   | 40.0  | 101 | 51.6                                   |   | 50.0  | 103 | 51.3                                   |   | 50.0  | 103 |
| <b>Beryllium</b>  | 40.5                                 |   | 40.0  | 101 | 46.4                                   |   | 50.0  | 93  | 45.2                                   |   | 50.0  | 90  |
| <b>Cadmium</b>    | 41.3                                 |   | 40.0  | 103 | 50.9                                   |   | 50.0  | 102 | 51.3                                   |   | 50.0  | 103 |
| <b>Calcium</b>    | 19600                                |   | 20000 | 98  | 23700                                  |   | 25000 | 95  | 23400                                  |   | 25000 | 94  |
| <b>Chromium</b>   | 40.2                                 |   | 40.0  | 100 | 51.7                                   |   | 50.0  | 103 | 51.0                                   |   | 50.0  | 102 |
| <b>Cobalt</b>     | 40.6                                 |   | 40.0  | 101 | 53.6                                   |   | 50.0  | 107 | 53.0                                   |   | 50.0  | 106 |
| <b>Copper</b>     | 41.7                                 |   | 40.0  | 104 | 54.8                                   |   | 50.0  | 110 | 53.8                                   |   | 50.0  | 108 |
| <b>Lead</b>       | 41.0                                 |   | 40.0  | 103 | 47.2                                   |   | 50.0  | 94  | 46.3                                   |   | 50.0  | 93  |
| <b>Magnesium</b>  | 20000                                |   | 20000 | 100 | 24600                                  |   | 25000 | 99  | 24400                                  |   | 25000 | 98  |
| <b>Molybdenum</b> | 41.2                                 |   | 40.0  | 103 | 48.5                                   |   | 50.0  | 97  | 47.9                                   |   | 50.0  | 96  |
| <b>Nickel</b>     | 40.3                                 |   | 40.0  | 101 | 53.4                                   |   | 50.0  | 107 | 52.6                                   |   | 50.0  | 105 |
| <b>Selenium</b>   | 39.9                                 |   | 40.0  | 100 | 53.1                                   |   | 50.0  | 106 | 51.5                                   |   | 50.0  | 103 |
| <b>Silver</b>     | 41.1                                 |   | 40.0  | 103 | 48.7                                   |   | 50.0  | 97  | 47.8                                   |   | 50.0  | 96  |
| <b>Thallium</b>   | 40.0                                 |   | 40.0  | 100 | 47.2                                   |   | 50.0  | 94  | 46.2                                   |   | 50.0  | 92  |
| <b>Tungsten</b>   | 40.0                                 |   | 40.0  | 100 | 50.5                                   |   | 50.0  | 101 | 50.1                                   |   | 50.0  | 100 |
| <b>Vanadium</b>   | 39.9                                 |   | 40.0  | 100 | 50.5                                   |   | 50.0  | 101 | 49.8                                   |   | 50.0  | 100 |
| <b>Zinc</b>       | 41.9                                 |   | 40.0  | 105 | 53.4                                   |   | 50.0  | 107 | 52.7                                   |   | 50.0  | 105 |

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

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTMSICVW\_00084 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW\_00212

| Analyte           | CCV 240-336877/226<br>07/18/2018 03:27 |   |       |     | CCV 240-336877/238<br>07/18/2018 04:21 |   |       |     |       |   |      |    |
|-------------------|----------------------------------------|---|-------|-----|----------------------------------------|---|-------|-----|-------|---|------|----|
|                   | Found                                  | C | True  | %R  | Found                                  | C | True  | %R  | Found | C | True | %R |
| <b>Antimony</b>   | 46.9                                   |   | 50.0  | 94  | 45.7                                   |   | 50.0  | 91  |       |   |      |    |
| <b>Arsenic</b>    | 54.1                                   |   | 50.0  | 108 | 53.2                                   |   | 50.0  | 106 |       |   |      |    |
| <b>Barium</b>     | 50.6                                   |   | 50.0  | 101 | 51.6                                   |   | 50.0  | 103 |       |   |      |    |
| <b>Beryllium</b>  | 45.1                                   |   | 50.0  | 90  |                                        |   |       |     |       |   |      |    |
| <b>Cadmium</b>    | 50.7                                   |   | 50.0  | 101 | 50.7                                   |   | 50.0  | 101 |       |   |      |    |
| <b>Calcium</b>    | 23800                                  |   | 25000 | 95  | 23400                                  |   | 25000 | 94  |       |   |      |    |
| <b>Chromium</b>   | 51.8                                   |   | 50.0  | 104 | 51.1                                   |   | 50.0  | 102 |       |   |      |    |
| <b>Cobalt</b>     | 54.0                                   |   | 50.0  | 108 | 53.4                                   |   | 50.0  | 107 |       |   |      |    |
| <b>Copper</b>     | 54.5                                   |   | 50.0  | 109 | 54.0                                   |   | 50.0  | 108 |       |   |      |    |
| <b>Lead</b>       | 47.1                                   |   | 50.0  | 94  | 46.4                                   |   | 50.0  | 93  |       |   |      |    |
| <b>Magnesium</b>  | 24700                                  |   | 25000 | 99  | 24400                                  |   | 25000 | 98  |       |   |      |    |
| <b>Molybdenum</b> | 49.0                                   |   | 50.0  | 98  | 48.2                                   |   | 50.0  | 96  |       |   |      |    |
| <b>Nickel</b>     | 53.3                                   |   | 50.0  | 107 | 52.6                                   |   | 50.0  | 105 |       |   |      |    |
| <b>Selenium</b>   | 53.8                                   |   | 50.0  | 108 | 52.0                                   |   | 50.0  | 104 |       |   |      |    |
| <b>Silver</b>     | 49.0                                   |   | 50.0  | 98  | 48.6                                   |   | 50.0  | 97  |       |   |      |    |
| <b>Thallium</b>   | 46.9                                   |   | 50.0  | 94  | 46.4                                   |   | 50.0  | 93  |       |   |      |    |
| <b>Tungsten</b>   | 49.9                                   |   | 50.0  | 100 | 49.6                                   |   | 50.0  | 99  |       |   |      |    |
| <b>Vanadium</b>   | 50.8                                   |   | 50.0  | 102 | 49.6                                   |   | 50.0  | 99  |       |   |      |    |
| <b>Zinc</b>       | 54.0                                   |   | 50.0  | 108 | 53.7                                   |   | 50.0  | 107 |       |   |      |    |

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

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTMSICVW\_00084

Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW\_00213

| Analyte           | ICV 240-336877/7<br>07/17/2018 11:09 |   |       |     | CCV 240-336877/185<br>07/18/2018 00:24 |   |       |     | CCV 240-336877/214<br>07/18/2018 02:34 |   |       |     |
|-------------------|--------------------------------------|---|-------|-----|----------------------------------------|---|-------|-----|----------------------------------------|---|-------|-----|
|                   | Found                                | C | True  | %R  | Found                                  | C | True  | %R  | Found                                  | C | True  | %R  |
| <b>Antimony</b>   | 40.2                                 |   | 40.0  | 100 | 47.0                                   |   | 50.0  | 94  | 46.7                                   |   | 50.0  | 93  |
| <b>Arsenic</b>    | 40.8                                 |   | 40.0  | 102 | 53.9                                   |   | 50.0  | 108 | 52.5                                   |   | 50.0  | 105 |
| <b>Barium</b>     | 40.6                                 |   | 40.0  | 101 | 51.5                                   |   | 50.0  | 103 | 51.3                                   |   | 50.0  | 103 |
| <b>Beryllium</b>  | 40.5                                 |   | 40.0  | 101 | 45.2                                   |   | 50.0  | 90  |                                        |   |       |     |
| <b>Cadmium</b>    | 41.3                                 |   | 40.0  | 103 | 51.4                                   |   | 50.0  | 103 | 51.6                                   |   | 50.0  | 103 |
| <b>Calcium</b>    | 19600                                |   | 20000 | 98  | 23900                                  |   | 25000 | 96  | 23200                                  |   | 25000 | 93  |
| <b>Chromium</b>   | 40.2                                 |   | 40.0  | 100 | 52.2                                   |   | 50.0  | 104 | 50.4                                   |   | 50.0  | 101 |
| <b>Cobalt</b>     | 40.6                                 |   | 40.0  | 101 | 53.8                                   |   | 50.0  | 108 | 52.1                                   |   | 50.0  | 104 |
| <b>Copper</b>     | 41.7                                 |   | 40.0  | 104 | 54.8                                   |   | 50.0  | 110 | 52.7                                   |   | 50.0  | 105 |
| <b>Lead</b>       | 41.0                                 |   | 40.0  | 103 | 48.4                                   |   | 50.0  | 97  | 47.1                                   |   | 50.0  | 94  |
| <b>Magnesium</b>  | 20000                                |   | 20000 | 100 | 24600                                  |   | 25000 | 98  | 24100                                  |   | 25000 | 96  |
| <b>Molybdenum</b> | 41.2                                 |   | 40.0  | 103 | 50.0                                   |   | 50.0  | 100 | 49.0                                   |   | 50.0  | 98  |
| <b>Nickel</b>     | 40.3                                 |   | 40.0  | 101 | 54.1                                   |   | 50.0  | 108 | 51.6                                   |   | 50.0  | 103 |
| <b>Selenium</b>   | 39.9                                 |   | 40.0  | 100 | 52.9                                   |   | 50.0  | 106 | 51.5                                   |   | 50.0  | 103 |
| <b>Silver</b>     | 41.1                                 |   | 40.0  | 103 | 50.0                                   |   | 50.0  | 100 | 48.4                                   |   | 50.0  | 97  |
| <b>Thallium</b>   | 40.0                                 |   | 40.0  | 100 | 48.4                                   |   | 50.0  | 97  | 47.0                                   |   | 50.0  | 94  |
| <b>Tungsten</b>   | 40.0                                 |   | 40.0  | 100 | 50.2                                   |   | 50.0  | 100 | 49.4                                   |   | 50.0  | 99  |
| <b>Vanadium</b>   | 39.9                                 |   | 40.0  | 100 | 51.5                                   |   | 50.0  | 103 | 49.4                                   |   | 50.0  | 99  |
| <b>Zinc</b>       | 41.9                                 |   | 40.0  | 105 | 54.3                                   |   | 50.0  | 109 | 52.3                                   |   | 50.0  | 105 |

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



2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTMSICVW\_00084 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW\_00213

| Analyte           | CCV 240-336877/246<br>07/18/2018 04:57 |   |       |     |       |   |      |    |       |   |      |    |
|-------------------|----------------------------------------|---|-------|-----|-------|---|------|----|-------|---|------|----|
|                   | Found                                  | C | True  | %R  | Found | C | True | %R | Found | C | True | %R |
| <b>Antimony</b>   | 46.6                                   |   | 50.0  | 93  |       |   |      |    |       |   |      |    |
| <b>Arsenic</b>    | 52.7                                   |   | 50.0  | 105 |       |   |      |    |       |   |      |    |
| <b>Barium</b>     | 50.7                                   |   | 50.0  | 101 |       |   |      |    |       |   |      |    |
| <b>Beryllium</b>  |                                        |   |       |     |       |   |      |    |       |   |      |    |
| <b>Cadmium</b>    | 50.1                                   |   | 50.0  | 100 |       |   |      |    |       |   |      |    |
| <b>Calcium</b>    | 23300                                  |   | 25000 | 93  |       |   |      |    |       |   |      |    |
| <b>Chromium</b>   | 50.8                                   |   | 50.0  | 102 |       |   |      |    |       |   |      |    |
| <b>Cobalt</b>     | 52.8                                   |   | 50.0  | 106 |       |   |      |    |       |   |      |    |
| <b>Copper</b>     | 53.4                                   |   | 50.0  | 107 |       |   |      |    |       |   |      |    |
| <b>Lead</b>       | 47.0                                   |   | 50.0  | 94  |       |   |      |    |       |   |      |    |
| <b>Magnesium</b>  | 24000                                  |   | 25000 | 96  |       |   |      |    |       |   |      |    |
| <b>Molybdenum</b> | 49.1                                   |   | 50.0  | 98  |       |   |      |    |       |   |      |    |
| <b>Nickel</b>     | 52.5                                   |   | 50.0  | 105 |       |   |      |    |       |   |      |    |
| <b>Selenium</b>   | 52.2                                   |   | 50.0  | 104 |       |   |      |    |       |   |      |    |
| <b>Silver</b>     | 48.8                                   |   | 50.0  | 98  |       |   |      |    |       |   |      |    |
| <b>Thallium</b>   | 47.3                                   |   | 50.0  | 95  |       |   |      |    |       |   |      |    |
| <b>Tungsten</b>   | 50.6                                   |   | 50.0  | 101 |       |   |      |    |       |   |      |    |
| <b>Vanadium</b>   | 49.9                                   |   | 50.0  | 100 |       |   |      |    |       |   |      |    |
| <b>Zinc</b>       | 52.5                                   |   | 50.0  | 105 |       |   |      |    |       |   |      |    |

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

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTMSCRI6020AW\_00068

Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW\_00212

| Analyte           | ICVL 240-336877/9<br>07/17/2018 11:18 |   |      |     | CCV 240-336877/197<br>07/18/2018 01:18 |   |       |     | CCV 240-336877/209<br>07/18/2018 02:12 |   |       |     |
|-------------------|---------------------------------------|---|------|-----|----------------------------------------|---|-------|-----|----------------------------------------|---|-------|-----|
|                   | Found                                 | C | True | %R  | Found                                  | C | True  | %R  | Found                                  | C | True  | %R  |
| <b>Antimony</b>   | 1.97                                  | J | 2.00 | 98  | 47.1                                   |   | 50.0  | 94  | 46.6                                   |   | 50.0  | 93  |
| <b>Arsenic</b>    | 4.89                                  | J | 5.00 | 98  | 53.6                                   |   | 50.0  | 107 | 53.2                                   |   | 50.0  | 106 |
| <b>Barium</b>     | 4.95                                  | J | 5.00 | 99  | 51.6                                   |   | 50.0  | 103 | 51.3                                   |   | 50.0  | 103 |
| <b>Beryllium</b>  | 0.831                                 | J | 1.00 | 83  | 46.4                                   |   | 50.0  | 93  | 45.2                                   |   | 50.0  | 90  |
| <b>Cadmium</b>    | 1.03                                  |   | 1.00 | 103 | 50.9                                   |   | 50.0  | 102 | 51.3                                   |   | 50.0  | 103 |
| <b>Calcium</b>    | 973                                   | J | 1000 | 97  | 23700                                  |   | 25000 | 95  | 23400                                  |   | 25000 | 94  |
| <b>Chromium</b>   | 1.89                                  | J | 2.00 | 94  | 51.7                                   |   | 50.0  | 103 | 51.0                                   |   | 50.0  | 102 |
| <b>Cobalt</b>     | 0.984                                 | J | 1.00 | 98  | 53.6                                   |   | 50.0  | 107 | 53.0                                   |   | 50.0  | 106 |
| <b>Copper</b>     | 2.03                                  |   | 2.00 | 102 | 54.8                                   |   | 50.0  | 110 | 53.8                                   |   | 50.0  | 108 |
| <b>Lead</b>       | 1.05                                  |   | 1.00 | 105 | 47.2                                   |   | 50.0  | 94  | 46.3                                   |   | 50.0  | 93  |
| <b>Magnesium</b>  | 987                                   | J | 1000 | 99  | 24600                                  |   | 25000 | 99  | 24400                                  |   | 25000 | 98  |
| <b>Molybdenum</b> | 5.02                                  |   | 5.00 | 100 | 48.5                                   |   | 50.0  | 97  | 47.9                                   |   | 50.0  | 96  |
| <b>Nickel</b>     | 1.78                                  | J | 2.00 | 89  | 53.4                                   |   | 50.0  | 107 | 52.6                                   |   | 50.0  | 105 |
| <b>Selenium</b>   | 4.84                                  | J | 5.00 | 97  | 53.1                                   |   | 50.0  | 106 | 51.5                                   |   | 50.0  | 103 |
| <b>Silver</b>     | 0.975                                 | J | 1.00 | 98  | 48.7                                   |   | 50.0  | 97  | 47.8                                   |   | 50.0  | 96  |
| <b>Thallium</b>   | 1.03                                  |   | 1.00 | 103 | 47.2                                   |   | 50.0  | 94  | 46.2                                   |   | 50.0  | 92  |
| <b>Tungsten</b>   | 9.66                                  | J | 10.0 | 97  | 50.5                                   |   | 50.0  | 101 | 50.1                                   |   | 50.0  | 100 |
| <b>Vanadium</b>   | 4.87                                  | J | 5.00 | 97  | 50.5                                   |   | 50.0  | 101 | 49.8                                   |   | 50.0  | 100 |
| <b>Zinc</b>       | 19.3                                  | J | 20.0 | 97  | 53.4                                   |   | 50.0  | 107 | 52.7                                   |   | 50.0  | 105 |

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

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTMSCRI6020AW\_00068

Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW\_00213

| Analyte           | ICVL 240-336877/9<br>07/17/2018 11:18 |   |      |     | CCV 240-336877/185<br>07/18/2018 00:24 |   |       |     | CCV 240-336877/214<br>07/18/2018 02:34 |   |       |     |
|-------------------|---------------------------------------|---|------|-----|----------------------------------------|---|-------|-----|----------------------------------------|---|-------|-----|
|                   | Found                                 | C | True | %R  | Found                                  | C | True  | %R  | Found                                  | C | True  | %R  |
| <b>Antimony</b>   | 1.97                                  | J | 2.00 | 98  | 47.0                                   |   | 50.0  | 94  | 46.7                                   |   | 50.0  | 93  |
| <b>Arsenic</b>    | 4.89                                  | J | 5.00 | 98  | 53.9                                   |   | 50.0  | 108 | 52.5                                   |   | 50.0  | 105 |
| <b>Barium</b>     | 4.95                                  | J | 5.00 | 99  | 51.5                                   |   | 50.0  | 103 | 51.3                                   |   | 50.0  | 103 |
| <b>Beryllium</b>  | 0.831                                 | J | 1.00 | 83  | 45.2                                   |   | 50.0  | 90  |                                        |   |       |     |
| <b>Cadmium</b>    | 1.03                                  |   | 1.00 | 103 | 51.4                                   |   | 50.0  | 103 | 51.6                                   |   | 50.0  | 103 |
| <b>Calcium</b>    | 973                                   | J | 1000 | 97  | 23900                                  |   | 25000 | 96  | 23200                                  |   | 25000 | 93  |
| <b>Chromium</b>   | 1.89                                  | J | 2.00 | 94  | 52.2                                   |   | 50.0  | 104 | 50.4                                   |   | 50.0  | 101 |
| <b>Cobalt</b>     | 0.984                                 | J | 1.00 | 98  | 53.8                                   |   | 50.0  | 108 | 52.1                                   |   | 50.0  | 104 |
| <b>Copper</b>     | 2.03                                  |   | 2.00 | 102 | 54.8                                   |   | 50.0  | 110 | 52.7                                   |   | 50.0  | 105 |
| <b>Lead</b>       | 1.05                                  |   | 1.00 | 105 | 48.4                                   |   | 50.0  | 97  | 47.1                                   |   | 50.0  | 94  |
| <b>Magnesium</b>  | 987                                   | J | 1000 | 99  | 24600                                  |   | 25000 | 98  | 24100                                  |   | 25000 | 96  |
| <b>Molybdenum</b> | 5.02                                  |   | 5.00 | 100 | 50.0                                   |   | 50.0  | 100 | 49.0                                   |   | 50.0  | 98  |
| <b>Nickel</b>     | 1.78                                  | J | 2.00 | 89  | 54.1                                   |   | 50.0  | 108 | 51.6                                   |   | 50.0  | 103 |
| <b>Selenium</b>   | 4.84                                  | J | 5.00 | 97  | 52.9                                   |   | 50.0  | 106 | 51.5                                   |   | 50.0  | 103 |
| <b>Silver</b>     | 0.975                                 | J | 1.00 | 98  | 50.0                                   |   | 50.0  | 100 | 48.4                                   |   | 50.0  | 97  |
| <b>Thallium</b>   | 1.03                                  |   | 1.00 | 103 | 48.4                                   |   | 50.0  | 97  | 47.0                                   |   | 50.0  | 94  |
| <b>Tungsten</b>   | 9.66                                  | J | 10.0 | 97  | 50.2                                   |   | 50.0  | 100 | 49.4                                   |   | 50.0  | 99  |
| <b>Vanadium</b>   | 4.87                                  | J | 5.00 | 97  | 51.5                                   |   | 50.0  | 103 | 49.4                                   |   | 50.0  | 99  |
| <b>Zinc</b>       | 19.3                                  | J | 20.0 | 97  | 54.3                                   |   | 50.0  | 109 | 52.3                                   |   | 50.0  | 105 |

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

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTMSCRI6020AW\_00068 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW\_00213

| Analyte           | CCV 240-336877/246<br>07/18/2018 04:57 |   |       |     |       |   |      |    |       |   |      |    |
|-------------------|----------------------------------------|---|-------|-----|-------|---|------|----|-------|---|------|----|
|                   | Found                                  | C | True  | %R  | Found | C | True | %R | Found | C | True | %R |
| <b>Antimony</b>   | 46.6                                   |   | 50.0  | 93  |       |   |      |    |       |   |      |    |
| <b>Arsenic</b>    | 52.7                                   |   | 50.0  | 105 |       |   |      |    |       |   |      |    |
| <b>Barium</b>     | 50.7                                   |   | 50.0  | 101 |       |   |      |    |       |   |      |    |
| <b>Beryllium</b>  |                                        |   |       |     |       |   |      |    |       |   |      |    |
| <b>Cadmium</b>    | 50.1                                   |   | 50.0  | 100 |       |   |      |    |       |   |      |    |
| <b>Calcium</b>    | 23300                                  |   | 25000 | 93  |       |   |      |    |       |   |      |    |
| <b>Chromium</b>   | 50.8                                   |   | 50.0  | 102 |       |   |      |    |       |   |      |    |
| <b>Cobalt</b>     | 52.8                                   |   | 50.0  | 106 |       |   |      |    |       |   |      |    |
| <b>Copper</b>     | 53.4                                   |   | 50.0  | 107 |       |   |      |    |       |   |      |    |
| <b>Lead</b>       | 47.0                                   |   | 50.0  | 94  |       |   |      |    |       |   |      |    |
| <b>Magnesium</b>  | 24000                                  |   | 25000 | 96  |       |   |      |    |       |   |      |    |
| <b>Molybdenum</b> | 49.1                                   |   | 50.0  | 98  |       |   |      |    |       |   |      |    |
| <b>Nickel</b>     | 52.5                                   |   | 50.0  | 105 |       |   |      |    |       |   |      |    |
| <b>Selenium</b>   | 52.2                                   |   | 50.0  | 104 |       |   |      |    |       |   |      |    |
| <b>Silver</b>     | 48.8                                   |   | 50.0  | 98  |       |   |      |    |       |   |      |    |
| <b>Thallium</b>   | 47.3                                   |   | 50.0  | 95  |       |   |      |    |       |   |      |    |
| <b>Tungsten</b>   | 50.6                                   |   | 50.0  | 101 |       |   |      |    |       |   |      |    |
| <b>Vanadium</b>   | 49.9                                   |   | 50.0  | 100 |       |   |      |    |       |   |      |    |
| <b>Zinc</b>       | 52.5                                   |   | 50.0  | 105 |       |   |      |    |       |   |      |    |

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

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Concentration Units: ug/L

| Analyte           | RL   | ICB 240-336877/8<br>07/17/2018 11:14 |   | CCB 240-336877/186<br>07/18/2018 00:29 |   | CCB 240-336877/198<br>07/18/2018 01:22 |   | CCB 240-336877/210<br>07/18/2018 02:16 |   |
|-------------------|------|--------------------------------------|---|----------------------------------------|---|----------------------------------------|---|----------------------------------------|---|
|                   |      | Found                                | C | Found                                  | C | Found                                  | C | Found                                  | C |
| <b>Antimony</b>   | 2.0  | 2.0                                  | U | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U |
| <b>Arsenic</b>    | 5.0  | 5.0                                  | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <b>Barium</b>     | 5.0  | 5.0                                  | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <b>Beryllium</b>  | 1.0  | 1.0                                  | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <b>Cadmium</b>    | 1.0  | 1.0                                  | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <b>Calcium</b>    | 1000 | 1000                                 | U | 1000                                   | U | 1000                                   | U | 1000                                   | U |
| <b>Chromium</b>   | 2.0  | 2.0                                  | U | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U |
| <b>Cobalt</b>     | 1.0  | 1.0                                  | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <b>Copper</b>     | 2.0  | 2.0                                  | U | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U |
| <b>Lead</b>       | 1.0  | 1.0                                  | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <b>Magnesium</b>  | 1000 | 1000                                 | U | 1000                                   | U | 1000                                   | U | 1000                                   | U |
| <b>Molybdenum</b> | 5.0  | 5.0                                  | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <b>Nickel</b>     | 2.0  | 2.0                                  | U | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U |
| <b>Selenium</b>   | 5.0  | 5.0                                  | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <b>Silver</b>     | 1.0  | 1.0                                  | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <b>Thallium</b>   | 1.0  | 1.0                                  | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <b>Tungsten</b>   | 10   | 10                                   | U | 10                                     | U | 10                                     | U | 10                                     | U |
| <b>Vanadium</b>   | 5.0  | 5.0                                  | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <b>Zinc</b>       | 20   | 20                                   | U | 20                                     | U | 20                                     | U | 20                                     | U |

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Concentration Units: ug/L

| Analyte           | RL   | CCB 240-336877/215<br>07/18/2018 02:38 |   | CCB 240-336877/227<br>07/18/2018 03:32 |   | CCB 240-336877/239<br>07/18/2018 04:25 |   | CCB 240-336877/247<br>07/18/2018 05:01 |   |
|-------------------|------|----------------------------------------|---|----------------------------------------|---|----------------------------------------|---|----------------------------------------|---|
|                   |      | Found                                  | C | Found                                  | C | Found                                  | C | Found                                  | C |
| <b>Antimony</b>   | 2.0  | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U |
| <b>Arsenic</b>    | 5.0  | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <b>Barium</b>     | 5.0  | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <b>Beryllium</b>  | 1.0  | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <b>Cadmium</b>    | 1.0  | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <b>Calcium</b>    | 1000 | 1000                                   | U | 1000                                   | U | 1000                                   | U | 1000                                   | U |
| <b>Chromium</b>   | 2.0  | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U |
| <b>Cobalt</b>     | 1.0  | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <b>Copper</b>     | 2.0  | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U |
| <b>Lead</b>       | 1.0  | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <b>Magnesium</b>  | 1000 | 1000                                   | U | 1000                                   | U | 1000                                   | U | 1000                                   | U |
| <b>Molybdenum</b> | 5.0  | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <b>Nickel</b>     | 2.0  | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U |
| <b>Selenium</b>   | 5.0  | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <b>Silver</b>     | 1.0  | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <b>Thallium</b>   | 1.0  | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <b>Tungsten</b>   | 10   | 10                                     | U | 10                                     | U | 10                                     | U | 10                                     | U |
| <b>Vanadium</b>   | 5.0  | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <b>Zinc</b>       | 20   | 20                                     | U | 20                                     | U | 20                                     | U | 20                                     | U |

Italicized analytes were not requested for this sequence.

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSA 240-336877/10 Instrument ID: I10  
 Lab File ID: 010ICSA.d ICS Source: MTMSICSAW\_00085  
 Concentration Units: ug/L

| Analyte           | True<br>Solution A | Found<br>Solution A | Percent<br>Recovery |
|-------------------|--------------------|---------------------|---------------------|
| <b>Antimony</b>   |                    | <b>0.0550</b>       |                     |
| <b>Arsenic</b>    |                    | <b>0.209</b>        |                     |
| <b>Barium</b>     |                    | <b>0.0440</b>       |                     |
| <b>Beryllium</b>  |                    | <b>-0.0140</b>      |                     |
| <b>Cadmium</b>    |                    | <b>0.360</b>        |                     |
| <b>Calcium</b>    | <b>50000</b>       | <b>48198</b>        | <b>96</b>           |
| <b>Chromium</b>   |                    | <b>0.0820</b>       |                     |
| <b>Cobalt</b>     |                    | <b>-0.0270</b>      |                     |
| <b>Copper</b>     |                    | <b>0.692</b>        |                     |
| <b>Lead</b>       |                    | <b>0.0780</b>       |                     |
| <b>Magnesium</b>  | <b>50000</b>       | <b>49301</b>        | <b>99</b>           |
| <b>Molybdenum</b> | <b>1000</b>        | <b>1027</b>         | <b>103</b>          |
| <b>Nickel</b>     |                    | <b>-0.177</b>       |                     |
| <b>Selenium</b>   |                    | <b>0.196</b>        |                     |
| <b>Silver</b>     |                    | <b>0.0150</b>       |                     |
| <b>Thallium</b>   |                    | <b>0.0030</b>       |                     |
| <b>Tungsten</b>   |                    | <b>0.185</b>        |                     |
| <b>Vanadium</b>   |                    | <b>0.0090</b>       |                     |
| <b>Zinc</b>       |                    | <b>1.38</b>         |                     |
| <i>Aluminum</i>   | <i>50000</i>       | <i>47555</i>        | <i>95</i>           |
| <i>Boron</i>      |                    | <i>-0.429</i>       |                     |
| <i>Iron</i>       | <i>50000</i>       | <i>48760</i>        | <i>98</i>           |
| <i>Lithium</i>    |                    | <i>0.288</i>        |                     |
| <i>Manganese</i>  |                    | <i>-0.256</i>       |                     |
| <i>Potassium</i>  | <i>50000</i>       | <i>48312</i>        | <i>97</i>           |
| <i>Sodium</i>     | <i>50000</i>       | <i>49327</i>        | <i>99</i>           |
| <i>Strontium</i>  |                    | <i>0.428</i>        |                     |
| <i>Tin</i>        |                    | <i>0.121</i>        |                     |
| <i>Titanium</i>   | <i>1000</i>        | <i>999</i>          | <i>100</i>          |

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

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSAB 240-336877/11 Instrument ID: I10  
 Lab File ID: 011ICAB.d ICS Source: MTMSICSABW\_00084  
 Concentration Units: ug/L

| Analyte           | True         | Found        |                  |
|-------------------|--------------|--------------|------------------|
|                   | Solution AB  | Solution AB  | Percent Recovery |
| <b>Antimony</b>   | <b>100</b>   | <b>98.2</b>  | <b>98</b>        |
| <b>Arsenic</b>    | <b>100</b>   | <b>101</b>   | <b>101</b>       |
| <b>Barium</b>     | <b>100</b>   | <b>98.4</b>  | <b>98</b>        |
| <b>Beryllium</b>  | <b>100</b>   | <b>103</b>   | <b>103</b>       |
| <b>Cadmium</b>    | <b>100</b>   | <b>98.5</b>  | <b>99</b>        |
| <b>Calcium</b>    | <b>50000</b> | <b>49516</b> | <b>99</b>        |
| <b>Chromium</b>   | <b>100</b>   | <b>97.8</b>  | <b>98</b>        |
| <b>Cobalt</b>     | <b>100</b>   | <b>99.0</b>  | <b>99</b>        |
| <b>Copper</b>     | <b>100</b>   | <b>99.0</b>  | <b>99</b>        |
| <b>Lead</b>       | <b>100</b>   | <b>98.7</b>  | <b>99</b>        |
| <b>Magnesium</b>  | <b>50000</b> | <b>49225</b> | <b>98</b>        |
| <b>Molybdenum</b> | <b>1100</b>  | <b>1136</b>  | <b>103</b>       |
| <b>Nickel</b>     | <b>100</b>   | <b>99.4</b>  | <b>99</b>        |
| <b>Selenium</b>   | <b>100</b>   | <b>101</b>   | <b>101</b>       |
| <b>Silver</b>     | <b>100</b>   | <b>99.6</b>  | <b>100</b>       |
| <b>Thallium</b>   | <b>100</b>   | <b>96.2</b>  | <b>96</b>        |
| <b>Tungsten</b>   | <b>100</b>   | <b>96.4</b>  | <b>96</b>        |
| <b>Vanadium</b>   | <b>100</b>   | <b>98.4</b>  | <b>98</b>        |
| <b>Zinc</b>       | <b>100</b>   | <b>98.9</b>  | <b>99</b>        |
| <i>Aluminum</i>   | <i>50000</i> | <i>47819</i> | <i>96</i>        |
| <i>Boron</i>      | <i>100</i>   | <i>98.9</i>  | <i>99</i>        |
| <i>Iron</i>       | <i>50000</i> | <i>48720</i> | <i>97</i>        |
| <i>Lithium</i>    | <i>100</i>   | <i>102</i>   | <i>102</i>       |
| <i>Manganese</i>  | <i>100</i>   | <i>96.4</i>  | <i>96</i>        |
| <i>Potassium</i>  | <i>50000</i> | <i>48771</i> | <i>98</i>        |
| <i>Sodium</i>     | <i>50000</i> | <i>49529</i> | <i>99</i>        |
| <i>Strontium</i>  | <i>100</i>   | <i>99.3</i>  | <i>99</i>        |
| <i>Tin</i>        | <i>100</i>   | <i>98.0</i>  | <i>98</i>        |
| <i>Titanium</i>   | <i>1100</i>  | <i>1111</i>  | <i>101</i>       |

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



4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSA 240-336877/134 Instrument ID: I10  
 Lab File ID: 134ICSA.d ICS Source: MTMSICSAW\_00085  
 Concentration Units: ug/L

| Analyte           | True<br>Solution A | Found<br>Solution A | Percent<br>Recovery |
|-------------------|--------------------|---------------------|---------------------|
| <b>Antimony</b>   |                    | <b>0.0640</b>       |                     |
| <b>Arsenic</b>    |                    | <b>0.196</b>        |                     |
| <b>Barium</b>     |                    | <b>0.0790</b>       |                     |
| <b>Beryllium</b>  |                    | <b>0.202</b>        |                     |
| <b>Cadmium</b>    |                    | <b>0.317</b>        |                     |
| <b>Calcium</b>    | <b>50000</b>       | <b>47870</b>        | <b>96</b>           |
| <b>Chromium</b>   |                    | <b>0.0510</b>       |                     |
| <b>Cobalt</b>     |                    | <b>0.0210</b>       |                     |
| <b>Copper</b>     |                    | <b>0.786</b>        |                     |
| <b>Lead</b>       |                    | <b>0.164</b>        |                     |
| <b>Magnesium</b>  | <b>50000</b>       | <b>47872</b>        | <b>96</b>           |
| <b>Molybdenum</b> | <b>1000</b>        | <b>1005</b>         | <b>100</b>          |
| <b>Nickel</b>     |                    | <b>-0.514</b>       |                     |
| <b>Selenium</b>   |                    | <b>0.308</b>        |                     |
| <b>Silver</b>     |                    | <b>0.0150</b>       |                     |
| <b>Thallium</b>   |                    | <b>0.0090</b>       |                     |
| <b>Tungsten</b>   |                    | <b>0.131</b>        |                     |
| <b>Vanadium</b>   |                    | <b>0.0400</b>       |                     |
| <b>Zinc</b>       |                    | <b>1.85</b>         |                     |
| <i>Aluminum</i>   | <i>50000</i>       | <i>44315</i>        | <i>89</i>           |
| <i>Iron</i>       | <i>50000</i>       | <i>49510</i>        | <i>99</i>           |
| <i>Lithium</i>    |                    | <i>-0.721</i>       |                     |
| <i>Manganese</i>  |                    | <i>0.244</i>        |                     |
| <i>Potassium</i>  | <i>50000</i>       | <i>46408</i>        | <i>93</i>           |
| <i>Sodium</i>     | <i>50000</i>       | <i>46992</i>        | <i>94</i>           |
| <i>Strontium</i>  |                    | <i>0.509</i>        |                     |
| <i>Tin</i>        |                    | <i>0.120</i>        |                     |
| <i>Titanium</i>   | <i>1000</i>        | <i>979</i>          | <i>98</i>           |

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

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSAB 240-336877/135 Instrument ID: I10  
 Lab File ID: 135ICAB.d ICS Source: MTMSICSABW\_00084  
 Concentration Units: ug/L

| Analyte           | True         | Found        |                  |
|-------------------|--------------|--------------|------------------|
|                   | Solution AB  | Solution AB  | Percent Recovery |
| <b>Antimony</b>   | <b>100</b>   | <b>97.7</b>  | <b>98</b>        |
| <b>Arsenic</b>    | <b>100</b>   | <b>104</b>   | <b>104</b>       |
| <b>Barium</b>     | <b>100</b>   | <b>98.2</b>  | <b>98</b>        |
| <b>Beryllium</b>  | <b>100</b>   | <b>95.7</b>  | <b>96</b>        |
| <b>Cadmium</b>    | <b>100</b>   | <b>98.8</b>  | <b>99</b>        |
| <b>Calcium</b>    | <b>50000</b> | <b>48619</b> | <b>97</b>        |
| <b>Chromium</b>   | <b>100</b>   | <b>99.0</b>  | <b>99</b>        |
| <b>Cobalt</b>     | <b>100</b>   | <b>102</b>   | <b>102</b>       |
| <b>Copper</b>     | <b>100</b>   | <b>102</b>   | <b>102</b>       |
| <b>Lead</b>       | <b>100</b>   | <b>95.0</b>  | <b>95</b>        |
| <b>Magnesium</b>  | <b>50000</b> | <b>48350</b> | <b>97</b>        |
| <b>Molybdenum</b> | <b>1100</b>  | <b>1113</b>  | <b>101</b>       |
| <b>Nickel</b>     | <b>100</b>   | <b>101</b>   | <b>101</b>       |
| <b>Selenium</b>   | <b>100</b>   | <b>102</b>   | <b>102</b>       |
| <b>Silver</b>     | <b>100</b>   | <b>98.2</b>  | <b>98</b>        |
| <b>Thallium</b>   | <b>100</b>   | <b>93.7</b>  | <b>94</b>        |
| <b>Tungsten</b>   | <b>100</b>   | <b>98.9</b>  | <b>99</b>        |
| <b>Vanadium</b>   | <b>100</b>   | <b>98.6</b>  | <b>99</b>        |
| <b>Zinc</b>       | <b>100</b>   | <b>103</b>   | <b>103</b>       |
| <i>Aluminum</i>   | <i>50000</i> | <i>45540</i> | <i>91</i>        |
| <i>Boron</i>      | <i>100</i>   | <i>134</i>   | <i>134</i>       |
| <i>Iron</i>       | <i>50000</i> | <i>50069</i> | <i>100</i>       |
| <i>Lithium</i>    | <i>100</i>   | <i>95.5</i>  | <i>95</i>        |
| <i>Manganese</i>  | <i>100</i>   | <i>96.6</i>  | <i>97</i>        |
| <i>Potassium</i>  | <i>50000</i> | <i>46823</i> | <i>94</i>        |
| <i>Sodium</i>     | <i>50000</i> | <i>48070</i> | <i>96</i>        |
| <i>Strontium</i>  | <i>100</i>   | <i>101</i>   | <i>101</i>       |
| <i>Tin</i>        | <i>100</i>   | <i>95.1</i>  | <i>95</i>        |
| <i>Titanium</i>   | <i>1100</i>  | <i>1088</i>  | <i>99</i>        |

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

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: I10 Analysis Method: 6020  
 Start Date: 07/19/2018 12:14 End Date: 07/20/2018 02:03

| Lab Sample Id        | D/F | T<br>y<br>p<br>e | Time  | Analytes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------|-----|------------------|-------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                      |     |                  |       | B<br>e   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 12:14 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICIS 240-337207/2    |     |                  | 12:19 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STD1 240-337207/3 IC | 1   |                  | 12:23 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STD2 240-337207/4 IC | 1   |                  | 12:28 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STD3 240-337207/5 IC | 1   |                  | 12:32 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STD4 240-337207/6 IC | 1   |                  | 12:37 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICV 240-337207/7     | 1   |                  | 12:41 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICB 240-337207/8     | 1   |                  | 12:46 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICVL 240-337207/9    | 1   |                  | 12:50 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICSA 240-337207/10   | 1   |                  | 12:54 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICSAB 240-337207/11  | 1   |                  | 12:59 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/12    |     |                  | 13:03 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/13    |     |                  | 13:08 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 13:20 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 13:25 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 13:29 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/17    |     |                  | 13:34 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/18    |     |                  | 13:38 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 13:43 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 13:47 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 13:52 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 13:56 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 14:00 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 14:05 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 14:09 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 14:14 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 14:18 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 14:23 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/29    |     |                  | 14:27 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/30    |     |                  | 14:32 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 14:36 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 14:41 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 14:45 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/34    |     |                  | 14:50 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/35    |     |                  | 14:54 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 240-337207/36   |     |                  | 14:59 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 15:03 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 15:07 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 15:12 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 15:16 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 15:21 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 15:25 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Instrument ID: I10

Analysis Method: 6020

Start Date: 07/19/2018 12:14

End Date: 07/20/2018 02:03

| Lab Sample Id      | D/F | T<br>y<br>p<br>e | Time  | Analytes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|-----|------------------|-------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                    |     |                  |       | B<br>e   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 15:30 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 15:34 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 15:39 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/46  |     |                  | 15:43 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/47  |     |                  | 15:48 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 15:52 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/49  |     |                  | 15:56 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/50  |     |                  | 16:01 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 240-337207/51 |     |                  | 16:05 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 16:10 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 16:14 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 16:19 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 16:23 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 16:28 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 16:32 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 16:37 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 16:41 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 16:46 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/61  |     |                  | 16:50 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/62  |     |                  | 16:55 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/63  |     |                  | 16:59 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/64  |     |                  | 17:03 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 17:08 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 17:12 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 17:17 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 17:21 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 17:26 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 17:30 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 17:35 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 17:39 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 17:43 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 17:48 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/75  |     |                  | 17:52 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/76  |     |                  | 17:57 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 18:01 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 18:06 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 18:10 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 18:15 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/81  |     |                  | 18:19 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/82  |     |                  | 18:24 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 240-337207/83 |     |                  | 18:28 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ             |     |                  | 18:32 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Instrument ID: I10 Analysis Method: 6020

Start Date: 07/19/2018 12:14 End Date: 07/20/2018 02:03

| Lab Sample Id       | D/F | T<br>y<br>p<br>e | Time  | Analytes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------|-----|------------------|-------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                     |     |                  |       | B<br>e   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 18:37 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 18:41 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 18:46 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 18:50 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 18:55 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 18:59 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 19:04 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 19:08 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/93   |     |                  | 19:13 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/94   |     |                  | 19:17 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 19:21 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 19:26 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 19:30 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 19:35 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 19:39 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 19:44 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 19:48 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 19:53 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 19:57 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 20:02 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/105  |     |                  | 20:06 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/106  |     |                  | 20:11 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 20:15 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/108  | 1   |                  | 20:19 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/109  | 1   |                  | 20:24 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 240-337207/110 |     |                  | 20:28 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-34        | 1   | D                | 20:33 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-35        | 1   | D                | 20:37 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-36        | 1   | D                | 20:42 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MB 240-335644/1-A   | 1   | R                | 20:46 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LCS 240-335644/2-A  | 1   | R                | 20:51 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-1         | 1   | D                | 20:55 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-1 SD      | 5   | D                | 21:00 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 21:04 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-1 MS      | 1   | D                | 21:08 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/120  | 1   |                  | 21:13 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/121  | 1   |                  | 21:17 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-1 MSD     | 1   | D                | 21:22 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-2         | 1   | D                | 21:26 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-3         | 1   | D                | 21:31 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-4         | 1   | D                | 21:35 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-5         | 1   | D                | 21:40 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: I10 Analysis Method: 6020  
 Start Date: 07/19/2018 12:14 End Date: 07/20/2018 02:03

| Lab Sample Id        | D/F | T<br>y<br>p<br>e | Time  | B<br>e | Analytes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------|-----|------------------|-------|--------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                      |     |                  |       |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-6          | 1   | D                | 21:44 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-7          | 1   | D                | 21:49 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-8          | 1   | D                | 21:53 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-9          | 1   | D                | 21:58 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-10         | 1   | D                | 22:02 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/132   | 1   |                  | 22:06 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/133   | 1   |                  | 22:11 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-11         | 1   | D                | 22:15 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-12         | 1   | D                | 22:20 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-13         | 1   | D                | 22:24 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-14         | 1   | D                | 22:29 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-15         | 1   | D                | 22:33 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-16         | 1   | D                | 22:38 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-17         | 1   | D                | 22:42 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-18         | 1   | D                | 22:46 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-19         | 1   | D                | 22:51 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-20         | 1   | D                | 22:55 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/144   | 1   |                  | 23:00 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/145   | 1   |                  | 23:04 | X      |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/146   |     |                  | 23:09 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/147   |     |                  | 23:13 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 23:18 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 23:22 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 23:27 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 23:31 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICSA 240-337207/152  |     |                  | 23:35 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICSAB 240-337207/153 |     |                  | 23:40 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 23:44 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 23:49 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 23:53 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 23:58 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 00:02 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 00:07 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/160   |     |                  | 00:11 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/161   |     |                  | 00:15 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 00:20 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 00:24 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 00:29 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 00:33 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 00:38 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 00:42 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ               |     |                  | 00:47 |        |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Instrument ID: I10 Analysis Method: 6020

Start Date: 07/19/2018 12:14 End Date: 07/20/2018 02:03

| Lab Sample Id       | D/F | T<br>y<br>p<br>e | Time  | Analytes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------|-----|------------------|-------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                     |     |                  |       | B<br>e   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 00:51 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 00:56 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 01:00 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/172  |     |                  | 01:04 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/173  |     |                  | 01:09 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 01:13 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 01:18 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/176  |     |                  | 01:22 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/177  |     |                  | 01:27 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 240-337207/178 |     |                  | 01:31 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 01:36 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 01:40 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 01:45 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/182  |     |                  | 01:49 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/183  |     |                  | 01:54 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-337207/184  |     |                  | 01:58 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-337207/185  |     |                  | 02:03 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Prep Types: \_\_\_\_\_  
D = Dissolved  
R = Total Recoverable

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

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICP-MS Instrument ID: I10

Start Date: 07/19/2018 End Date: 07/19/2018

| Lab Sample ID        | Time  | Internal Standards %RI For: |   |              |   |              |   |            |   |            |   |
|----------------------|-------|-----------------------------|---|--------------|---|--------------|---|------------|---|------------|---|
|                      |       | Element Li-6                | Q | Element Sc/1 | Q | Element Sc/2 | Q | Element Rh | Q | Element In | Q |
| STD1 240-337207/3 IC | 12:23 | 100                         |   | 100          |   | 102          |   | 97         |   | 100        |   |
| STD2 240-337207/4 IC | 12:28 | 97                          |   | 104          |   | 100          |   | 96         |   | 100        |   |
| STD3 240-337207/5 IC | 12:32 | 95                          |   | 102          |   | 98           |   | 93         |   | 98         |   |
| STD4 240-337207/6 IC | 12:37 | 98                          |   | 105          |   | 103          |   | 102        |   | 105        |   |
| ICV 240-337207/7     | 12:41 | 97                          |   | 103          |   | 99           |   | 96         |   | 101        |   |
| ICB 240-337207/8     | 12:46 | 101                         |   | 103          |   | 101          |   | 102        |   | 107        |   |
| ICVL 240-337207/9    | 12:50 | 97                          |   | 104          |   | 101          |   | 102        |   | 107        |   |
| ICSA 240-337207/10   | 12:54 | 93                          |   | 99           |   | 97           |   | 91         |   | 98         |   |
| ICSAB 240-337207/11  | 12:59 | 89                          |   | 102          |   | 100          |   | 93         |   | 99         |   |
| CCV 240-337207/108   | 20:19 | 95                          |   | 92           |   | 98           |   | 91         |   | 99         |   |
| CCB 240-337207/109   | 20:24 | 100                         |   | 95           |   | 103          |   | 99         |   | 104        |   |
| 240-98276-34         | 20:33 | 92                          |   | 88           |   | 98           |   | 83         |   | 90         |   |
| 240-98276-35         | 20:37 | 93                          |   | 93           |   | 100          |   | 85         |   | 91         |   |
| 240-98276-36         | 20:42 | 92                          |   | 92           |   | 97           |   | 86         |   | 91         |   |
| MB 240-335644/1-A    | 20:46 | 101                         |   | 94           |   | 102          |   | 95         |   | 96         |   |
| LCS 240-335644/2-A   | 20:51 | 91                          |   | 89           |   | 99           |   | 88         |   | 91         |   |
| 240-98276-1          | 20:55 | 92                          |   | 87           |   | 97           |   | 82         |   | 88         |   |
| 240-98276-1 SD       | 21:00 | 100                         |   | 94           |   | 104          |   | 92         |   | 95         |   |
| 240-98276-1 MS       | 21:08 | 88                          |   | 90           |   | 99           |   | 85         |   | 94         |   |
| CCV 240-337207/120   | 21:13 | 98                          |   | 97           |   | 103          |   | 96         |   | 104        |   |
| CCB 240-337207/121   | 21:17 | 104                         |   | 96           |   | 104          |   | 102        |   | 106        |   |
| 240-98276-1 MSD      | 21:22 | 87                          |   | 90           |   | 99           |   | 84         |   | 94         |   |
| 240-98276-2          | 21:26 | 94                          |   | 94           |   | 101          |   | 87         |   | 92         |   |
| 240-98276-3          | 21:31 | 96                          |   | 96           |   | 102          |   | 87         |   | 90         |   |
| 240-98276-4          | 21:35 | 98                          |   | 95           |   | 103          |   | 87         |   | 88         |   |
| 240-98276-5          | 21:40 | 93                          |   | 93           |   | 100          |   | 86         |   | 91         |   |
| 240-98276-6          | 21:44 | 91                          |   | 89           |   | 100          |   | 84         |   | 90         |   |
| 240-98276-7          | 21:49 | 89                          |   | 91           |   | 100          |   | 85         |   | 93         |   |
| 240-98276-8          | 21:53 | 93                          |   | 93           |   | 102          |   | 86         |   | 96         |   |
| 240-98276-9          | 21:58 | 94                          |   | 90           |   | 101          |   | 85         |   | 93         |   |
| 240-98276-10         | 22:02 | 93                          |   | 91           |   | 101          |   | 87         |   | 95         |   |
| CCV 240-337207/132   | 22:06 | 101                         |   | 98           |   | 107          |   | 94         |   | 101        |   |
| CCB 240-337207/133   | 22:11 | 106                         |   | 100          |   | 109          |   | 103        |   | 102        |   |
| 240-98276-11         | 22:15 | 95                          |   | 87           |   | 101          |   | 77         |   | 82         |   |
| 240-98276-12         | 22:20 | 99                          |   | 94           |   | 106          |   | 89         |   | 91         |   |
| 240-98276-13         | 22:24 | 100                         |   | 95           |   | 108          |   | 91         |   | 93         |   |
| 240-98276-14         | 22:29 | 85                          |   | 99           |   | 88           |   | 94         |   | 102        |   |
| 240-98276-15         | 22:33 | 100                         |   | 96           |   | 109          |   | 91         |   | 97         |   |
| 240-98276-16         | 22:38 | 98                          |   | 94           |   | 106          |   | 91         |   | 99         |   |



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

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICP-MS Instrument ID: I10 Start Date: 07/19/2018 End Date: 07/19/2018

| Lab Sample ID      | Time  | Internal Standards %RI For: |   |                 |   |                 |   |               |   |               |   |
|--------------------|-------|-----------------------------|---|-----------------|---|-----------------|---|---------------|---|---------------|---|
|                    |       | Element<br>Li-6             | Q | Element<br>Sc/1 | Q | Element<br>Sc/2 | Q | Element<br>Rh | Q | Element<br>In | Q |
| 240-98276-17       | 22:42 | 95                          |   | 99              |   | 106             |   | 98            |   | 107           |   |
| 240-98276-18       | 22:46 | 93                          |   | 93              |   | 101             |   | 88            |   | 96            |   |
| 240-98276-19       | 22:51 | 94                          |   | 98              |   | 102             |   | 91            |   | 99            |   |
| 240-98276-20       | 22:55 | 103                         |   | 99              |   | 110             |   | 91            |   | 99            |   |
| CCV 240-337207/144 | 23:00 | 111                         |   | 101             |   | 114             |   | 100           |   | 108           |   |
| CCB 240-337207/145 | 23:04 | 115                         |   | 102             |   | 114             |   | 107           |   | 111           |   |

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

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICP-MS Instrument ID: I10

Start Date: 07/19/2018 End Date: 07/19/2018

| Lab Sample ID        | Time  | Internal Standards %RI For: |   |            |   |            |   |         |   |         |   |
|----------------------|-------|-----------------------------|---|------------|---|------------|---|---------|---|---------|---|
|                      |       | Element Tb                  | Q | Element Ho | Q | Element Bi | Q | Element | Q | Element | Q |
| STD1 240-337207/3 IC | 12:23 | 99                          |   | 98         |   | 97         |   |         |   |         |   |
| STD2 240-337207/4 IC | 12:28 | 97                          |   | 97         |   | 93         |   |         |   |         |   |
| STD3 240-337207/5 IC | 12:32 | 98                          |   | 95         |   | 89         |   |         |   |         |   |
| STD4 240-337207/6 IC | 12:37 | 103                         |   | 98         |   | 100        |   |         |   |         |   |
| ICV 240-337207/7     | 12:41 | 100                         |   | 101        |   | 92         |   |         |   |         |   |
| ICB 240-337207/8     | 12:46 | 102                         |   | 102        |   | 96         |   |         |   |         |   |
| ICVL 240-337207/9    | 12:50 | 103                         |   | 102        |   | 97         |   |         |   |         |   |
| ICSA 240-337207/10   | 12:54 | 99                          |   | 96         |   | 86         |   |         |   |         |   |
| ICSAB 240-337207/11  | 12:59 | 99                          |   | 98         |   | 87         |   |         |   |         |   |
| CCV 240-337207/108   | 20:19 | 101                         |   | 100        |   | 93         |   |         |   |         |   |
| CCB 240-337207/109   | 20:24 | 102                         |   | 101        |   | 98         |   |         |   |         |   |
| 240-98276-34         | 20:33 | 89                          |   | 89         |   | 82         |   |         |   |         |   |
| 240-98276-35         | 20:37 | 90                          |   | 91         |   | 83         |   |         |   |         |   |
| 240-98276-36         | 20:42 | 91                          |   | 91         |   | 82         |   |         |   |         |   |
| MB 240-335644/1-A    | 20:46 | 94                          |   | 92         |   | 93         |   |         |   |         |   |
| LCS 240-335644/2-A   | 20:51 | 95                          |   | 92         |   | 91         |   |         |   |         |   |
| 240-98276-1          | 20:55 | 89                          |   | 87         |   | 79         |   |         |   |         |   |
| 240-98276-1 SD       | 21:00 | 97                          |   | 95         |   | 89         |   |         |   |         |   |
| 240-98276-1 MS       | 21:08 | 95                          |   | 94         |   | 85         |   |         |   |         |   |
| CCV 240-337207/120   | 21:13 | 102                         |   | 102        |   | 93         |   |         |   |         |   |
| CCB 240-337207/121   | 21:17 | 108                         |   | 105        |   | 99         |   |         |   |         |   |
| 240-98276-1 MSD      | 21:22 | 96                          |   | 93         |   | 83         |   |         |   |         |   |
| 240-98276-2          | 21:26 | 93                          |   | 91         |   | 84         |   |         |   |         |   |
| 240-98276-3          | 21:31 | 91                          |   | 91         |   | 84         |   |         |   |         |   |
| 240-98276-4          | 21:35 | 89                          |   | 89         |   | 82         |   |         |   |         |   |
| 240-98276-5          | 21:40 | 90                          |   | 90         |   | 83         |   |         |   |         |   |
| 240-98276-6          | 21:44 | 89                          |   | 89         |   | 81         |   |         |   |         |   |
| 240-98276-7          | 21:49 | 92                          |   | 90         |   | 81         |   |         |   |         |   |
| 240-98276-8          | 21:53 | 94                          |   | 94         |   | 83         |   |         |   |         |   |
| 240-98276-9          | 21:58 | 94                          |   | 90         |   | 81         |   |         |   |         |   |
| 240-98276-10         | 22:02 | 95                          |   | 94         |   | 83         |   |         |   |         |   |
| CCV 240-337207/132   | 22:06 | 99                          |   | 99         |   | 93         |   |         |   |         |   |
| CCB 240-337207/133   | 22:11 | 104                         |   | 101        |   | 99         |   |         |   |         |   |
| 240-98276-11         | 22:15 | 81                          |   | 80         |   | 75         |   |         |   |         |   |
| 240-98276-12         | 22:20 | 92                          |   | 92         |   | 85         |   |         |   |         |   |
| 240-98276-13         | 22:24 | 95                          |   | 94         |   | 87         |   |         |   |         |   |
| 240-98276-14         | 22:29 | 102                         |   | 101        |   | 92         |   |         |   |         |   |
| 240-98276-15         | 22:33 | 99                          |   | 96         |   | 88         |   |         |   |         |   |
| 240-98276-16         | 22:38 | 101                         |   | 98         |   | 86         |   |         |   |         |   |

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

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICP-MS Instrument ID: I10 Start Date: 07/19/2018 End Date: 07/19/2018

| Lab Sample ID      | Time  | Internal Standards %RI For: |   |            |   |            |   |         |   |         |   |
|--------------------|-------|-----------------------------|---|------------|---|------------|---|---------|---|---------|---|
|                    |       | Element Tb                  | Q | Element Ho | Q | Element Bi | Q | Element | Q | Element | Q |
| 240-98276-17       | 22:42 | 109                         |   | 107        |   | 96         |   |         |   |         |   |
| 240-98276-18       | 22:46 | 98                          |   | 94         |   | 85         |   |         |   |         |   |
| 240-98276-19       | 22:51 | 99                          |   | 97         |   | 87         |   |         |   |         |   |
| 240-98276-20       | 22:55 | 103                         |   | 99         |   | 88         |   |         |   |         |   |
| CCV 240-337207/144 | 23:00 | 108                         |   | 106        |   | 101        |   |         |   |         |   |
| CCB 240-337207/145 | 23:04 | 109                         |   | 106        |   | 105        |   |         |   |         |   |

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTMSICVW\_00084 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW\_00212

| Analyte           | ICV 240-337207/7<br>07/19/2018 12:41 |   |       |     | CCV 240-337207/120<br>07/19/2018 21:13 |   |       |     | CCV 240-337207/132<br>07/19/2018 22:06 |   |       |     |
|-------------------|--------------------------------------|---|-------|-----|----------------------------------------|---|-------|-----|----------------------------------------|---|-------|-----|
|                   | Found                                | C | True  | %R  | Found                                  | C | True  | %R  | Found                                  | C | True  | %R  |
| <b>Beryllium</b>  | 39.5                                 |   | 40.0  | 99  | 47.2                                   |   | 50.0  | 94  | 49.1                                   |   | 50.0  | 98  |
| <i>Antimony</i>   | 42.3                                 |   | 40.0  | 106 | 52.9                                   |   | 50.0  | 106 | 55.1                                   |   | 50.0  | 110 |
| <i>Arsenic</i>    | 41.5                                 |   | 40.0  | 104 | 52.8                                   |   | 50.0  | 106 |                                        |   |       |     |
| <i>Barium</i>     | 41.7                                 |   | 40.0  | 104 | 53.4                                   |   | 50.0  | 107 |                                        |   |       |     |
| <i>Cadmium</i>    | 41.9                                 |   | 40.0  | 105 | 51.4                                   |   | 50.0  | 103 | 54.4                                   |   | 50.0  | 109 |
| <i>Calcium</i>    | 19900                                |   | 20000 | 99  | 25400                                  |   | 25000 | 102 | 26100                                  |   | 25000 | 105 |
| <i>Chromium</i>   | 39.6                                 |   | 40.0  | 99  | 49.4                                   |   | 50.0  | 99  | 51.8                                   |   | 50.0  | 104 |
| <i>Cobalt</i>     | 40.2                                 |   | 40.0  | 100 | 50.5                                   |   | 50.0  | 101 | 53.0                                   |   | 50.0  | 106 |
| <i>Copper</i>     | 42.6                                 |   | 40.0  | 107 | 51.7                                   |   | 50.0  | 103 | 54.2                                   |   | 50.0  | 108 |
| <i>Lead</i>       | 40.0                                 |   | 40.0  | 100 | 48.5                                   |   | 50.0  | 97  | 52.8                                   |   | 50.0  | 106 |
| <i>Magnesium</i>  | 20200                                |   | 20000 | 101 | 25000                                  |   | 25000 | 100 | 26900                                  |   | 25000 | 107 |
| <i>Molybdenum</i> | 40.6                                 |   | 40.0  | 102 | 51.4                                   |   | 50.0  | 103 | 54.6                                   |   | 50.0  | 109 |
| <i>Nickel</i>     | 40.2                                 |   | 40.0  | 101 | 47.6                                   |   | 50.0  | 95  | 51.7                                   |   | 50.0  | 103 |
| <i>Selenium</i>   | 41.3                                 |   | 40.0  | 103 | 52.3                                   |   | 50.0  | 105 | 54.6                                   |   | 50.0  | 109 |
| <i>Silver</i>     | 41.0                                 |   | 40.0  | 103 | 51.2                                   |   | 50.0  | 102 | 54.1                                   |   | 50.0  | 108 |
| <i>Thallium</i>   | 39.3                                 |   | 40.0  | 98  | 48.9                                   |   | 50.0  | 98  | 53.1                                   |   | 50.0  | 106 |
| <i>Tungsten</i>   | 40.4                                 |   | 40.0  | 101 | 50.3                                   |   | 50.0  | 101 | 54.1                                   |   | 50.0  | 108 |
| <i>Vanadium</i>   | 39.1                                 |   | 40.0  | 98  | 49.8                                   |   | 50.0  | 100 | 51.9                                   |   | 50.0  | 104 |
| <i>Zinc</i>       | 41.7                                 |   | 40.0  | 104 | 50.0                                   |   | 50.0  | 100 | 52.5                                   |   | 50.0  | 105 |

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

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTMSICVW\_00084 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW\_00212

| Analyte           | CCV 240-337207/144<br>07/19/2018 23:00 |   |       |     |       |   |      |    |       |   |      |    |
|-------------------|----------------------------------------|---|-------|-----|-------|---|------|----|-------|---|------|----|
|                   | Found                                  | C | True  | %R  | Found | C | True | %R | Found | C | True | %R |
| <b>Beryllium</b>  | 46.2                                   |   | 50.0  | 92  |       |   |      |    |       |   |      |    |
| <i>Antimony</i>   | 54.5                                   |   | 50.0  | 109 |       |   |      |    |       |   |      |    |
| <i>Arsenic</i>    | 54.8                                   |   | 50.0  | 110 |       |   |      |    |       |   |      |    |
| <i>Barium</i>     | 54.6                                   |   | 50.0  | 109 |       |   |      |    |       |   |      |    |
| <i>Cadmium</i>    | 53.1                                   |   | 50.0  | 106 |       |   |      |    |       |   |      |    |
| <i>Calcium</i>    | 25800                                  |   | 25000 | 103 |       |   |      |    |       |   |      |    |
| <i>Chromium</i>   | 51.1                                   |   | 50.0  | 102 |       |   |      |    |       |   |      |    |
| <i>Cobalt</i>     | 52.3                                   |   | 50.0  | 105 |       |   |      |    |       |   |      |    |
| <i>Copper</i>     | 52.7                                   |   | 50.0  | 105 |       |   |      |    |       |   |      |    |
| <i>Lead</i>       | 51.2                                   |   | 50.0  | 102 |       |   |      |    |       |   |      |    |
| <i>Magnesium</i>  | 26400                                  |   | 25000 | 106 |       |   |      |    |       |   |      |    |
| <i>Molybdenum</i> | 52.9                                   |   | 50.0  | 106 |       |   |      |    |       |   |      |    |
| <i>Nickel</i>     | 48.7                                   |   | 50.0  | 97  |       |   |      |    |       |   |      |    |
| <i>Selenium</i>   | 55.2                                   |   | 50.0  | 110 |       |   |      |    |       |   |      |    |
| <i>Silver</i>     | 52.1                                   |   | 50.0  | 104 |       |   |      |    |       |   |      |    |
| <i>Thallium</i>   | 51.2                                   |   | 50.0  | 102 |       |   |      |    |       |   |      |    |
| <i>Tungsten</i>   | 50.0                                   |   | 50.0  | 100 |       |   |      |    |       |   |      |    |
| <i>Vanadium</i>   | 51.4                                   |   | 50.0  | 103 |       |   |      |    |       |   |      |    |
| <i>Zinc</i>       | 51.9                                   |   | 50.0  | 104 |       |   |      |    |       |   |      |    |

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

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTMSICVW\_00084 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW\_00213

| Analyte           | ICV 240-337207/7<br>07/19/2018 12:41 |   |       |     | CCV 240-337207/108<br>07/19/2018 20:19 |   |       |     |       |   |      |    |
|-------------------|--------------------------------------|---|-------|-----|----------------------------------------|---|-------|-----|-------|---|------|----|
|                   | Found                                | C | True  | %R  | Found                                  | C | True  | %R  | Found | C | True | %R |
| <b>Beryllium</b>  | 39.5                                 |   | 40.0  | 99  | 47.4                                   |   | 50.0  | 95  |       |   |      |    |
| <i>Antimony</i>   | 42.3                                 |   | 40.0  | 106 | 54.7                                   |   | 50.0  | 109 |       |   |      |    |
| <i>Arsenic</i>    | 41.5                                 |   | 40.0  | 104 | 54.2                                   |   | 50.0  | 108 |       |   |      |    |
| <i>Cadmium</i>    | 41.9                                 |   | 40.0  | 105 | 53.6                                   |   | 50.0  | 107 |       |   |      |    |
| <i>Calcium</i>    | 19900                                |   | 20000 | 99  | 25600                                  |   | 25000 | 102 |       |   |      |    |
| <i>Chromium</i>   | 39.6                                 |   | 40.0  | 99  | 50.9                                   |   | 50.0  | 102 |       |   |      |    |
| <i>Cobalt</i>     | 40.2                                 |   | 40.0  | 100 | 52.1                                   |   | 50.0  | 104 |       |   |      |    |
| <i>Copper</i>     | 42.6                                 |   | 40.0  | 107 | 53.7                                   |   | 50.0  | 107 |       |   |      |    |
| <i>Lead</i>       | 40.0                                 |   | 40.0  | 100 | 50.3                                   |   | 50.0  | 101 |       |   |      |    |
| <i>Magnesium</i>  | 20200                                |   | 20000 | 101 | 25900                                  |   | 25000 | 104 |       |   |      |    |
| <i>Molybdenum</i> | 40.6                                 |   | 40.0  | 102 | 53.7                                   |   | 50.0  | 107 |       |   |      |    |
| <i>Nickel</i>     | 40.2                                 |   | 40.0  | 101 | 49.4                                   |   | 50.0  | 99  |       |   |      |    |
| <i>Selenium</i>   | 41.3                                 |   | 40.0  | 103 | 53.7                                   |   | 50.0  | 107 |       |   |      |    |
| <i>Silver</i>     | 41.0                                 |   | 40.0  | 103 | 53.4                                   |   | 50.0  | 107 |       |   |      |    |
| <i>Thallium</i>   | 39.3                                 |   | 40.0  | 98  | 50.6                                   |   | 50.0  | 101 |       |   |      |    |
| <i>Tungsten</i>   | 40.4                                 |   | 40.0  | 101 | 51.4                                   |   | 50.0  | 103 |       |   |      |    |
| <i>Vanadium</i>   | 39.1                                 |   | 40.0  | 98  | 51.2                                   |   | 50.0  | 102 |       |   |      |    |
| <i>Zinc</i>       | 41.7                                 |   | 40.0  | 104 | 52.1                                   |   | 50.0  | 104 |       |   |      |    |

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

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTMSCRI6020AW\_00068

Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW\_00212

| Analyte           | ICVL 240-337207/9<br>07/19/2018 12:50 |   |      |     | CCV 240-337207/120<br>07/19/2018 21:13 |   |       |     | CCV 240-337207/132<br>07/19/2018 22:06 |   |       |     |
|-------------------|---------------------------------------|---|------|-----|----------------------------------------|---|-------|-----|----------------------------------------|---|-------|-----|
|                   | Found                                 | C | True | %R  | Found                                  | C | True  | %R  | Found                                  | C | True  | %R  |
| <b>Beryllium</b>  | 1.01                                  |   | 1.00 | 101 | 47.2                                   |   | 50.0  | 94  | 49.1                                   |   | 50.0  | 98  |
| <i>Antimony</i>   | 2.15                                  |   | 2.00 | 108 | 52.9                                   |   | 50.0  | 106 | 55.1                                   |   | 50.0  | 110 |
| <i>Arsenic</i>    | 5.18                                  |   | 5.00 | 104 | 52.8                                   |   | 50.0  | 106 |                                        |   |       |     |
| <i>Barium</i>     | 5.25                                  |   | 5.00 | 105 | 53.4                                   |   | 50.0  | 107 |                                        |   |       |     |
| <i>Cadmium</i>    | 1.05                                  |   | 1.00 | 105 | 51.4                                   |   | 50.0  | 103 | 54.4                                   |   | 50.0  | 109 |
| <i>Calcium</i>    | 1030                                  |   | 1000 | 103 | 25400                                  |   | 25000 | 102 | 26100                                  |   | 25000 | 105 |
| <i>Chromium</i>   | 1.97                                  | J | 2.00 | 99  | 49.4                                   |   | 50.0  | 99  | 51.8                                   |   | 50.0  | 104 |
| <i>Cobalt</i>     | 1.06                                  |   | 1.00 | 106 | 50.5                                   |   | 50.0  | 101 | 53.0                                   |   | 50.0  | 106 |
| <i>Copper</i>     | 2.21                                  |   | 2.00 | 111 | 51.7                                   |   | 50.0  | 103 | 54.2                                   |   | 50.0  | 108 |
| <i>Lead</i>       | 1.08                                  |   | 1.00 | 108 | 48.5                                   |   | 50.0  | 97  | 52.8                                   |   | 50.0  | 106 |
| <i>Magnesium</i>  | 1080                                  |   | 1000 | 108 | 25000                                  |   | 25000 | 100 | 26900                                  |   | 25000 | 107 |
| <i>Molybdenum</i> | 5.11                                  |   | 5.00 | 102 | 51.4                                   |   | 50.0  | 103 | 54.6                                   |   | 50.0  | 109 |
| <i>Nickel</i>     | 2.00                                  |   | 2.00 | 100 | 47.6                                   |   | 50.0  | 95  | 51.7                                   |   | 50.0  | 103 |
| <i>Selenium</i>   | 5.34                                  |   | 5.00 | 107 | 52.3                                   |   | 50.0  | 105 | 54.6                                   |   | 50.0  | 109 |
| <i>Silver</i>     | 1.04                                  |   | 1.00 | 104 | 51.2                                   |   | 50.0  | 102 | 54.1                                   |   | 50.0  | 108 |
| <i>Thallium</i>   | 1.05                                  |   | 1.00 | 105 | 48.9                                   |   | 50.0  | 98  | 53.1                                   |   | 50.0  | 106 |
| <i>Tungsten</i>   | 10.1                                  |   | 10.0 | 101 | 50.3                                   |   | 50.0  | 101 | 54.1                                   |   | 50.0  | 108 |
| <i>Vanadium</i>   | 4.83                                  | J | 5.00 | 97  | 49.8                                   |   | 50.0  | 100 | 51.9                                   |   | 50.0  | 104 |
| <i>Zinc</i>       | 21.0                                  |   | 20.0 | 105 | 50.0                                   |   | 50.0  | 100 | 52.5                                   |   | 50.0  | 105 |

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

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTMSCRI6020AW\_00068 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW\_00212

| Analyte           | CCV 240-337207/144<br>07/19/2018 23:00 |   |       |     |       |   |      |    |       |   |      |    |
|-------------------|----------------------------------------|---|-------|-----|-------|---|------|----|-------|---|------|----|
|                   | Found                                  | C | True  | %R  | Found | C | True | %R | Found | C | True | %R |
| <b>Beryllium</b>  | 46.2                                   |   | 50.0  | 92  |       |   |      |    |       |   |      |    |
| <i>Antimony</i>   | 54.5                                   |   | 50.0  | 109 |       |   |      |    |       |   |      |    |
| <i>Arsenic</i>    | 54.8                                   |   | 50.0  | 110 |       |   |      |    |       |   |      |    |
| <i>Barium</i>     | 54.6                                   |   | 50.0  | 109 |       |   |      |    |       |   |      |    |
| <i>Cadmium</i>    | 53.1                                   |   | 50.0  | 106 |       |   |      |    |       |   |      |    |
| <i>Calcium</i>    | 25800                                  |   | 25000 | 103 |       |   |      |    |       |   |      |    |
| <i>Chromium</i>   | 51.1                                   |   | 50.0  | 102 |       |   |      |    |       |   |      |    |
| <i>Cobalt</i>     | 52.3                                   |   | 50.0  | 105 |       |   |      |    |       |   |      |    |
| <i>Copper</i>     | 52.7                                   |   | 50.0  | 105 |       |   |      |    |       |   |      |    |
| <i>Lead</i>       | 51.2                                   |   | 50.0  | 102 |       |   |      |    |       |   |      |    |
| <i>Magnesium</i>  | 26400                                  |   | 25000 | 106 |       |   |      |    |       |   |      |    |
| <i>Molybdenum</i> | 52.9                                   |   | 50.0  | 106 |       |   |      |    |       |   |      |    |
| <i>Nickel</i>     | 48.7                                   |   | 50.0  | 97  |       |   |      |    |       |   |      |    |
| <i>Selenium</i>   | 55.2                                   |   | 50.0  | 110 |       |   |      |    |       |   |      |    |
| <i>Silver</i>     | 52.1                                   |   | 50.0  | 104 |       |   |      |    |       |   |      |    |
| <i>Thallium</i>   | 51.2                                   |   | 50.0  | 102 |       |   |      |    |       |   |      |    |
| <i>Tungsten</i>   | 50.0                                   |   | 50.0  | 100 |       |   |      |    |       |   |      |    |
| <i>Vanadium</i>   | 51.4                                   |   | 50.0  | 103 |       |   |      |    |       |   |      |    |
| <i>Zinc</i>       | 51.9                                   |   | 50.0  | 104 |       |   |      |    |       |   |      |    |

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



2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTMSCRI6020AW\_00068 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW\_00213

| Analyte           | ICVL 240-337207/9<br>07/19/2018 12:50 |   |      |     | CCV 240-337207/108<br>07/19/2018 20:19 |   |       |     |       |   |      |    |
|-------------------|---------------------------------------|---|------|-----|----------------------------------------|---|-------|-----|-------|---|------|----|
|                   | Found                                 | C | True | %R  | Found                                  | C | True  | %R  | Found | C | True | %R |
| <b>Beryllium</b>  | 1.01                                  |   | 1.00 | 101 | 47.4                                   |   | 50.0  | 95  |       |   |      |    |
| <i>Antimony</i>   | 2.15                                  |   | 2.00 | 108 | 54.7                                   |   | 50.0  | 109 |       |   |      |    |
| <i>Arsenic</i>    | 5.18                                  |   | 5.00 | 104 | 54.2                                   |   | 50.0  | 108 |       |   |      |    |
| <i>Cadmium</i>    | 1.05                                  |   | 1.00 | 105 | 53.6                                   |   | 50.0  | 107 |       |   |      |    |
| <i>Calcium</i>    | 1030                                  |   | 1000 | 103 | 25600                                  |   | 25000 | 102 |       |   |      |    |
| <i>Chromium</i>   | 1.97                                  | J | 2.00 | 99  | 50.9                                   |   | 50.0  | 102 |       |   |      |    |
| <i>Cobalt</i>     | 1.06                                  |   | 1.00 | 106 | 52.1                                   |   | 50.0  | 104 |       |   |      |    |
| <i>Copper</i>     | 2.21                                  |   | 2.00 | 111 | 53.7                                   |   | 50.0  | 107 |       |   |      |    |
| <i>Lead</i>       | 1.08                                  |   | 1.00 | 108 | 50.3                                   |   | 50.0  | 101 |       |   |      |    |
| <i>Magnesium</i>  | 1080                                  |   | 1000 | 108 | 25900                                  |   | 25000 | 104 |       |   |      |    |
| <i>Molybdenum</i> | 5.11                                  |   | 5.00 | 102 | 53.7                                   |   | 50.0  | 107 |       |   |      |    |
| <i>Nickel</i>     | 2.00                                  |   | 2.00 | 100 | 49.4                                   |   | 50.0  | 99  |       |   |      |    |
| <i>Selenium</i>   | 5.34                                  |   | 5.00 | 107 | 53.7                                   |   | 50.0  | 107 |       |   |      |    |
| <i>Silver</i>     | 1.04                                  |   | 1.00 | 104 | 53.4                                   |   | 50.0  | 107 |       |   |      |    |
| <i>Thallium</i>   | 1.05                                  |   | 1.00 | 105 | 50.6                                   |   | 50.0  | 101 |       |   |      |    |
| <i>Tungsten</i>   | 10.1                                  |   | 10.0 | 101 | 51.4                                   |   | 50.0  | 103 |       |   |      |    |
| <i>Vanadium</i>   | 4.83                                  | J | 5.00 | 97  | 51.2                                   |   | 50.0  | 102 |       |   |      |    |
| <i>Zinc</i>       | 21.0                                  |   | 20.0 | 105 | 52.1                                   |   | 50.0  | 104 |       |   |      |    |

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

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Concentration Units: ug/L

| Analyte           | RL   | ICB 240-337207/8<br>07/19/2018 12:46 |   | CCB 240-337207/109<br>07/19/2018 20:24 |   | CCB 240-337207/121<br>07/19/2018 21:17 |   | CCB 240-337207/133<br>07/19/2018 22:11 |   |
|-------------------|------|--------------------------------------|---|----------------------------------------|---|----------------------------------------|---|----------------------------------------|---|
|                   |      | Found                                | C | Found                                  | C | Found                                  | C | Found                                  | C |
| <b>Beryllium</b>  | 1.0  | 1.0                                  | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <i>Antimony</i>   | 2.0  | 2.0                                  | U | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U |
| <i>Arsenic</i>    | 5.0  | 5.0                                  | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <i>Barium</i>     | 5.0  | 5.0                                  | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <i>Cadmium</i>    | 1.0  | 1.0                                  | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <i>Calcium</i>    | 1000 | 1000                                 | U | 1000                                   | U | 1000                                   | U | 1000                                   | U |
| <i>Chromium</i>   | 2.0  | 2.0                                  | U | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U |
| <i>Cobalt</i>     | 1.0  | 1.0                                  | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <i>Copper</i>     | 2.0  | 2.0                                  | U | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U |
| <i>Lead</i>       | 1.0  | 1.0                                  | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <i>Magnesium</i>  | 1000 | 1000                                 | U | 1000                                   | U | 1000                                   | U | 1000                                   | U |
| <i>Molybdenum</i> | 5.0  | 5.0                                  | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <i>Nickel</i>     | 2.0  | 2.0                                  | U | 2.0                                    | U | 2.0                                    | U | 2.0                                    | U |
| <i>Selenium</i>   | 5.0  | 5.0                                  | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <i>Silver</i>     | 1.0  | 1.0                                  | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <i>Thallium</i>   | 1.0  | 1.0                                  | U | 1.0                                    | U | 1.0                                    | U | 1.0                                    | U |
| <i>Tungsten</i>   | 10   | 10                                   | U | 10                                     | U | 10                                     | U | 10                                     | U |
| <i>Vanadium</i>   | 5.0  | 5.0                                  | U | 5.0                                    | U | 5.0                                    | U | 5.0                                    | U |
| <i>Zinc</i>       | 20   | 20                                   | U | 20                                     | U | 20                                     | U | 20                                     | U |

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Concentration Units: ug/L

| Analyte           | RL   | CCB 240-337207/145<br>07/19/2018 23:04 |   |       |   |       |   |       |   |
|-------------------|------|----------------------------------------|---|-------|---|-------|---|-------|---|
|                   |      | Found                                  | C | Found | C | Found | C | Found | C |
| <b>Beryllium</b>  | 1.0  | 1.0                                    | U |       |   |       |   |       |   |
| <i>Antimony</i>   | 2.0  | 2.0                                    | U |       |   |       |   |       |   |
| <i>Arsenic</i>    | 5.0  | 5.0                                    | U |       |   |       |   |       |   |
| <i>Barium</i>     | 5.0  | 5.0                                    | U |       |   |       |   |       |   |
| <i>Cadmium</i>    | 1.0  | 1.0                                    | U |       |   |       |   |       |   |
| <i>Calcium</i>    | 1000 | 1000                                   | U |       |   |       |   |       |   |
| <i>Chromium</i>   | 2.0  | 2.0                                    | U |       |   |       |   |       |   |
| <i>Cobalt</i>     | 1.0  | 1.0                                    | U |       |   |       |   |       |   |
| <i>Copper</i>     | 2.0  | 2.0                                    | U |       |   |       |   |       |   |
| <i>Lead</i>       | 1.0  | 1.0                                    | U |       |   |       |   |       |   |
| <i>Magnesium</i>  | 1000 | 1000                                   | U |       |   |       |   |       |   |
| <i>Molybdenum</i> | 5.0  | 5.0                                    | U |       |   |       |   |       |   |
| <i>Nickel</i>     | 2.0  | 2.0                                    | U |       |   |       |   |       |   |
| <i>Selenium</i>   | 5.0  | 5.0                                    | U |       |   |       |   |       |   |
| <i>Silver</i>     | 1.0  | 1.0                                    | U |       |   |       |   |       |   |
| <i>Thallium</i>   | 1.0  | 1.0                                    | U |       |   |       |   |       |   |
| <i>Tungsten</i>   | 10   | 10                                     | U |       |   |       |   |       |   |
| <i>Vanadium</i>   | 5.0  | 5.0                                    | U |       |   |       |   |       |   |
| <i>Zinc</i>       | 20   | 20                                     | U |       |   |       |   |       |   |

Italicized analytes were not requested for this sequence.

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSA 240-337207/10 Instrument ID: I10  
 Lab File ID: 010ICSA.d ICS Source: MTMSICSAW\_00085  
 Concentration Units: ug/L

| Analyte           | True<br>Solution A | Found<br>Solution A | Percent<br>Recovery |
|-------------------|--------------------|---------------------|---------------------|
| <b>Beryllium</b>  |                    | <b>-0.0010</b>      |                     |
| <i>Aluminum</i>   | <i>50000</i>       | <i>45884</i>        | <i>92</i>           |
| <i>Antimony</i>   |                    | <i>0.109</i>        |                     |
| <i>Arsenic</i>    |                    | <i>0.0010</i>       |                     |
| <i>Barium</i>     |                    | <i>0.0330</i>       |                     |
| <i>Boron</i>      |                    | <i>-1.69</i>        |                     |
| <i>Cadmium</i>    |                    | <i>0.345</i>        |                     |
| <i>Calcium</i>    | <i>50000</i>       | <i>49560</i>        | <i>99</i>           |
| <i>Chromium</i>   |                    | <i>0.0960</i>       |                     |
| <i>Cobalt</i>     |                    | <i>0.0080</i>       |                     |
| <i>Copper</i>     |                    | <i>0.523</i>        |                     |
| <i>Iron</i>       | <i>50000</i>       | <i>49007</i>        | <i>98</i>           |
| <i>Lead</i>       |                    | <i>0.0600</i>       |                     |
| <i>Lithium</i>    |                    | <i>-0.0120</i>      |                     |
| <i>Magnesium</i>  | <i>50000</i>       | <i>50756</i>        | <i>102</i>          |
| <i>Manganese</i>  |                    | <i>0.127</i>        |                     |
| <i>Molybdenum</i> | <i>1000</i>        | <i>1018</i>         | <i>102</i>          |
| <i>Nickel</i>     |                    | <i>0.286</i>        |                     |
| <i>Potassium</i>  | <i>50000</i>       | <i>50746</i>        | <i>101</i>          |
| <i>Selenium</i>   |                    | <i>0.167</i>        |                     |
| <i>Silver</i>     |                    | <i>0.0150</i>       |                     |
| <i>Sodium</i>     | <i>50000</i>       | <i>50648</i>        | <i>101</i>          |
| <i>Strontium</i>  |                    | <i>0.438</i>        |                     |
| <i>Thallium</i>   |                    | <i>0.0040</i>       |                     |
| <i>Tin</i>        |                    | <i>0.0400</i>       |                     |
| <i>Titanium</i>   | <i>1000</i>        | <i>1021</i>         | <i>102</i>          |
| <i>Tungsten</i>   |                    | <i>0.364</i>        |                     |
| <i>Vanadium</i>   |                    | <i>0.0040</i>       |                     |
| <i>Zinc</i>       |                    | <i>1.62</i>         |                     |

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

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSAB 240-337207/11 Instrument ID: I10  
 Lab File ID: 011ICAB.d ICS Source: MTMSICSABW\_00084  
 Concentration Units: ug/L

| Analyte           | True         | Found        |                  |
|-------------------|--------------|--------------|------------------|
|                   | Solution AB  | Solution AB  | Percent Recovery |
| <b>Beryllium</b>  | <b>100</b>   | <b>100</b>   | <b>100</b>       |
| <i>Aluminum</i>   | <i>50000</i> | <i>45510</i> | <i>91</i>        |
| <i>Antimony</i>   | <i>100</i>   | <i>103</i>   | <i>103</i>       |
| <i>Arsenic</i>    | <i>100</i>   | <i>101</i>   | <i>101</i>       |
| <i>Barium</i>     | <i>100</i>   | <i>102</i>   | <i>102</i>       |
| <i>Boron</i>      | <i>100</i>   | <i>94.1</i>  | <i>94</i>        |
| <i>Cadmium</i>    | <i>100</i>   | <i>101</i>   | <i>101</i>       |
| <i>Calcium</i>    | <i>50000</i> | <i>48535</i> | <i>97</i>        |
| <i>Chromium</i>   | <i>100</i>   | <i>98.6</i>  | <i>99</i>        |
| <i>Cobalt</i>     | <i>100</i>   | <i>99.7</i>  | <i>100</i>       |
| <i>Copper</i>     | <i>100</i>   | <i>99.5</i>  | <i>100</i>       |
| <i>Iron</i>       | <i>50000</i> | <i>49265</i> | <i>99</i>        |
| <i>Lead</i>       | <i>100</i>   | <i>96.8</i>  | <i>97</i>        |
| <i>Lithium</i>    | <i>100</i>   | <i>97.3</i>  | <i>97</i>        |
| <i>Magnesium</i>  | <i>50000</i> | <i>50357</i> | <i>101</i>       |
| <i>Manganese</i>  | <i>100</i>   | <i>98.5</i>  | <i>99</i>        |
| <i>Molybdenum</i> | <i>1100</i>  | <i>1148</i>  | <i>104</i>       |
| <i>Nickel</i>     | <i>100</i>   | <i>99.2</i>  | <i>99</i>        |
| <i>Potassium</i>  | <i>50000</i> | <i>49183</i> | <i>98</i>        |
| <i>Selenium</i>   | <i>100</i>   | <i>101</i>   | <i>101</i>       |
| <i>Silver</i>     | <i>100</i>   | <i>101</i>   | <i>101</i>       |
| <i>Sodium</i>     | <i>50000</i> | <i>49629</i> | <i>99</i>        |
| <i>Strontium</i>  | <i>100</i>   | <i>99.8</i>  | <i>100</i>       |
| <i>Thallium</i>   | <i>100</i>   | <i>96.7</i>  | <i>97</i>        |
| <i>Tin</i>        | <i>100</i>   | <i>100</i>   | <i>100</i>       |
| <i>Titanium</i>   | <i>1100</i>  | <i>1100</i>  | <i>100</i>       |
| <i>Tungsten</i>   | <i>100</i>   | <i>97.9</i>  | <i>98</i>        |
| <i>Vanadium</i>   | <i>100</i>   | <i>98.1</i>  | <i>98</i>        |
| <i>Zinc</i>       | <i>100</i>   | <i>98.6</i>  | <i>99</i>        |

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

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Instrument ID: H3

Analysis Method: 7470A

Start Date: 07/12/2018 08:32

End Date: 07/12/2018 18:17

| Lab Sample Id       | D/F | T<br>y<br>p<br>e | Time  | Analytes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------|-----|------------------|-------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                     |     |                  |       | H<br>g   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IC 240-335675/1-A   |     |                  | 08:32 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IC 240-335675/2-A   |     |                  | 08:34 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IC 240-335675/3-A   |     |                  | 08:36 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IC 240-335675/4-A   |     |                  | 08:38 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IC 240-335675/5-A   |     |                  | 08:40 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IC 240-335675/6-A   |     |                  | 08:42 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICV 240-335675/7-A  | 1   |                  | 09:05 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICB 240-335675/8-A  | 1   |                  | 09:07 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CRA 240-335675/9-A  | 1   |                  | 09:09 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A |     |                  | 09:11 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A |     |                  | 09:13 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:15 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:17 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:19 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:22 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:24 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:26 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:28 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:30 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:32 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:34 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A |     |                  | 09:36 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A |     |                  | 09:38 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:40 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:42 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:44 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:46 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:48 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:50 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:52 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:54 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:56 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 09:58 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A |     |                  | 10:00 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A |     |                  | 10:03 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:05 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:07 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:09 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:11 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:13 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:15 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:17 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Instrument ID: H3 Analysis Method: 7470A

Start Date: 07/12/2018 08:32 End Date: 07/12/2018 18:17

| Lab Sample Id       | D/F | T<br>y<br>p<br>e | Time  | Analytes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------|-----|------------------|-------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                     |     |                  |       | H<br>g   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:19 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:20 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:22 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A |     |                  | 10:24 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A |     |                  | 10:26 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:29 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:31 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:32 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:34 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:36 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:38 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:40 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:42 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:45 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:47 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A |     |                  | 10:49 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A |     |                  | 10:51 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:54 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:56 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:58 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 10:59 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 11:01 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 11:03 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 11:05 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 11:07 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 11:09 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 11:12 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A |     |                  | 11:14 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A |     |                  | 11:16 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 11:18 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 11:20 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A | 1   |                  | 11:22 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A | 1   |                  | 11:24 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MB 240-335642/1-A   | 1   | T                | 13:38 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LCS 240-335642/2-A  | 1   | T                | 13:40 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-21        | 1   | D                | 13:42 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-21 MS     | 1   | D                | 13:44 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-21 MSD    | 1   | D                | 13:46 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-22        | 1   | D                | 13:48 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-23        | 1   | D                | 13:50 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-24        | 1   | D                | 13:52 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A | 1   |                  | 13:54 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Instrument ID: H3

Analysis Method: 7470A

Start Date: 07/12/2018 08:32

End Date: 07/12/2018 18:17

| Lab Sample Id       | D/F | T<br>y<br>p<br>e | Time  | Analytes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------|-----|------------------|-------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                     |     |                  |       | H<br>g   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A |     | 1                | 13:56 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-25        |     | 1 D              | 13:59 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-26        |     | 1 D              | 14:00 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-27        |     | 1 D              | 14:02 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-28        |     | 1 D              | 14:04 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-29        |     | 1 D              | 14:06 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-30        |     | 1 D              | 14:08 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-31        |     | 1 D              | 14:10 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-32        |     | 1 D              | 14:12 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-33        |     | 1 D              | 14:14 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-34        |     | 1 D              | 14:16 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A |     | 1                | 14:18 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A |     | 1                | 14:20 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-35        |     | 1 D              | 14:22 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-36        |     | 1 D              | 14:24 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 14:26 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 14:28 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 14:30 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 14:32 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 14:34 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 14:36 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 14:39 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 14:41 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A |     | 1                | 14:43 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A |     | 1                | 14:45 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 14:47 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 14:49 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 14:51 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 14:53 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 14:55 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 14:57 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 15:00 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 15:02 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 15:04 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A |     |                  | 15:07 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A |     |                  | 15:09 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 15:29 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A |     |                  | 15:31 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A |     |                  | 15:33 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 15:35 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 15:37 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 15:40 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Instrument ID: H3

Analysis Method: 7470A

Start Date: 07/12/2018 08:32

End Date: 07/12/2018 18:17

| Lab Sample Id       | D/F | T<br>y<br>p<br>e | Time  | Analytes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------|-----|------------------|-------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                     |     |                  |       | H<br>g   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 15:42 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 15:44 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 15:46 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 15:48 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 15:50 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 15:52 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 15:54 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A |     |                  | 15:55 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A |     |                  | 15:57 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:00 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:02 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:04 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:06 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:08 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:09 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:11 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:13 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:15 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:17 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A |     |                  | 16:20 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A |     |                  | 16:22 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:24 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:26 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:29 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:31 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:34 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:36 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:38 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:40 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:43 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:45 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A |     |                  | 16:47 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A |     |                  | 16:49 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:51 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:53 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:55 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:57 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 16:59 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 17:01 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 17:03 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 17:05 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 17:07 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: H3 Analysis Method: 7470A  
 Start Date: 07/12/2018 08:32 End Date: 07/12/2018 18:17

| Lab Sample Id       | D/F | T<br>y<br>p<br>e | Time  | Analytes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------|-----|------------------|-------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                     |     |                  |       | H<br>g   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 17:09 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A | 1   |                  | 17:11 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A | 1   |                  | 17:13 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 17:15 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |     |                  | 17:17 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MB 240-335646/1-A   | 1   | T                | 17:19 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LCS 240-335646/2-A  | 1   | T                | 17:21 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-1         | 1   | D                | 17:23 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-1 MS      | 1   | D                | 17:25 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-1 MSD     | 1   | D                | 17:27 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-2         | 1   | D                | 17:29 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-3         | 1   | D                | 17:31 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-4         | 1   | D                | 17:33 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A | 1   |                  | 17:35 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A | 1   |                  | 17:37 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-5         | 1   | D                | 17:40 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-6         | 1   | D                | 17:41 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-7         | 1   | D                | 17:43 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-8         | 1   | D                | 17:45 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-9         | 1   | D                | 17:47 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-10        | 1   | D                | 17:49 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-11        | 1   | D                | 17:51 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-12        | 1   | D                | 17:53 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-13        | 1   | D                | 17:55 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-14        | 1   | D                | 17:57 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A | 1   |                  | 17:59 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A | 1   |                  | 18:01 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-15        | 1   | D                | 18:03 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-16        | 1   | D                | 18:05 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-17        | 1   | D                | 18:07 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-18        | 1   | D                | 18:09 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-19        | 1   | D                | 18:11 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-20        | 1   | D                | 18:13 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 240-335675/10-A | 1   |                  | 18:15 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 240-335675/11-A | 1   |                  | 18:17 | X        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Prep Types: \_\_\_\_\_  
 D = Dissolved  
 T = Total/NA

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Instrument ID: NOEQUIP

Analysis Method: SM 2340B

Start Date: 07/23/2018 08:05

End Date: 07/23/2018 08:53

| Lab Sample Id | D/F | T<br>y<br>p<br>e | Time  | Analytes              |                                 |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------|-----|------------------|-------|-----------------------|---------------------------------|----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|               |     |                  |       | C<br>a<br>c<br>o<br>3 | H<br>a<br>r<br>d<br>C<br>C<br>D | M<br>g<br>H<br>A<br>R<br>D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-1   |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-2   |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-3   |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-4   |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-5   |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-6   |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-7   |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-8   |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-9   |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-10  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-11  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-12  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-13  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-14  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-15  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-16  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-17  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-18  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-19  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-20  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-21  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-22  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-23  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-24  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-25  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-26  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-27  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-28  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-29  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-30  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-31  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-32  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-33  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-34  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-35  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 240-98276-36  |     | 1 D              | 08:05 | X                     | X                               | X                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ        |     |                  | 08:05 |                       |                                 |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ        |     |                  | 08:05 |                       |                                 |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTHgICV\_00001\_00364 Concentration Units: ug/L

CCV Source: MTHGCALW\_01869

| Analyte        | ICV 240-335675/7-A<br>07/12/2018 09:05 |   |      |    | CCV 240-335675/10-A<br>07/12/2018 11:22 |   |      |    | CCV 240-335675/10-A<br>07/12/2018 13:54 |   |      |    |
|----------------|----------------------------------------|---|------|----|-----------------------------------------|---|------|----|-----------------------------------------|---|------|----|
|                | Found                                  | C | True | %R | Found                                   | C | True | %R | Found                                   | C | True | %R |
| <b>Mercury</b> | 4.87                                   |   | 5.00 | 97 | 4.85                                    |   | 5.00 | 97 | 4.81                                    |   | 5.00 | 96 |

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

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTHgICV\_00001\_00364 Concentration Units: ug/L

CCV Source: MTHGCALW\_01869

| Analyte        | CCV 240-335675/10-A<br>07/12/2018 14:18 |   |      |     | CCV 240-335675/10-A<br>07/12/2018 14:43 |   |      |    | CCV 240-335675/10-A<br>07/12/2018 17:11 |   |      |    |
|----------------|-----------------------------------------|---|------|-----|-----------------------------------------|---|------|----|-----------------------------------------|---|------|----|
|                | Found                                   | C | True | %R  | Found                                   | C | True | %R | Found                                   | C | True | %R |
| <b>Mercury</b> | 5.04                                    |   | 5.00 | 101 | 4.85                                    |   | 5.00 | 97 | 4.86                                    |   | 5.00 | 97 |

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

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

ICV Source: MTHgICV\_00001\_00364 Concentration Units: ug/L

CCV Source: MTHGCALW\_01869

| Analyte        | CCV 240-335675/10-A<br>07/12/2018 17:35 |   |      |    | CCV 240-335675/10-A<br>07/12/2018 17:59 |   |      |    | CCV 240-335675/10-A<br>07/12/2018 18:15 |   |      |    |
|----------------|-----------------------------------------|---|------|----|-----------------------------------------|---|------|----|-----------------------------------------|---|------|----|
|                | Found                                   | C | True | %R | Found                                   | C | True | %R | Found                                   | C | True | %R |
| <b>Mercury</b> | 4.71                                    |   | 5.00 | 94 | 4.86                                    |   | 5.00 | 97 | 4.78                                    |   | 5.00 | 96 |

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

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Concentration Units: ug/L

| Analyte        | RL   | ICB 240-335675/8-A<br>07/12/2018 09:07 |   | CCB 240-335675/11-A<br>07/12/2018 11:24 |   | CCB 240-335675/11-A<br>07/12/2018 13:56 |   | CCB 240-335675/11-A<br>07/12/2018 14:20 |   |
|----------------|------|----------------------------------------|---|-----------------------------------------|---|-----------------------------------------|---|-----------------------------------------|---|
|                |      | Found                                  | C | Found                                   | C | Found                                   | C | Found                                   | C |
| <b>Mercury</b> | 0.20 | 0.20                                   | U | 0.20                                    | U | 0.20                                    | U | 0.20                                    | U |

Italicized analytes were not requested for this sequence.

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Concentration Units: ug/L

| Analyte        | RL   | CCB 240-335675/11-A<br>07/12/2018 14:45 |   | CCB 240-335675/11-A<br>07/12/2018 17:13 |   | CCB 240-335675/11-A<br>07/12/2018 17:37 |   | CCB 240-335675/11-A<br>07/12/2018 18:01 |   |
|----------------|------|-----------------------------------------|---|-----------------------------------------|---|-----------------------------------------|---|-----------------------------------------|---|
|                |      | Found                                   | C | Found                                   | C | Found                                   | C | Found                                   | C |
| <b>Mercury</b> | 0.20 | 0.20                                    | U | 0.20                                    | U | 0.20                                    | U | 0.20                                    | U |

Italicized analytes were not requested for this sequence.



3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Concentration Units: ug/L

|                |      |                                         |   |       |   |       |   |       |   |
|----------------|------|-----------------------------------------|---|-------|---|-------|---|-------|---|
| Analyte        | RL   | CCB 240-335675/11-A<br>07/12/2018 18:17 |   |       |   |       |   |       |   |
|                |      | Found                                   | C | Found | C | Found | C | Found | C |
| <b>Mercury</b> | 0.20 | 0.20                                    | U |       |   |       |   |       |   |

Italicized analytes were not requested for this sequence.

2B-IN  
CRQL CHECK STANDARD  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Method: 7470A Instrument ID: H3  
Lab Sample ID: CRA 240-335675/9-A Concentration Units: ug/L  
CRQL Check Standard Source: MTHGCALW\_01869

| Analyte | CRQL Check Standard |       |            |       |        |
|---------|---------------------|-------|------------|-------|--------|
|         | True                | Found | Qualifiers | %R(1) | Limits |
| Mercury | 0.200               | 0.218 |            | 109   | 50-150 |

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

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Instrument ID: NOEQUIP Analysis Method: SM 2340B

Start Date: 07/23/2018 08:05 End Date: 07/23/2018 08:53

[illegible]

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12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Prep Method: 3005A

| Lab<br>Sample<br>ID | Preparation<br>Date | Prep<br>Batch | Initial<br>Weight | Initial<br>Volume<br>(mL) | Final<br>Volume<br>(mL) |
|---------------------|---------------------|---------------|-------------------|---------------------------|-------------------------|
| MB 240-335639/1-A   | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| LCS 240-335639/2-A  | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-21        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-21 MS     | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-21 MSD    | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-22        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-23        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-24        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-25        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-26        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-27        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-28        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-29        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-30        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-31        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-32        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-33        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-34        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-35        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |
| 240-98276-36        | 07/11/2018 14:00    | 335639        |                   | 50                        | 50                      |

3-IN  
METHOD BLANK  
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Concentration Units: ug/L Lab Sample ID: MB 240-335639/1-A  
 Instrument Code: I10 Batch No.: 336877

| CAS No.   | Analyte    | Concentration | C | Q | Method |
|-----------|------------|---------------|---|---|--------|
| 7440-36-0 | Antimony   | 2.0           | U |   | 6020   |
| 7440-38-2 | Arsenic    | 5.0           | U |   | 6020   |
| 7440-39-3 | Barium     | 5.0           | U |   | 6020   |
| 7440-41-7 | Beryllium  | 1.0           | U |   | 6020   |
| 7440-43-9 | Cadmium    | 1.0           | U |   | 6020   |
| 7440-47-3 | Chromium   | 2.0           | U |   | 6020   |
| 7440-48-4 | Cobalt     | 1.0           | U |   | 6020   |
| 7440-50-8 | Copper     | 2.0           | U |   | 6020   |
| 7439-92-1 | Lead       | 1.0           | U |   | 6020   |
| 7439-98-7 | Molybdenum | 5.0           | U |   | 6020   |
| 7440-02-0 | Nickel     | 2.0           | U |   | 6020   |
| 7782-49-2 | Selenium   | 5.0           | U |   | 6020   |
| 7440-22-4 | Silver     | 1.0           | U |   | 6020   |
| 7440-28-0 | Thallium   | 1.0           | U |   | 6020   |
| 7440-62-2 | Vanadium   | 5.0           | U |   | 6020   |
| 7440-66-6 | Zinc       | 20            | U |   | 6020   |
| 7440-70-2 | Calcium    | 1000          | U |   | 6020   |
| 7439-95-4 | Magnesium  | 1000          | U |   | 6020   |
| 7440-33-7 | Tungsten   | 10            | U |   | 6020   |

7A-IN  
LAB CONTROL SAMPLE  
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-335639/2-A

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

Sample Matrix: Water

LCS Source: MTICPMSB\_00035

| Analyte    | Water (ug/L) |       |   |     |        |     |   |        |
|------------|--------------|-------|---|-----|--------|-----|---|--------|
|            | True         | Found | C | %R  | Limits |     | Q | Method |
| Antimony   | 100          | 87.3  |   | 87  | 80     | 120 |   | 6020   |
| Arsenic    | 1000         | 1020  |   | 102 | 80     | 120 |   | 6020   |
| Barium     | 1000         | 1040  |   | 104 | 80     | 120 |   | 6020   |
| Beryllium  | 1000         | 894   |   | 89  | 80     | 120 |   | 6020   |
| Cadmium    | 1000         | 1010  |   | 101 | 80     | 120 |   | 6020   |
| Chromium   | 1000         | 1050  |   | 105 | 80     | 120 |   | 6020   |
| Cobalt     | 1000         | 1110  |   | 111 | 80     | 120 |   | 6020   |
| Copper     | 1000         | 1100  |   | 110 | 80     | 120 |   | 6020   |
| Lead       | 1000         | 999   |   | 100 | 80     | 120 |   | 6020   |
| Molybdenum | 100          | 91.8  |   | 92  | 80     | 120 |   | 6020   |
| Nickel     | 1000         | 1100  |   | 110 | 80     | 120 |   | 6020   |
| Selenium   | 1000         | 1020  |   | 102 | 80     | 120 |   | 6020   |
| Silver     | 100          | 94.8  |   | 95  | 80     | 120 |   | 6020   |
| Thallium   | 250          | 251   |   | 100 | 80     | 120 |   | 6020   |
| Vanadium   | 1000         | 1030  |   | 103 | 80     | 120 |   | 6020   |
| Zinc       | 1000         | 1040  |   | 104 | 80     | 120 |   | 6020   |
| Calcium    | 10000        | 9640  |   | 96  | 80     | 120 |   | 6020   |
| Magnesium  | 10000        | 9470  |   | 95  | 80     | 120 |   | 6020   |
| Tungsten   | 100          | 92.0  |   | 92  | 80     | 120 |   | 6020   |

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

FORM VIIA - IN

5A-IN  
MATRIX SPIKE SAMPLE RECOVERY  
METALS - DISSOLVED

Client ID: MSA-SW37A-070918 MS

Lab ID: 240-98276-1 MS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Matrix: Water

Concentration Units: ug/L

% Solids: \_\_\_\_\_

| Analyte    | SSR<br>C | Sample<br>Result (SR)<br>C | Spike<br>Added (SA) | %R  | Control<br>Limit<br>%R | Q | Method |
|------------|----------|----------------------------|---------------------|-----|------------------------|---|--------|
| Antimony   | 91.9     | 2.0 U                      | 100                 | 92  | 75-125                 |   | 6020   |
| Arsenic    | 1030     | 1.5 J                      | 1000                | 103 | 75-125                 |   | 6020   |
| Barium     | 1060     | 12                         | 1000                | 105 | 75-125                 |   | 6020   |
| Beryllium  | 984      | 1.0 U                      | 1000                | 98  | 75-125                 |   | 6020   |
| Cadmium    | 1000     | 1.0 U                      | 1000                | 100 | 75-125                 |   | 6020   |
| Chromium   | 1030     | 2.0 U                      | 1000                | 103 | 75-125                 |   | 6020   |
| Cobalt     | 1070     | 1.0 U                      | 1000                | 107 | 75-125                 |   | 6020   |
| Copper     | 1050     | 5.2                        | 1000                | 104 | 75-125                 |   | 6020   |
| Lead       | 975      | 1.0 U                      | 1000                | 97  | 75-125                 |   | 6020   |
| Molybdenum | 101      | 1.8 J                      | 100                 | 99  | 75-125                 |   | 6020   |
| Nickel     | 1050     | 2.0 U                      | 1000                | 105 | 75-125                 |   | 6020   |
| Selenium   | 1000     | 5.0 U                      | 1000                | 100 | 75-125                 |   | 6020   |
| Silver     | 95.7     | 1.0 U                      | 100                 | 96  | 75-125                 |   | 6020   |
| Thallium   | 246      | 1.0 U                      | 250                 | 99  | 75-125                 |   | 6020   |
| Vanadium   | 1010     | 1.0 J                      | 1000                | 101 | 75-125                 |   | 6020   |
| Zinc       | 993      | 20 U                       | 1000                | 99  | 75-125                 |   | 6020   |
| Calcium    | 35600    | 24000                      | 10000               | 117 | 75-125                 |   | 6020   |
| Magnesium  | 50300    | 42000                      | 10000               | 81  | 75-125                 | 4 | 6020   |
| Tungsten   | 97.3     | 10 U                       | 100                 | 97  | 75-125                 |   | 6020   |
| Mercury    | 1.14     | 0.20 U                     | 1.00                | 114 | 80-120                 |   | 7470A  |

SSR = Spiked Sample Result

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

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

Client ID: MSA-SW37A-070918 MSD

Lab ID: 240-98276-1 MSD

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Matrix: Water

Concentration Units: ug/L

% Solids: \_\_\_\_\_

| Analyte    | (SDR)<br>C | Spike<br>Added (SA) | %R  | Control<br>Limit<br>%R | RPD | RPD<br>Limit | Q  | Method |
|------------|------------|---------------------|-----|------------------------|-----|--------------|----|--------|
| Antimony   | 93.7       | 100                 | 94  | 75-125                 | 2   | 20           |    | 6020   |
| Arsenic    | 1070       | 1000                | 107 | 75-125                 | 4   | 20           |    | 6020   |
| Barium     | 1140       | 1000                | 113 | 75-125                 | 7   | 20           |    | 6020   |
| Beryllium  | 1040       | 1000                | 104 | 75-125                 | 5   | 20           |    | 6020   |
| Cadmium    | 1020       | 1000                | 102 | 75-125                 | 2   | 20           |    | 6020   |
| Chromium   | 1060       | 1000                | 106 | 75-125                 | 3   | 20           |    | 6020   |
| Cobalt     | 1110       | 1000                | 111 | 75-125                 | 4   | 20           |    | 6020   |
| Copper     | 1070       | 1000                | 107 | 75-125                 | 2   | 20           |    | 6020   |
| Lead       | 979        | 1000                | 98  | 75-125                 | 0   | 20           |    | 6020   |
| Molybdenum | 101        | 100                 | 99  | 75-125                 | 0   | 20           |    | 6020   |
| Nickel     | 1070       | 1000                | 107 | 75-125                 | 2   | 20           |    | 6020   |
| Selenium   | 1040       | 1000                | 104 | 75-125                 | 4   | 20           |    | 6020   |
| Silver     | 96.6       | 100                 | 97  | 75-125                 | 1   | 20           |    | 6020   |
| Thallium   | 247        | 250                 | 99  | 75-125                 | 0   | 20           |    | 6020   |
| Vanadium   | 1060       | 1000                | 106 | 75-125                 | 5   | 20           |    | 6020   |
| Zinc       | 1020       | 1000                | 102 | 75-125                 | 3   | 20           |    | 6020   |
| Calcium    | 36900      | 10000               | 130 | 75-125                 | 4   | 20           | F1 | 6020   |
| Magnesium  | 53700      | 10000               | 115 | 75-125                 | 7   | 20           | 4  | 6020   |
| Tungsten   | 101        | 100                 | 101 | 75-125                 | 4   | 20           |    | 6020   |
| Mercury    | 1.06       | 1.00                | 106 | 80-120                 | 7   | 20           |    | 7470A  |

SDR = Sample Duplicate Result

Calcium not a target analyte

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



8-IN  
ICP-AES AND ICP-MS SERIAL DILUTIONS  
METALS - DISSOLVED

Lab ID: 240-98276-1

SDG No:

Lab Name: TestAmerica Canton

Job No: 240-98276-1

Matrix: Water

Concentration Units: ug/L

| Analyte    | Initial Sample<br>Result (I) C |   | Serial<br>Dilution<br>Result (S) C |   | %<br>Difference | Q | Method |
|------------|--------------------------------|---|------------------------------------|---|-----------------|---|--------|
| Antimony   | 2.0                            | U | 10                                 | U | NC              |   | 6020   |
| Arsenic    | 1.5                            | J | 25                                 | U | NC              |   | 6020   |
| Barium     | 12                             |   | 11.9                               | J | NC              |   | 6020   |
| Beryllium  | 1.0                            | U | 5.0                                | U | NC              |   | 6020   |
| Cadmium    | 1.0                            | U | 5.0                                | U | NC              |   | 6020   |
| Chromium   | 2.0                            | U | 10                                 | U | NC              |   | 6020   |
| Cobalt     | 1.0                            | U | 5.0                                | U | NC              |   | 6020   |
| Copper     | 5.2                            |   | 10                                 | U | NC              |   | 6020   |
| Lead       | 1.0                            | U | 5.0                                | U | NC              |   | 6020   |
| Molybdenum | 1.8                            | J | 25                                 | U | NC              |   | 6020   |
| Nickel     | 2.0                            | U | 10                                 | U | NC              |   | 6020   |
| Selenium   | 5.0                            | U | 25                                 | U | NC              |   | 6020   |
| Silver     | 1.0                            | U | 5.0                                | U | NC              |   | 6020   |
| Thallium   | 1.0                            | U | 5.0                                | U | NC              |   | 6020   |
| Vanadium   | 1.0                            | J | 25                                 | U | NC              |   | 6020   |
| Zinc       | 20                             | U | 100                                | U | NC              |   | 6020   |
| Calcium    | 24000                          |   | 24000                              |   | NC              |   | 6020   |
| Magnesium  | 42000                          |   | 42400                              |   | NC              |   | 6020   |
| Tungsten   | 10                             | U | 50                                 | U | NC              |   | 6020   |

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

FORM VIII-IN

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Prep Method: 3005A

| Lab<br>Sample<br>ID | Preparation<br>Date | Prep<br>Batch | Initial<br>Weight | Initial<br>Volume<br>(mL) | Final<br>Volume<br>(mL) |
|---------------------|---------------------|---------------|-------------------|---------------------------|-------------------------|
| MB 240-335644/1-A   | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| LCS 240-335644/2-A  | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-1         | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-1 MS      | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-1 MSD     | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-2         | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-3         | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-4         | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-5         | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-6         | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-7         | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-8         | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-9         | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-10        | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-11        | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-12        | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-13        | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-14        | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-15        | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-16        | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-17        | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-18        | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-19        | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |
| 240-98276-20        | 07/11/2018 14:00    | 335644        |                   | 50                        | 50                      |

3-IN  
METHOD BLANK  
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
 SDG No.: \_\_\_\_\_  
 Concentration Units: ug/L Lab Sample ID: MB 240-335644/1-A  
 Instrument Code: I10 Batch No.: 336877

| CAS No.   | Analyte    | Concentration | C | Q | Method |
|-----------|------------|---------------|---|---|--------|
| 7440-36-0 | Antimony   | 2.0           | U |   | 6020   |
| 7440-38-2 | Arsenic    | 5.0           | U |   | 6020   |
| 7440-39-3 | Barium     | 5.0           | U |   | 6020   |
| 7440-43-9 | Cadmium    | 1.0           | U |   | 6020   |
| 7440-47-3 | Chromium   | 2.0           | U |   | 6020   |
| 7440-48-4 | Cobalt     | 1.0           | U |   | 6020   |
| 7440-50-8 | Copper     | 2.0           | U |   | 6020   |
| 7439-92-1 | Lead       | 1.0           | U |   | 6020   |
| 7439-98-7 | Molybdenum | 5.0           | U |   | 6020   |
| 7440-02-0 | Nickel     | 2.0           | U |   | 6020   |
| 7782-49-2 | Selenium   | 5.0           | U |   | 6020   |
| 7440-22-4 | Silver     | 1.0           | U |   | 6020   |
| 7440-28-0 | Thallium   | 1.0           | U |   | 6020   |
| 7440-62-2 | Vanadium   | 5.0           | U |   | 6020   |
| 7440-66-6 | Zinc       | 20            | U |   | 6020   |
| 7440-70-2 | Calcium    | 1000          | U |   | 6020   |
| 7439-95-4 | Magnesium  | 1000          | U |   | 6020   |
| 7440-33-7 | Tungsten   | 10            | U |   | 6020   |

3-IN  
METHOD BLANK  
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-98276-1  
SDG No.: \_\_\_\_\_  
Concentration Units: ug/L Lab Sample ID: MB 240-335644/1-A  
Instrument Code: I10 Batch No.: 337207

| CAS No.   | Analyte   | Concentration | C | Q | Method |
|-----------|-----------|---------------|---|---|--------|
| 7440-41-7 | Beryllium | 1.0           | U |   | 6020   |

7A-IN  
LAB CONTROL SAMPLE  
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-335644/2-A

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

Sample Matrix: Water

LCS Source: MTICPMSB\_00035

| Analyte    | Water (ug/L) |       |   |     |        |     |   |        |
|------------|--------------|-------|---|-----|--------|-----|---|--------|
|            | True         | Found | C | %R  | Limits |     | Q | Method |
| Antimony   | 100          | 89.9  |   | 90  | 80     | 120 |   | 6020   |
| Arsenic    | 1000         | 1020  |   | 102 | 80     | 120 |   | 6020   |
| Barium     | 1000         | 1020  |   | 102 | 80     | 120 |   | 6020   |
| Cadmium    | 1000         | 1020  |   | 102 | 80     | 120 |   | 6020   |
| Chromium   | 1000         | 1060  |   | 106 | 80     | 120 |   | 6020   |
| Cobalt     | 1000         | 1120  |   | 112 | 80     | 120 |   | 6020   |
| Copper     | 1000         | 1090  |   | 109 | 80     | 120 |   | 6020   |
| Lead       | 1000         | 989   |   | 99  | 80     | 120 |   | 6020   |
| Molybdenum | 100          | 92.0  |   | 92  | 80     | 120 |   | 6020   |
| Nickel     | 1000         | 1110  |   | 111 | 80     | 120 |   | 6020   |
| Selenium   | 1000         | 1030  |   | 103 | 80     | 120 |   | 6020   |
| Silver     | 100          | 96.0  |   | 96  | 80     | 120 |   | 6020   |
| Thallium   | 250          | 252   |   | 101 | 80     | 120 |   | 6020   |
| Vanadium   | 1000         | 1010  |   | 101 | 80     | 120 |   | 6020   |
| Zinc       | 1000         | 1060  |   | 106 | 80     | 120 |   | 6020   |
| Calcium    | 10000        | 9640  |   | 96  | 80     | 120 |   | 6020   |
| Magnesium  | 10000        | 9490  |   | 95  | 80     | 120 |   | 6020   |
| Tungsten   | 100          | 95.7  |   | 96  | 80     | 120 |   | 6020   |

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

FORM VIIA - IN

7A-IN  
LAB CONTROL SAMPLE  
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-335644/2-A

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

Sample Matrix: Water

LCS Source: MTICPMSA\_00035

| Analyte   | Water (ug/L) |       |   |    |        |     |   |        |
|-----------|--------------|-------|---|----|--------|-----|---|--------|
|           | True         | Found | C | %R | Limits |     | Q | Method |
| Beryllium | 1000         | 950   |   | 95 | 80     | 120 |   | 6020   |

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

FORM VIIA - IN

5A-IN  
MATRIX SPIKE SAMPLE RECOVERY  
METALS - DISSOLVED

Client ID: MSA-SW42A-070918 MS

Lab ID: 240-98276-21 MS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Matrix: Water

Concentration Units: ug/L

% Solids: \_\_\_\_\_

| Analyte    | SSR<br>C | Sample<br>Result (SR)<br>C | Spike<br>Added (SA) | %R  | Control<br>Limit<br>%R | Q | Method |
|------------|----------|----------------------------|---------------------|-----|------------------------|---|--------|
| Antimony   | 90.1     | 2.0 U                      | 100                 | 90  | 75-125                 |   | 6020   |
| Arsenic    | 1040     | 1.7 J                      | 1000                | 104 | 75-125                 |   | 6020   |
| Barium     | 1090     | 13                         | 1000                | 108 | 75-125                 |   | 6020   |
| Beryllium  | 987      | 0.44 J                     | 1000                | 99  | 75-125                 |   | 6020   |
| Cadmium    | 994      | 1.0 U                      | 1000                | 99  | 75-125                 |   | 6020   |
| Chromium   | 1050     | 2.0 U                      | 1000                | 105 | 75-125                 |   | 6020   |
| Cobalt     | 1100     | 0.33 J                     | 1000                | 110 | 75-125                 |   | 6020   |
| Copper     | 1040     | 6.7                        | 1000                | 103 | 75-125                 |   | 6020   |
| Lead       | 960      | 0.60 J                     | 1000                | 96  | 75-125                 |   | 6020   |
| Molybdenum | 99.9     | 1.8 J                      | 100                 | 98  | 75-125                 |   | 6020   |
| Nickel     | 1060     | 2.0 U                      | 1000                | 106 | 75-125                 |   | 6020   |
| Selenium   | 1010     | 5.0 U                      | 1000                | 101 | 75-125                 |   | 6020   |
| Silver     | 95.3     | 1.0 U                      | 100                 | 95  | 75-125                 |   | 6020   |
| Thallium   | 241      | 1.0 U                      | 250                 | 96  | 75-125                 |   | 6020   |
| Vanadium   | 1030     | 1.4 J                      | 1000                | 103 | 75-125                 |   | 6020   |
| Zinc       | 999      | 20 U                       | 1000                | 100 | 75-125                 |   | 6020   |
| Calcium    | 35700    | 25000                      | 10000               | 110 | 75-125                 |   | 6020   |
| Magnesium  | 52700    | 45000                      | 10000               | 81  | 75-125                 | 4 | 6020   |
| Tungsten   | 95.9     | 10 U                       | 100                 | 96  | 75-125                 |   | 6020   |
| Mercury    | 1.15     | 0.20 U                     | 1.00                | 115 | 80-120                 |   | 7470A  |

SSR = Spiked Sample Result

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

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

Client ID: MSA-SW42A-070918 MSD

Lab ID: 240-98276-21 MSD

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Matrix: Water

Concentration Units: ug/L

% Solids: \_\_\_\_\_

| Analyte    | (SDR)<br>C | Spike<br>Added (SA) | %R  | Control<br>Limit<br>%R | RPD | RPD<br>Limit | Q | Method |
|------------|------------|---------------------|-----|------------------------|-----|--------------|---|--------|
| Antimony   | 91.7       | 100                 | 92  | 75-125                 | 2   | 20           |   | 6020   |
| Arsenic    | 1060       | 1000                | 106 | 75-125                 | 2   | 20           |   | 6020   |
| Barium     | 1100       | 1000                | 109 | 75-125                 | 1   | 20           |   | 6020   |
| Beryllium  | 1010       | 1000                | 101 | 75-125                 | 3   | 20           |   | 6020   |
| Cadmium    | 1000       | 1000                | 100 | 75-125                 | 1   | 20           |   | 6020   |
| Chromium   | 1050       | 1000                | 105 | 75-125                 | 0   | 20           |   | 6020   |
| Cobalt     | 1100       | 1000                | 110 | 75-125                 | 0   | 20           |   | 6020   |
| Copper     | 1070       | 1000                | 107 | 75-125                 | 3   | 20           |   | 6020   |
| Lead       | 991        | 1000                | 99  | 75-125                 | 3   | 20           |   | 6020   |
| Molybdenum | 102        | 100                 | 100 | 75-125                 | 2   | 20           |   | 6020   |
| Nickel     | 1070       | 1000                | 107 | 75-125                 | 1   | 20           |   | 6020   |
| Selenium   | 1030       | 1000                | 103 | 75-125                 | 1   | 20           |   | 6020   |
| Silver     | 97.0       | 100                 | 97  | 75-125                 | 2   | 20           |   | 6020   |
| Thallium   | 245        | 250                 | 98  | 75-125                 | 2   | 20           |   | 6020   |
| Vanadium   | 1050       | 1000                | 105 | 75-125                 | 1   | 20           |   | 6020   |
| Zinc       | 1020       | 1000                | 102 | 75-125                 | 2   | 20           |   | 6020   |
| Calcium    | 35700      | 10000               | 109 | 75-125                 | 0   | 20           |   | 6020   |
| Magnesium  | 53800      | 10000               | 92  | 75-125                 | 2   | 20           | 4 | 6020   |
| Tungsten   | 98.7       | 100                 | 99  | 75-125                 | 3   | 20           |   | 6020   |
| Mercury    | 1.05       | 1.00                | 105 | 80-120                 | 9   | 20           |   | 7470A  |

SDR = Sample Duplicate Result

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



8-IN  
ICP-AES AND ICP-MS SERIAL DILUTIONS  
METALS - DISSOLVED

Lab ID: 240-98276-21

SDG No:

Lab Name: TestAmerica Canton

Job No: 240-98276-1

Matrix: Water

Concentration Units: ug/L

| Analyte    | Initial Sample<br>Result (I) C |   | Serial<br>Dilution<br>Result (S) C |   | %<br>Difference | Q | Method |
|------------|--------------------------------|---|------------------------------------|---|-----------------|---|--------|
| Antimony   | 2.0                            | U | 10                                 | U | NC              |   | 6020   |
| Arsenic    | 1.7                            | J | 25                                 | U | NC              |   | 6020   |
| Barium     | 13                             |   | 12.5                               | J | NC              |   | 6020   |
| Beryllium  | 0.44                           | J | 5.0                                | U | NC              |   | 6020   |
| Cadmium    | 1.0                            | U | 5.0                                | U | NC              |   | 6020   |
| Chromium   | 2.0                            | U | 10                                 | U | NC              |   | 6020   |
| Cobalt     | 0.33                           | J | 5.0                                | U | NC              |   | 6020   |
| Copper     | 6.7                            |   | 10                                 | U | NC              |   | 6020   |
| Lead       | 0.60                           | J | 5.0                                | U | NC              |   | 6020   |
| Molybdenum | 1.8                            | J | 25                                 | U | NC              |   | 6020   |
| Nickel     | 2.0                            | U | 10                                 | U | NC              |   | 6020   |
| Selenium   | 5.0                            | U | 25                                 | U | NC              |   | 6020   |
| Silver     | 1.0                            | U | 5.0                                | U | NC              |   | 6020   |
| Thallium   | 1.0                            | U | 5.0                                | U | NC              |   | 6020   |
| Vanadium   | 1.4                            | J | 25                                 | U | NC              |   | 6020   |
| Zinc       | 20                             | U | 100                                | U | NC              |   | 6020   |
| Calcium    | 25000                          |   | 24400                              |   | NC              |   | 6020   |
| Magnesium  | 45000                          |   | 43700                              |   | NC              |   | 6020   |
| Tungsten   | 10                             | U | 50                                 | U | NC              |   | 6020   |

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

FORM VIII-IN

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Prep Method: 7470A

| Lab<br>Sample<br>ID | Preparation<br>Date | Prep<br>Batch | Initial<br>Weight | Initial<br>Volume<br>(mL) | Final<br>Volume<br>(mL) |
|---------------------|---------------------|---------------|-------------------|---------------------------|-------------------------|
| MB 240-335642/1-A   | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| LCS 240-335642/2-A  | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-21        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-21 MS     | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-21 MSD    | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-22        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-23        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-24        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-25        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-26        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-27        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-28        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-29        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-30        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-31        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-32        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-33        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-34        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-35        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |
| 240-98276-36        | 07/11/2018 14:00    | 335642        |                   | 50                        | 50                      |

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Concentration Units: ug/L Lab Sample ID: MB 240-335642/1-A

Instrument Code: H3 Batch No.: 335916

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

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 240-335642/2-A

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

Sample Matrix: Water

LCS Source: MTHGCALW\_01869

| Analyte | Water (ug/L) |       |   |    |        |     |   |        |
|---------|--------------|-------|---|----|--------|-----|---|--------|
|         | True         | Found | C | %R | Limits |     | Q | Method |
| Mercury | 5.00         | 4.84  |   | 97 | 80     | 120 |   | 7470A  |

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

FORM VIIA - IN

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Prep Method: 7470A

| Lab<br>Sample<br>ID | Preparation<br>Date | Prep<br>Batch | Initial<br>Weight | Initial<br>Volume<br>(mL) | Final<br>Volume<br>(mL) |
|---------------------|---------------------|---------------|-------------------|---------------------------|-------------------------|
| MB 240-335646/1-A   | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| LCS 240-335646/2-A  | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-1         | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-1 MS      | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-1 MSD     | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-2         | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-3         | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-4         | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-5         | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-6         | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-7         | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-8         | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-9         | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-10        | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-11        | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-12        | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-13        | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-14        | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-15        | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-16        | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-17        | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-18        | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-19        | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |
| 240-98276-20        | 07/11/2018 12:00    | 335646        |                   | 50                        | 50                      |

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Concentration Units: ug/L Lab Sample ID: MB 240-335646/1-A

Instrument Code: H3 Batch No.: 335916

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

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 240-335646/2-A

Lab Name: TestAmerica Canton

Job No.: 240-98276-1

Sample Matrix: Water

LCS Source: MTHGCALW\_01869

| Analyte | Water (ug/L) |       |   |    |        |     |   |        |
|---------|--------------|-------|---|----|--------|-----|---|--------|
|         | True         | Found | C | %R | Limits |     | Q | Method |
| Mercury | 5.00         | 4.70  |   | 94 | 80     | 120 |   | 7470A  |

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

FORM VIIA - IN

## METALS BATCH WORKSHEET

Lab Name: TestAmerica CantonJob No.: 240-98276-1

SDG No.: \_\_\_\_\_

Batch Number: 335639Batch Start Date: 07/11/18 14:00Batch Analyst: Butke, MichaelBatch Method: 3005ABatch End Date: 07/11/18 22:00

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | MTICPMS2 00033 | MTICPMSA 00035 | MTICPMSB 00035 | MTTMHCL 00208 |
|-----------------------|------------------|--------------|-------|---------------|-------------|----------------|----------------|----------------|---------------|
| MB 240-335639/1       |                  | 3005A, 6020  |       | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| LCS<br>240-335639/2   |                  | 3005A, 6020  |       | 50 mL         | 50 mL       | 0.5 mL         | 0.5 mL         | 0.5 mL         | 2.5 mL        |
| 240-98276-D-21        | MSA-SW42A-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-21<br>MS  | MSA-SW42A-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       | 0.5 mL         | 0.5 mL         | 0.5 mL         | 2.5 mL        |
| 240-98276-D-21<br>MSD | MSA-SW42A-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       | 0.5 mL         | 0.5 mL         | 0.5 mL         | 2.5 mL        |
| 240-98276-D-22        | MSA-SW42B-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-23        | MSA-SW42C-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-24        | MSA-SW42D-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-25        | MSA-SW43A-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-26        | MSA-SW43B-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-27        | MSA-SW43C-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-28        | MSA-SW43D-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-29        | MSA-SW44A-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-30        | MSA-SW44B-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-31        | MSA-SW44C-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-32        | MSA-SW44D-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-33        | MSA-SW45A-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-34        | MSA-SW45B-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-35        | MSA-SW45C-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-36        | MSA-SW45D-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | MTTMHNO3 00160 |  |  |  |  |  |
|-----------------------|------------------|--------------|-------|----------------|--|--|--|--|--|
| MB 240-335639/1       |                  | 3005A, 6020  |       | 1 mL           |  |  |  |  |  |
| LCS<br>240-335639/2   |                  | 3005A, 6020  |       | 1 mL           |  |  |  |  |  |
| 240-98276-D-21        | MSA-SW42A-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-21<br>MS  | MSA-SW42A-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-21<br>MSD | MSA-SW42A-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-22        | MSA-SW42B-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



## METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Batch Number: 335639 Batch Start Date: 07/11/18 14:00 Batch Analyst: Butke, MichaelBatch Method: 3005A Batch End Date: 07/11/18 22:00

| Lab Sample ID  | Client Sample ID | Method Chain | Basis | MTTMHNO3 00160 |  |  |  |  |  |
|----------------|------------------|--------------|-------|----------------|--|--|--|--|--|
| 240-98276-D-23 | MSA-SW42C-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-24 | MSA-SW42D-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-25 | MSA-SW43A-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-26 | MSA-SW43B-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-27 | MSA-SW43C-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-28 | MSA-SW43D-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-29 | MSA-SW44A-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-30 | MSA-SW44B-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-31 | MSA-SW44C-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-32 | MSA-SW44D-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-33 | MSA-SW45A-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-34 | MSA-SW45B-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-35 | MSA-SW45C-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-36 | MSA-SW45D-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |

| Batch Notes                       |                       |
|-----------------------------------|-----------------------|
| Batch Comment                     | filter paper 70602101 |
| Temperature - Corrected - End     | temp log Degrees C    |
| Temperature - Corrected - Start   | temp log Degrees C    |
| Digestion Unit ID                 | hb0                   |
| Pipette/Syringe/Dispenser ID      | mp3                   |
| Thermometer ID                    | temp log              |
| Digestion Tube/Cup ID             | 1802043               |
| Temperature - Uncorrected - End   | temp log Degrees C    |
| Temperature - Uncorrected - Start | temp log Degrees C    |

| Basis | Basis Description |
|-------|-------------------|
| D     | Dissolved         |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## METALS BATCH WORKSHEET

Lab Name: TestAmerica CantonJob No.: 240-98276-1

SDG No.: \_\_\_\_\_

Batch Number: 335644Batch Start Date: 07/11/18 14:00Batch Analyst: Butke, MichaelBatch Method: 3005ABatch End Date: 07/11/18 22:00

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | MTICPMS2 00033 | MTICPMSA 00035 | MTICPMSB 00035 | MTTMHCL 00208 |
|----------------------|------------------|--------------|-------|---------------|-------------|----------------|----------------|----------------|---------------|
| MB 240-335644/1      |                  | 3005A, 6020  |       | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| LCS<br>240-335644/2  |                  | 3005A, 6020  |       | 50 mL         | 50 mL       | 0.5 mL         | 0.5 mL         | 0.5 mL         | 2.5 mL        |
| 240-98276-D-1        | MSA-SW37A-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-1<br>MS  | MSA-SW37A-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       | 0.5 mL         | 0.5 mL         | 0.5 mL         | 2.5 mL        |
| 240-98276-D-1<br>MSD | MSA-SW37A-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       | 0.5 mL         | 0.5 mL         | 0.5 mL         | 2.5 mL        |
| 240-98276-D-2        | MSA-SW37B-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-3        | MSA-SW37C-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-4        | MSA-SW37D-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-5        | MSA-SW38A-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-6        | MSA-SW38B-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-7        | MSA-SW38C-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-8        | MSA-SW38D-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-9        | MSA-SW39A-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-10       | MSA-SW39B-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-11       | MSA-SW39C-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-12       | MSA-SW39D-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-13       | MSA-SW40A-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-14       | MSA-SW40B-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-15       | MSA-SW40C-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-16       | MSA-SW40D-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-17       | MSA-SW41A-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-18       | MSA-SW41B-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-19       | MSA-SW41C-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |
| 240-98276-D-20       | MSA-SW41D-070918 | 3005A, 6020  | D     | 50 mL         | 50 mL       |                |                |                | 2.5 mL        |

| Lab Sample ID       | Client Sample ID | Method Chain | Basis | MTTMHNO3 00160 |  |  |  |  |
|---------------------|------------------|--------------|-------|----------------|--|--|--|--|
| MB 240-335644/1     |                  | 3005A, 6020  |       | 1 mL           |  |  |  |  |
| LCS<br>240-335644/2 |                  | 3005A, 6020  |       | 1 mL           |  |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Batch Number: 335644 Batch Start Date: 07/11/18 14:00 Batch Analyst: Butke, MichaelBatch Method: 3005A Batch End Date: 07/11/18 22:00

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | MTTMHNO3 00160 |  |  |  |  |  |
|----------------------|------------------|--------------|-------|----------------|--|--|--|--|--|
| 240-98276-D-1        | MSA-SW37A-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-1<br>MS  | MSA-SW37A-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-1<br>MSD | MSA-SW37A-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-2        | MSA-SW37B-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-3        | MSA-SW37C-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-4        | MSA-SW37D-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-5        | MSA-SW38A-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-6        | MSA-SW38B-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-7        | MSA-SW38C-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-8        | MSA-SW38D-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-9        | MSA-SW39A-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-10       | MSA-SW39B-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-11       | MSA-SW39C-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-12       | MSA-SW39D-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-13       | MSA-SW40A-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-14       | MSA-SW40B-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-15       | MSA-SW40C-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-16       | MSA-SW40D-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-17       | MSA-SW41A-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-18       | MSA-SW41B-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-19       | MSA-SW41C-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |
| 240-98276-D-20       | MSA-SW41D-070918 | 3005A, 6020  | D     | 1 mL           |  |  |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Batch Number: 335644 Batch Start Date: 07/11/18 14:00 Batch Analyst: Butke, MichaelBatch Method: 3005A Batch End Date: 07/11/18 22:00

| Batch Notes                       |                       |
|-----------------------------------|-----------------------|
| Batch Comment                     | filter paper 70602101 |
| Temperature - Corrected - End     | temp log Degrees C    |
| Temperature - Corrected - Start   | temp log Degrees C    |
| Digestion Unit ID                 | hb1                   |
| Pipette/Syringe/Dispenser ID      | mp3                   |
| Thermometer ID                    | temp log              |
| Digestion Tube/Cup ID             | 1802043               |
| Temperature - Uncorrected - End   | temp log Degrees C    |
| Temperature - Uncorrected - Start | temp log Degrees C    |

| Basis | Basis Description |
|-------|-------------------|
| D     | Dissolved         |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## METALS BATCH WORKSHEET

Lab Name: TestAmerica CantonJob No.: 240-98276-1

SDG No.: \_\_\_\_\_

Batch Number: 335642Batch Start Date: 07/11/18 14:00Batch Analyst: Butke, MichaelBatch Method: 7470ABatch End Date: 07/11/18 16:00

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | K2S2O8 00085 | MTH2S04 00059 | MTHGCLW 01869 | MTKMNO4W 00166 |
|-----------------------|------------------|--------------|-------|---------------|-------------|--------------|---------------|---------------|----------------|
| MB 240-335642/1       |                  | 7470A, 7470A |       | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| LCS<br>240-335642/2   |                  | 7470A, 7470A |       | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        | 2.5 mL        | 7.5 mL         |
| 240-98276-D-21        | MSA-SW42A-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-21<br>MS  | MSA-SW42A-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        | 0.5 mL        | 7.5 mL         |
| 240-98276-D-21<br>MSD | MSA-SW42A-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        | 0.5 mL        | 7.5 mL         |
| 240-98276-D-22        | MSA-SW42B-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-23        | MSA-SW42C-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-24        | MSA-SW42D-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-25        | MSA-SW43A-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-26        | MSA-SW43B-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-27        | MSA-SW43C-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-28        | MSA-SW43D-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-29        | MSA-SW44A-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-30        | MSA-SW44B-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-31        | MSA-SW44C-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-32        | MSA-SW44D-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-33        | MSA-SW45A-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-34        | MSA-SW45B-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-35        | MSA-SW45C-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-36        | MSA-SW45D-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | MTTMHNO3 00160 |  |  |  |  |  |
|-----------------------|------------------|--------------|-------|----------------|--|--|--|--|--|
| MB 240-335642/1       |                  | 7470A, 7470A |       | 1.25 mL        |  |  |  |  |  |
| LCS<br>240-335642/2   |                  | 7470A, 7470A |       | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-21        | MSA-SW42A-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-21<br>MS  | MSA-SW42A-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-21<br>MSD | MSA-SW42A-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-22        | MSA-SW42B-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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## METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Batch Number: 335642 Batch Start Date: 07/11/18 14:00 Batch Analyst: Butke, MichaelBatch Method: 7470A Batch End Date: 07/11/18 16:00

| Lab Sample ID  | Client Sample ID | Method Chain | Basis | MTTMHNO3 00160 |  |  |  |  |  |
|----------------|------------------|--------------|-------|----------------|--|--|--|--|--|
| 240-98276-D-23 | MSA-SW42C-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-24 | MSA-SW42D-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-25 | MSA-SW43A-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-26 | MSA-SW43B-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-27 | MSA-SW43C-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-28 | MSA-SW43D-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-29 | MSA-SW44A-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-30 | MSA-SW44B-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-31 | MSA-SW44C-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-32 | MSA-SW44D-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-33 | MSA-SW45A-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-34 | MSA-SW45B-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-35 | MSA-SW45C-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-36 | MSA-SW45D-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |

| Batch Notes                       |                         |
|-----------------------------------|-------------------------|
| Batch Comment                     | take out temps in range |
| Temperature - Corrected - End     | temp log Degrees C      |
| Temperature - Corrected - Start   | temp log Degrees C      |
| Digestion Unit ID                 | c1                      |
| Pipette/Syringe/Dispenser ID      | mp2, mp3                |
| Thermometer ID                    | temp log                |
| Digestion Tube/Cup ID             | 1802043                 |
| Temperature - Uncorrected - End   | temp log Degrees C      |
| Temperature - Uncorrected - Start | temp log Degrees C      |

| Basis | Basis Description |
|-------|-------------------|
| D     | Dissolved         |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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## METALS BATCH WORKSHEET

Lab Name: TestAmerica CantonJob No.: 240-98276-1

SDG No.: \_\_\_\_\_

Batch Number: 335646Batch Start Date: 07/11/18 12:00Batch Analyst: Butke, MichaelBatch Method: 7470ABatch End Date: 07/11/18 14:00

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | K2S2O8 00085 | MTH2S04 00059 | MTHGALW 01869 | MTKMNO4W 00166 |
|----------------------|------------------|--------------|-------|---------------|-------------|--------------|---------------|---------------|----------------|
| MB 240-335646/1      |                  | 7470A, 7470A |       | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| LCS<br>240-335646/2  |                  | 7470A, 7470A |       | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        | 2.5 mL        | 7.5 mL         |
| 240-98276-D-1        | MSA-SW37A-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-1<br>MS  | MSA-SW37A-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        | 0.5 mL        | 7.5 mL         |
| 240-98276-D-1<br>MSD | MSA-SW37A-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        | 0.5 mL        | 7.5 mL         |
| 240-98276-D-2        | MSA-SW37B-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-3        | MSA-SW37C-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-4        | MSA-SW37D-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-5        | MSA-SW38A-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-6        | MSA-SW38B-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-7        | MSA-SW38C-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-8        | MSA-SW38D-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-9        | MSA-SW39A-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-10       | MSA-SW39B-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-11       | MSA-SW39C-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-12       | MSA-SW39D-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-13       | MSA-SW40A-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-14       | MSA-SW40B-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-15       | MSA-SW40C-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-16       | MSA-SW40D-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-17       | MSA-SW41A-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-18       | MSA-SW41B-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-19       | MSA-SW41C-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |
| 240-98276-D-20       | MSA-SW41D-070918 | 7470A, 7470A | D     | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |               | 7.5 mL         |

| Lab Sample ID       | Client Sample ID | Method Chain | Basis | MTTMHNO3 00160 |  |  |  |  |  |
|---------------------|------------------|--------------|-------|----------------|--|--|--|--|--|
| MB 240-335646/1     |                  | 7470A, 7470A |       | 1.25 mL        |  |  |  |  |  |
| LCS<br>240-335646/2 |                  | 7470A, 7470A |       | 1.25 mL        |  |  |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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## METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Batch Number: 335646 Batch Start Date: 07/11/18 12:00 Batch Analyst: Butke, MichaelBatch Method: 7470A Batch End Date: 07/11/18 14:00

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | MTTMHNO3 00160 |  |  |  |  |  |
|----------------------|------------------|--------------|-------|----------------|--|--|--|--|--|
| 240-98276-D-1        | MSA-SW37A-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-1<br>MS  | MSA-SW37A-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-1<br>MSD | MSA-SW37A-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-2        | MSA-SW37B-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-3        | MSA-SW37C-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-4        | MSA-SW37D-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-5        | MSA-SW38A-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-6        | MSA-SW38B-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-7        | MSA-SW38C-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-8        | MSA-SW38D-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-9        | MSA-SW39A-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-10       | MSA-SW39B-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-11       | MSA-SW39C-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-12       | MSA-SW39D-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-13       | MSA-SW40A-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-14       | MSA-SW40B-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-15       | MSA-SW40C-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-16       | MSA-SW40D-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-17       | MSA-SW41A-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-18       | MSA-SW41B-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-19       | MSA-SW41C-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |
| 240-98276-D-20       | MSA-SW41D-070918 | 7470A, 7470A | D     | 1.25 mL        |  |  |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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## METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Batch Number: 335646 Batch Start Date: 07/11/18 12:00 Batch Analyst: Butke, MichaelBatch Method: 7470A Batch End Date: 07/11/18 14:00

| Batch Notes                       |                         |
|-----------------------------------|-------------------------|
| Batch Comment                     | take out temps in range |
| Temperature - Corrected - End     | temp log Degrees C      |
| Temperature - Corrected - Start   | temp log Degrees C      |
| Digestion Unit ID                 | c2                      |
| Pipette/Syringe/Dispenser ID      | mp2, mp3                |
| Thermometer ID                    | temp log                |
| Digestion Tube/Cup ID             | 1802043                 |
| Temperature - Uncorrected - End   | temp log Degrees C      |
| Temperature - Uncorrected - Start | temp log Degrees C      |

| Basis | Basis Description |
|-------|-------------------|
| D     | Dissolved         |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-98276-1

SDG No.: \_\_\_\_\_

Batch Number: 335675 Batch Start Date: 07/11/18 08:45 Batch Analyst: Colosi, Alexander JBatch Method: 7470A Batch End Date: 07/11/18 10:45

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | K2S2O8 00085 | MTH2S04 00059 | MTHGCALW 01869 | MTHgICV_00001<br>00364 |
|----------------------|------------------|--------------|-------|---------------|-------------|--------------|---------------|----------------|------------------------|
| ICV<br>240-335675/7  |                  | 7470A, 7470A |       | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |                | 2.5 mL                 |
| ICB<br>240-335675/8  |                  | 7470A, 7470A |       | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |                |                        |
| CRA<br>240-335675/9  |                  | 7470A, 7470A |       | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        | 0.1 mL         |                        |
| CCV<br>240-335675/10 |                  | 7470A, 7470A |       | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        | 2.5 mL         |                        |
| CCB<br>240-335675/11 |                  | 7470A, 7470A |       | 50 mL         | 50 mL       | 4 mL         | 2.5 mL        |                |                        |

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | MTKMN04W 00166 | MTTMHNO3 00160 |  |  |  |  |
|----------------------|------------------|--------------|-------|----------------|----------------|--|--|--|--|
| ICV<br>240-335675/7  |                  | 7470A, 7470A |       | 7.5 mL         | 1.25 mL        |  |  |  |  |
| ICB<br>240-335675/8  |                  | 7470A, 7470A |       | 7.5 mL         | 1.25 mL        |  |  |  |  |
| CRA<br>240-335675/9  |                  | 7470A, 7470A |       | 7.5 mL         | 1.25 mL        |  |  |  |  |
| CCV<br>240-335675/10 |                  | 7470A, 7470A |       | 7.5 mL         | 1.25 mL        |  |  |  |  |
| CCB<br>240-335675/11 |                  | 7470A, 7470A |       | 7.5 mL         | 1.25 mL        |  |  |  |  |

| Batch Notes                       |                        |
|-----------------------------------|------------------------|
| Batch Comment                     | take out temp in range |
| Temperature - Corrected - End     | temp log Degrees C     |
| Temperature - Corrected - Start   | temp log Degrees C     |
| Digestion Unit ID                 | B1                     |
| Pipette/Syringe/Dispenser ID      | L7, MP1, MP2           |
| Digestion Tube/Cup ID             | 1705110                |
| Temperature - Uncorrected - End   | temp log Degrees C     |
| Temperature - Uncorrected - Start | temp log Degrees C     |

| Basis | Basis Description |
|-------|-------------------|
|       |                   |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

7470A

Page 1 of 1



**TO:** M. MARTIN **DATE:** AUGUST 6, 2018  
**FROM:** MICHELLE L. WOEBER **COPIES:** DV FILE  
**SUBJECT:** INORGANIC DATA VALIDATION – HEXAVALENT CHROMIUM  
LOCKHEED MARTIN CORPORATION (LMC) – MARTIN STATE AIRPORT (MSA)  
FROG MORTAR CREEK  
SAMPLE DELIVERY GROUP (SDG) TLG-026  
**SAMPLES:** 36/Aqueous/Hexavalent Chromium

|                  |                  |                  |
|------------------|------------------|------------------|
| MSA-SW37A-070918 | MSA-SW37B-070918 | MSA-SW37C-070918 |
| MSA-SW37D-070918 | MSA-SW38A-070918 | MSA-SW38B-070918 |
| MSA-SW38C-070918 | MSA-SW38D-070918 | MSA-SW39A-070918 |
| MSA-SW39B-070918 | MSA-SW39C-070918 | MSA-SW39D-070918 |
| MSA-SW40A-070918 | MSA-SW40B-070918 | MSA-SW40C-070918 |
| MSA-SW40D-070918 | MSA-SW41A-070918 | MSA-SW41B-070918 |
| MSA-SW41C-070918 | MSA-SW41D-070918 | MSA-SW42A-070918 |
| MSA-SW42B-070918 | MSA-SW42C-070918 | MSA-SW42D-070918 |
| MSA-SW43A-070918 | MSA-SW43B-070918 | MSA-SW43C-070918 |
| MSA-SW43D-070918 | MSA-SW44A-070918 | MSA-SW44B-070918 |
| MSA-SW44C-070918 | MSA-SW44D-070918 | MSA-SW45A-070918 |
| MSA-SW45B-070918 | MSA-SW45C-070918 | MSA-SW45D-070918 |

#### Overview

The sample set for LMC – MSA Frog Mortar Creek, SDG TLG-026 consisted of thirty-six (36) aqueous environmental samples. All thirty-six (36) aqueous samples were analyzed for hexavalent chromium. No field duplicate pair was included in the sample delivery group (SDG).

The samples were collected by Tetra Tech, Inc. on July 9, 2018 and analyzed by ALS Environmental. All analyses were conducted in accordance with EPA Method 218.6 analytical and reporting protocols.

The data contained in these SDGs were validated with regard to the following parameters: data completeness, holding times and sample preservation, initial/continuing calibrations, laboratory method blank results, laboratory control sample results, matrix spike/matrix spike duplicate results, chromatographic resolution, analyte quantitation, and detection limits. Areas of concern are listed below.

#### Major

No major issues were identified.

#### Minor

No minor issues were identified.

#### Notes

All samples were properly preserved to a pH of 9.0 – 9.5 and analyzed within 24 hours of sample receipt.

The non-detected results were reported to the Method Detection Limit (MDL).

TO: M. MARTIN  
SDG: TLG-026

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**Executive Summary**

**Laboratory Performance:** None.

**Other Factors Affecting Data Quality:** None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review" (January 2017). The text of this report has been formulated to address only those areas affecting data quality.



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



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Tetra Tech, Inc.  
Joseph A. Samchuck  
Data Validation Manager

**Attachments:**

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

### Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

|           |                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>U</b>  | The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted detection limit.                                                                                                                                                                                                                                                               |
| <b>J</b>  | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).                                                                                   |
| <b>J+</b> | The result is an estimated quantity, but the result may be biased high.                                                                                                                                                                                                                                                                                                                         |
| <b>J-</b> | The result is an estimated quantity, but the result may be biased low.                                                                                                                                                                                                                                                                                                                          |
| <b>UJ</b> | The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.                                                                                                                                                                                                                                                             |
| <b>NJ</b> | The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.                                                                                                                                                                                                                                    |
| <b>R</b>  | The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.                                                                                                                                                                                                                   |
| <b>UR</b> | The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.                                                                                                                                                                                                                |
| <b>X</b>  | The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended. |

## **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 ( $< 2 \times$  IDL for inorganics and  $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors  $>40\%$  for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient  $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids  $<30\%$
- Z = Uncertainty at 2 standard deviations is greater than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed
- Z3 = Tentatively Identified Compound aldol condensate
- Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
- Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

|                                                                                              |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|----------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: TLG-026</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW37A-070918 |     |      | MSA-SW37B-070918 |     |      | MSA-SW37C-070918 |     |      | MSA-SW37D-070918 |     |      |
|                                                                                              | LAB_ID     | 2325107001       |     |      | 2325107002       |     |      | 2325107003       |     |      | 2325107004       |     |      |
|                                                                                              | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                              | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                              | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                              | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                              | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                    |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| HEXAVALENT CHROMIUM                                                                          |            | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      |



|                                                                                              |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|----------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: TLG-026</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW38A-070918 |     |      | MSA-SW38B-070918 |     |      | MSA-SW38C-070918 |     |      | MSA-SW38D-070918 |     |      |
|                                                                                              | LAB_ID     | 2325107005       |     |      | 2325107006       |     |      | 2325107007       |     |      | 2325107008       |     |      |
|                                                                                              | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                              | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                              | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                              | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                              | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                    |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| HEXAVALENT CHROMIUM                                                                          |            | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      |

|                                                                                              |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|----------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: TLG-026</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW39A-070918 |     |      | MSA-SW39B-070918 |     |      | MSA-SW39C-070918 |     |      | MSA-SW39D-070918 |     |      |
|                                                                                              | LAB_ID     | 2325107009       |     |      | 2325107010       |     |      | 2325107011       |     |      | 2325107012       |     |      |
|                                                                                              | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                              | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                              | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                              | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                              | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                    |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| HEXAVALENT CHROMIUM                                                                          |            | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      |

|                                                                                              |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|----------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: TLG-026</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW40A-070918 |     |      | MSA-SW40B-070918 |     |      | MSA-SW40C-070918 |     |      | MSA-SW40D-070918 |     |      |
|                                                                                              | LAB_ID     | 2325107013       |     |      | 2325107014       |     |      | 2325107015       |     |      | 2325107016       |     |      |
|                                                                                              | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                              | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                              | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                              | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                              | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                    |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| HEXAVALENT CHROMIUM                                                                          |            | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      |

|                                                                                              |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|----------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: TLG-026</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW41A-070918 |     |      | MSA-SW41B-070918 |     |      | MSA-SW41C-070918 |     |      | MSA-SW41D-070918 |     |      |
|                                                                                              | LAB_ID     | 2325107017       |     |      | 2325107018       |     |      | 2325107019       |     |      | 2325107020       |     |      |
|                                                                                              | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                              | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                              | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                              | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                              | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                    |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| HEXAVALENT CHROMIUM                                                                          |            | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      |

|                                                                                              |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|----------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: TLG-026</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW42A-070918 |     |      | MSA-SW42B-070918 |     |      | MSA-SW42C-070918 |     |      | MSA-SW42D-070918 |     |      |
|                                                                                              | LAB_ID     | 2325107021       |     |      | 2325107022       |     |      | 2325107023       |     |      | 2325107024       |     |      |
|                                                                                              | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                              | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                              | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                              | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                              | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                    |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| HEXAVALENT CHROMIUM                                                                          |            | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      |

|                                                                                              |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|----------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: TLG-026</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW43A-070918 |     |      | MSA-SW43B-070918 |     |      | MSA-SW43C-070918 |     |      | MSA-SW43D-070918 |     |      |
|                                                                                              | LAB_ID     | 2325107025       |     |      | 2325107026       |     |      | 2325107027       |     |      | 2325107028       |     |      |
|                                                                                              | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                              | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                              | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                              | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                              | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                    |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| HEXAVALENT CHROMIUM                                                                          |            | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      |

|                                                                                              |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|----------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: TLG-026</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW44A-070918 |     |      | MSA-SW44B-070918 |     |      | MSA-SW44C-070918 |     |      | MSA-SW44D-070918 |     |      |
|                                                                                              | LAB_ID     | 2325107029       |     |      | 2325107030       |     |      | 2325107031       |     |      | 2325107032       |     |      |
|                                                                                              | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                              | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                              | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                              | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                              | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                    |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| HEXAVALENT CHROMIUM                                                                          |            | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      |

|                                                                                              |            |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
|----------------------------------------------------------------------------------------------|------------|------------------|-----|------|------------------|-----|------|------------------|-----|------|------------------|-----|------|
| <b>PROJ_NO: 08424</b><br><b>SDG: TLG-026</b><br><b>FRACTION: MISC</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW45A-070918 |     |      | MSA-SW45B-070918 |     |      | MSA-SW45C-070918 |     |      | MSA-SW45D-070918 |     |      |
|                                                                                              | LAB_ID     | 2325107033       |     |      | 2325107034       |     |      | 2325107035       |     |      | 2325107036       |     |      |
|                                                                                              | SAMP_DATE  | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      | 7/9/2018         |     |      |
|                                                                                              | QC_TYPE    | NM               |     |      | NM               |     |      | NM               |     |      | NM               |     |      |
|                                                                                              | UNITS      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      | UG/L             |     |      |
|                                                                                              | PCT_SOLIDS | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      | 0.0              |     |      |
|                                                                                              | DUP_OF     |                  |     |      |                  |     |      |                  |     |      |                  |     |      |
| PARAMETER                                                                                    |            | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD | RESULT           | VQL | QLCD |
| HEXAVALENT CHROMIUM                                                                          |            | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      | 0.047            | U   |      |



## **Appendix B**

Results as Reported by the Laboratory

### ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107001** Date Collected: 7/9/2018 13:00 Matrix: Water  
Sample ID: **MSA-SW37A-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

**WET CHEMISTRY**

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 01:53 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107002** Date Collected: 7/9/2018 13:05 Matrix: Water  
Sample ID: **MSA-SW37B-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 02:23 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107003** Date Collected: 7/9/2018 13:09 Matrix: Water  
Sample ID: **MSA-SW37C-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 02:32 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|

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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107004**

Date Collected: 7/9/2018 13:15

Matrix: Water

Sample ID: **MSA-SW37D-070918**

Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 02:41 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|

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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107005** Date Collected: 7/9/2018 11:47 Matrix: Water  
Sample ID: **MSA-SW38A-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 02:50 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107006** Date Collected: 7/9/2018 11:51 Matrix: Water  
Sample ID: **MSA-SW38B-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 02:59 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107007** Date Collected: 7/9/2018 11:56 Matrix: Water  
Sample ID: **MSA-SW38C-070918** Date Received: 7/9/2018 20:40

| Parameters           | Results | Flag | Units | RDL  | MDL   | Method    | Prepared By | Analyzed      | By  | Cntr |
|----------------------|---------|------|-------|------|-------|-----------|-------------|---------------|-----|------|
| <b>WET CHEMISTRY</b> |         |      |       |      |       |           |             |               |     |      |
| Hexavalent Chromium  | ND      |      | ug/L  | 0.25 | 0.047 | EPA 218.6 |             | 7/10/18 03:08 | MBW | A    |

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**ANALYTICAL RESULTS**

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107008**

Date Collected: 7/9/2018 12:03

Matrix: Water

Sample ID: **MSA-SW38D-070918**

Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

**WET CHEMISTRY**

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 03:17 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|

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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107009** Date Collected: 7/9/2018 09:38 Matrix: Water  
Sample ID: **MSA-SW39A-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

**WET CHEMISTRY**

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 03:26 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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**ANALYTICAL RESULTS**

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107010**  
Sample ID: **MSA-SW39B-070918**Date Collected: 7/9/2018 09:44 Matrix: Water  
Date Received: 7/9/2018 20:40

| Parameters           | Results | Flag | Units | RDL  | MDL   | Method    | Prepared By | Analyzed      | By  | Cntr |
|----------------------|---------|------|-------|------|-------|-----------|-------------|---------------|-----|------|
| <b>WET CHEMISTRY</b> |         |      |       |      |       |           |             |               |     |      |
| Hexavalent Chromium  | ND      |      | ug/L  | 0.25 | 0.047 | EPA 218.6 |             | 7/10/18 03:36 | MBW | A    |

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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107011**

Date Collected: 7/9/2018 09:50

Matrix: Water

Sample ID: **MSA-SW39C-070918**

Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 04:03 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|

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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107012** Date Collected: 7/9/2018 09:56 Matrix: Water  
Sample ID: **MSA-SW39D-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 04:33 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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### ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107013** Date Collected: 7/9/2018 12:15 Matrix: Water  
Sample ID: **MSA-SW40A-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

**WET CHEMISTRY**

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 04:43 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107014**  
Sample ID: **MSA-SW40B-070918**

Date Collected: 7/9/2018 12:18 Matrix: Water  
Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 04:52 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|

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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107015** Date Collected: 7/9/2018 12:23 Matrix: Water  
Sample ID: **MSA-SW40C-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

**WET CHEMISTRY**

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 05:01 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107016** Date Collected: 7/9/2018 12:28 Matrix: Water  
Sample ID: **MSA-SW40D-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 05:10 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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### ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107017** Date Collected: 7/9/2018 11:21 Matrix: Water  
Sample ID: **MSA-SW41A-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

**WET CHEMISTRY**

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 05:19 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107018** Date Collected: 7/9/2018 11:27 Matrix: Water  
Sample ID: **MSA-SW41B-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

**WET CHEMISTRY**

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 05:28 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107019** Date Collected: 7/9/2018 11:32 Matrix: Water  
Sample ID: **MSA-SW41C-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 05:37 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107020** Date Collected: 7/9/2018 11:38 Matrix: Water  
Sample ID: **MSA-SW41D-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

**WET CHEMISTRY**

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 05:46 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107021** Date Collected: 7/9/2018 12:38 Matrix: Water  
Sample ID: **MSA-SW42A-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 06:32 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107022** Date Collected: 7/9/2018 12:44 Matrix: Water  
Sample ID: **MSA-SW42B-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 06:59 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107023** Date Collected: 7/9/2018 12:48 Matrix: Water  
Sample ID: **MSA-SW42C-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 07:08 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107024**

Date Collected: 7/9/2018 12:53

Matrix: Water

Sample ID: **MSA-SW42D-070918**

Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 07:17 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|

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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107025** Date Collected: 7/9/2018 10:50 Matrix: Water  
Sample ID: **MSA-SW43A-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 07:26 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107026** Date Collected: 7/9/2018 10:58 Matrix: Water  
Sample ID: **MSA-SW43B-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

**WET CHEMISTRY**

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 07:35 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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**ANALYTICAL RESULTS**

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107027**

Date Collected: 7/9/2018 11:05

Matrix: Water

Sample ID: **MSA-SW43C-070918**

Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

**WET CHEMISTRY**

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 07:45 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|

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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107028** Date Collected: 7/9/2018 11:11 Matrix: Water  
Sample ID: **MSA-SW43D-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 07:54 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|

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### ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107029** Date Collected: 7/9/2018 10:27 Matrix: Water  
Sample ID: **MSA-SW44A-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

**WET CHEMISTRY**

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 08:03 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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**ANALYTICAL RESULTS**

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107030**

Date Collected: 7/9/2018 10:32

Matrix: Water

Sample ID: **MSA-SW44B-070918**

Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

**WET CHEMISTRY**

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 08:12 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|

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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107031** Date Collected: 7/9/2018 10:36 Matrix: Water  
Sample ID: **MSA-SW44C-070918** Date Received: 7/9/2018 20:40

| Parameters           | Results | Flag | Units | RDL  | MDL   | Method    | Prepared By | Analyzed      | By  | Cntr |
|----------------------|---------|------|-------|------|-------|-----------|-------------|---------------|-----|------|
| <b>WET CHEMISTRY</b> |         |      |       |      |       |           |             |               |     |      |
| Hexavalent Chromium  | ND      |      | ug/L  | 0.25 | 0.047 | EPA 218.6 |             | 7/10/18 08:39 | MBW | A    |

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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107032** Date Collected: 7/9/2018 10:42 Matrix: Water  
Sample ID: **MSA-SW44D-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 09:07 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|

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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107033**

Date Collected: 7/9/2018 10:03

Matrix: Water

Sample ID: **MSA-SW45A-070918**

Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 09:16 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|

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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107034**

Date Collected: 7/9/2018 10:08

Matrix: Water

Sample ID: **MSA-SW45B-070918**

Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 09:25 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|

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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107035** Date Collected: 7/9/2018 10:14 Matrix: Water  
Sample ID: **MSA-SW45C-070918** Date Received: 7/9/2018 20:40

| Parameters           | Results | Flag | Units | RDL  | MDL   | Method    | Prepared By | Analyzed      | By  | Cntr |
|----------------------|---------|------|-------|------|-------|-----------|-------------|---------------|-----|------|
| <b>WET CHEMISTRY</b> |         |      |       |      |       |           |             |               |     |      |
| Hexavalent Chromium  | ND      |      | ug/L  | 0.25 | 0.047 | EPA 218.6 |             | 7/10/18 09:34 | MBW | A    |

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## ANALYTICAL RESULTS

Workorder: 2325107 TLG026|112IC08242

Lab ID: **2325107036** Date Collected: 7/9/2018 10:18 Matrix: Water  
Sample ID: **MSA-SW45D-070918** Date Received: 7/9/2018 20:40

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|
|------------|---------|------|-------|-----|-----|--------|-------------|----------|----|------|

### WET CHEMISTRY

|                     |    |  |      |      |       |           |  |               |     |   |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|
| Hexavalent Chromium | ND |  | ug/L | 0.25 | 0.047 | EPA 218.6 |  | 7/10/18 09:43 | MBW | A |
|---------------------|----|--|------|------|-------|-----------|--|---------------|-----|---|



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## **Appendix C**

Support Documentation

Middletown

34 Dogwood Lane  
Middletown, PA

## Chain of Custody Record



|                                                                                                                                                                                             |             |                                                                                                                                          |             |                                                          |            |                                                                                                                                                 |  |                        |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Client Contact                                                                                                                                                                              |             | Project Manager: Tony Apanavage                                                                                                          |             | Site Contact: Tony Apanavage                             |            | Date: 7/9/2018                                                                                                                                  |  | COC No:                |  |
| Tetra Tech                                                                                                                                                                                  |             | Tel/Fax: 301-233-8230 (cell)                                                                                                             |             | Lab Contact: Vanessa Badman                              |            | Carrier: Fedex                                                                                                                                  |  | 1 of 3 COCs            |  |
| 20251 Century Blvd, Suite 200                                                                                                                                                               |             | Analysis Turnaround Time                                                                                                                 |             | Filtered Sample<br>Dissolved Hexavalent Chromium (218.6) |            |                                                                                                                                                 |  | Job No.                |  |
| Germantown, MD 20874                                                                                                                                                                        |             | Calendar (C) or Work Days (W)                                                                                                            |             |                                                          |            |                                                                                                                                                 |  | SDG No.                |  |
| (301) 528-3021 Phone                                                                                                                                                                        |             | TAT if different from Below: <u>24 HR HOLD TIME</u>                                                                                      |             |                                                          |            |                                                                                                                                                 |  | Sampler: Mullis        |  |
| (301) 528-3000 FAX                                                                                                                                                                          |             | <input type="checkbox"/> 2 weeks<br><input type="checkbox"/> 1 week<br><input type="checkbox"/> 2 days<br><input type="checkbox"/> 1 day |             |                                                          |            |                                                                                                                                                 |  | Sample Specific Notes: |  |
| Project Name: MSA Surface Water Sampling                                                                                                                                                    |             |                                                                                                                                          |             |                                                          |            |                                                                                                                                                 |  |                        |  |
| Site: MSA Frog Mortar Creek                                                                                                                                                                 |             |                                                                                                                                          |             |                                                          |            |                                                                                                                                                 |  |                        |  |
| Project # 112IC08424                                                                                                                                                                        |             |                                                                                                                                          |             |                                                          |            |                                                                                                                                                 |  |                        |  |
| Sample Identification                                                                                                                                                                       | Sample Date | Sample Time                                                                                                                              | Sample Type | Matrix                                                   | # of Cont. |                                                                                                                                                 |  |                        |  |
| MSA-SW37A-070918                                                                                                                                                                            | 7/9/2018    | 1300                                                                                                                                     | SW          | Water                                                    | 1          | x                                                                                                                                               |  |                        |  |
| MSA-SW37B-070918                                                                                                                                                                            | 7/9/2018    | 1305                                                                                                                                     | SW          | Water                                                    | 1          | x                                                                                                                                               |  |                        |  |
| MSA-SW37C-070918                                                                                                                                                                            | 7/9/2018    | 1309                                                                                                                                     | SW          | Water                                                    | 1          | x                                                                                                                                               |  |                        |  |
| MSA-SW37D-070918                                                                                                                                                                            | 7/9/2018    | 1315                                                                                                                                     | SW          | Water                                                    | 1          | x                                                                                                                                               |  |                        |  |
| MSA-SW38A-070918                                                                                                                                                                            | 7/9/2018    | 1147                                                                                                                                     | SW          | Water                                                    | 1          | x                                                                                                                                               |  |                        |  |
| MSA-SW38B-070918                                                                                                                                                                            | 7/9/2018    | 1151                                                                                                                                     | SW          | Water                                                    | 1          | x                                                                                                                                               |  |                        |  |
| MSA-SW38C-070918                                                                                                                                                                            | 7/9/2018    | 1156                                                                                                                                     | SW          | Water                                                    | 1          | x                                                                                                                                               |  |                        |  |
| MSA-SW38D-070918                                                                                                                                                                            | 7/9/2018    | 1203                                                                                                                                     | SW          | Water                                                    | 1          | x                                                                                                                                               |  |                        |  |
| MSA-SW39A-070918                                                                                                                                                                            | 7/9/2018    | 0938                                                                                                                                     | SW          | Water                                                    | 1          | x                                                                                                                                               |  |                        |  |
| MSA-SW39B-070918                                                                                                                                                                            | 7/9/2018    | 0944                                                                                                                                     | SW          | Water                                                    | 1          | x                                                                                                                                               |  |                        |  |
| MSA-SW39C-070918                                                                                                                                                                            | 7/9/2018    | 0950                                                                                                                                     | SW          | Water                                                    | 1          | x                                                                                                                                               |  |                        |  |
| MSA-SW39D-070918                                                                                                                                                                            | 7/9/2018    | 0956                                                                                                                                     | SW          | Water                                                    | 1          | x                                                                                                                                               |  |                        |  |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other <u>Hex chrome buffer</u>                                                                                            |             |                                                                                                                                          |             |                                                          |            | 6                                                                                                                                               |  |                        |  |
| Possible Hazard Identification                                                                                                                                                              |             |                                                                                                                                          |             |                                                          |            | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)                                                             |  |                        |  |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown |             |                                                                                                                                          |             |                                                          |            | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |  |                        |  |
| Special Instructions/QC Requirements & Comments: <b>Samples must be analyzed within 24 hours of sample time. Filtered in Field</b>                                                          |             |                                                                                                                                          |             |                                                          |            |                                                                                                                                                 |  |                        |  |
| Relinquished by:                                                                                                                                                                            |             | Company:                                                                                                                                 |             | Date/Time:                                               |            | Received by:                                                                                                                                    |  | Date/Time:             |  |
|                                                                                                                                                                                             |             | Tetra Tech Inc                                                                                                                           |             | 7/9/18 1500                                              |            |                                                                                                                                                 |  | 7/12 1500              |  |
| Relinquished by:                                                                                                                                                                            |             | Company:                                                                                                                                 |             | Date/Time:                                               |            | Received by:                                                                                                                                    |  | Date/Time:             |  |
|                                                                                                                                                                                             |             | ALS                                                                                                                                      |             | 7/9 1700                                                 |            | COMMON COURIER / ALS COURIER                                                                                                                    |  |                        |  |
| Relinquished by:                                                                                                                                                                            |             | Company:                                                                                                                                 |             | Date/Time:                                               |            | Received by:                                                                                                                                    |  | Date/Time:             |  |
| COMMON COURIER / ALS COURIER                                                                                                                                                                |             |                                                                                                                                          |             |                                                          |            |                                                                                                                                                 |  | 7/9/2018 2040          |  |

Y N Initials Cooler Temp: 2 °C  
 Cooler #: \_\_\_\_\_  
 Therm ID: 402  
 Ship Carrier: \_\_\_\_\_  
 FedEx: UPS  
 DHL: \_\_\_\_\_  
 Tracking #: MD0709003



Middletown

34 Dogwood Lane  
Middletown, PA

## Chain of Custody Record



|                                                                                                                                                                                             |  |                                                                                                                                          |             |                                                        |        |                              |                                                                                                                                                 |                              |  |               |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------|--------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--|---------------|--|
| Client Contact                                                                                                                                                                              |  | Project Manager: Tony Apanavage                                                                                                          |             | Site Contact: Tony Apanavage                           |        | Date: 7/9/2018               |                                                                                                                                                 | COC No:                      |  |               |  |
| Tetra Tech                                                                                                                                                                                  |  | Tel/Fax: 301-233-8230 (cell)                                                                                                             |             | Lab Contact: Vanessa Badman                            |        | Carrier: FedEx               |                                                                                                                                                 | 2 of 3 COCs                  |  |               |  |
| 20251 Century Blvd, Suite 200                                                                                                                                                               |  | Analysis Turnaround Time                                                                                                                 |             | Filtered Sample<br>Dissolved Hexavalent Chromium (218) |        |                              |                                                                                                                                                 | Job No.                      |  |               |  |
| Germantown, MD 20874                                                                                                                                                                        |  | Calendar (C) or Work Days (W)                                                                                                            |             |                                                        |        |                              |                                                                                                                                                 | SDG No.                      |  |               |  |
| (301) 528-3021 Phone                                                                                                                                                                        |  | TAT if different from Below: 24 HR HOLD TIME                                                                                             |             |                                                        |        |                              |                                                                                                                                                 | Sampler: Mullis              |  |               |  |
| (301) 528-3000 FAX                                                                                                                                                                          |  | <input type="checkbox"/> 2 weeks<br><input type="checkbox"/> 1 week<br><input type="checkbox"/> 2 days<br><input type="checkbox"/> 1 day |             |                                                        |        |                              |                                                                                                                                                 | Sample Specific Notes:       |  |               |  |
| Project Name: MSA Surface Water Sampling                                                                                                                                                    |  |                                                                                                                                          |             |                                                        |        |                              |                                                                                                                                                 |                              |  |               |  |
| Site: MSA Frog Mortar Creek                                                                                                                                                                 |  |                                                                                                                                          |             |                                                        |        |                              |                                                                                                                                                 |                              |  |               |  |
| Project # 112IC08424                                                                                                                                                                        |  |                                                                                                                                          |             |                                                        |        |                              |                                                                                                                                                 |                              |  |               |  |
| Sample Identification                                                                                                                                                                       |  | Sample Date                                                                                                                              | Sample Time | Sample Type                                            | Matrix | # of Cont.                   |                                                                                                                                                 |                              |  |               |  |
| MSA-SW40A-070918                                                                                                                                                                            |  | 7/9/2018                                                                                                                                 | 1215        | SW                                                     | Water  | 1                            | x                                                                                                                                               |                              |  |               |  |
| MSA-SW40B-070918                                                                                                                                                                            |  | 7/9/2018                                                                                                                                 | 1218        | SW                                                     | Water  | 1                            | x                                                                                                                                               |                              |  |               |  |
| MSA-SW40C-070918                                                                                                                                                                            |  | 7/9/2018                                                                                                                                 | 1223        | SW                                                     | Water  | 1                            | x                                                                                                                                               |                              |  |               |  |
| MSA-SW40D-070918                                                                                                                                                                            |  | 7/9/2018                                                                                                                                 | 1228        | SW                                                     | Water  | 1                            | x                                                                                                                                               |                              |  |               |  |
| MSA-SW41A-070918                                                                                                                                                                            |  | 7/9/2018                                                                                                                                 | 1121        | SW                                                     | Water  | 1                            | x                                                                                                                                               |                              |  |               |  |
| MSA-SW41B-070918                                                                                                                                                                            |  | 7/9/2018                                                                                                                                 | 1127        | SW                                                     | Water  | 1                            | x                                                                                                                                               |                              |  |               |  |
| MSA-SW41C-070918                                                                                                                                                                            |  | 7/9/2018                                                                                                                                 | 1132        | SW                                                     | Water  | 1                            | x                                                                                                                                               |                              |  |               |  |
| MSA-SW41D-070918                                                                                                                                                                            |  | 7/9/2018                                                                                                                                 | 1138        | SW                                                     | Water  | 1                            | x                                                                                                                                               |                              |  |               |  |
| MSA-SW42A-070918                                                                                                                                                                            |  | 7/9/2018                                                                                                                                 | 1238        | SW                                                     | Water  | 1                            | x                                                                                                                                               |                              |  |               |  |
| MSA-SW42B-070918                                                                                                                                                                            |  | 7/9/2018                                                                                                                                 | 1244        | SW                                                     | Water  | 1                            | x                                                                                                                                               |                              |  |               |  |
| MSA-SW42C-070918                                                                                                                                                                            |  | 7/9/2018                                                                                                                                 | 1248        | SW                                                     | Water  | 1                            | x                                                                                                                                               |                              |  |               |  |
| MSA-SW42D-070918                                                                                                                                                                            |  | 7/9/2018                                                                                                                                 | 1253        | SW                                                     | Water  | 1                            | x                                                                                                                                               |                              |  |               |  |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other Hex Chrom Buffer                                                                                                    |  |                                                                                                                                          |             |                                                        |        |                              | 6                                                                                                                                               |                              |  |               |  |
| Possible Hazard Identification                                                                                                                                                              |  |                                                                                                                                          |             |                                                        |        |                              | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)                                                             |                              |  |               |  |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown |  |                                                                                                                                          |             |                                                        |        |                              | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                              |  |               |  |
| Special Instructions/QC Requirements & Comments: Samples must be analyzed within 24 hours of sample time. Filtered in Field                                                                 |  |                                                                                                                                          |             |                                                        |        |                              |                                                                                                                                                 |                              |  |               |  |
| Relinquished by:                                                                                                                                                                            |  | Company:                                                                                                                                 |             | Date/Time:                                             |        | Received by:                 |                                                                                                                                                 | Company:                     |  | Date/Time:    |  |
| [Signature]                                                                                                                                                                                 |  | Tetra Tech Inc                                                                                                                           |             | 7/9/18 1500                                            |        | [Signature]                  |                                                                                                                                                 | ALS                          |  | 7/9/18 1500   |  |
| Relinquished by:                                                                                                                                                                            |  | Company:                                                                                                                                 |             | Date/Time:                                             |        | Received by:                 |                                                                                                                                                 | Company:                     |  | Date/Time:    |  |
| [Signature]                                                                                                                                                                                 |  | ALS                                                                                                                                      |             | 7/9/18 1700                                            |        | COMMON COURIER / ALS COURIER |                                                                                                                                                 | COMMON COURIER / ALS COURIER |  | 7/9/2018 2040 |  |
| Relinquished by:                                                                                                                                                                            |  | Company:                                                                                                                                 |             | Date/Time:                                             |        | Received by:                 |                                                                                                                                                 | Company:                     |  | Date/Time:    |  |
| COMMON COURIER / ALS COURIER                                                                                                                                                                |  |                                                                                                                                          |             |                                                        |        | [Signature]                  |                                                                                                                                                 | ALS                          |  | 7/9/2018 2040 |  |

Custody Seals Present? ☒ Y ☐ N Initials **KM** Cooler Temp: **2** °C  
 (if present) Seals Intact? ☒ Y ☐ N Cooler #: \_\_\_\_\_  
 Received on Ice? ☒ Y ☐ N Therm ID: **402**  
 COC/Lbls Complete ☒ Y ☐ N Ship Carrier \_\_\_\_\_  
 Cont in Good Cond? ☒ Y ☐ N FedEx UPS \_\_\_\_\_  
 Correct Containers? ☒ Y ☐ N DHL \_\_\_\_\_  
 Correct Samp Vol? ☒ Y ☐ N  
 Correct Preservation? ☒ Y ☐ N  
 Headspace/Volatiles? ☒ Y ☐ N  
 Tracking #: **MD180709003**



2325107

Middletown

34 Dogwood Lane  
Middletown, PA

## Chain of Custody Record



|                                                                                                                                                                                                                      |             |                                                                                                                                          |             |                                                        |            |                                                                                                                                                 |  |                                              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------|--|
| Client Contact                                                                                                                                                                                                       |             | Project Manager: Tony Apanavage                                                                                                          |             | Site Contact: Tony Apanavage                           |            | Date: 7/9/2018                                                                                                                                  |  | COC No:                                      |  |
| Tetra Tech                                                                                                                                                                                                           |             | Tel/Fax: 301-233-8230 (cell)                                                                                                             |             | Lab Contact: Vanessa Badman                            |            | Carrier: Fedex                                                                                                                                  |  | 3 of 3 COCs                                  |  |
| 20251 Century Blvd, Suite 200                                                                                                                                                                                        |             | Analysis Turnaround Time                                                                                                                 |             | Filtered Sample<br>Dissolved Hexavalent Chromium (218) |            | Job No.<br><br>SDG No.<br><br>Sampler: Mullis<br><br>Sample Specific Notes:                                                                     |  |                                              |  |
| Germantown, MD 20874                                                                                                                                                                                                 |             | Calendar (C) or Work Days (W)                                                                                                            |             |                                                        |            |                                                                                                                                                 |  |                                              |  |
| (301) 528-3021 Phone                                                                                                                                                                                                 |             | TAT if different from Below: <b>14 HR HOLD TIME</b>                                                                                      |             |                                                        |            |                                                                                                                                                 |  |                                              |  |
| (301) 528-3000 FAX                                                                                                                                                                                                   |             | <input type="checkbox"/> 2 weeks<br><input type="checkbox"/> 1 week<br><input type="checkbox"/> 2 days<br><input type="checkbox"/> 1 day |             |                                                        |            |                                                                                                                                                 |  |                                              |  |
| Project Name: MSA Surface Water Sampling                                                                                                                                                                             |             |                                                                                                                                          |             |                                                        |            |                                                                                                                                                 |  |                                              |  |
| Site: MSA Frog Mortar Creek                                                                                                                                                                                          |             |                                                                                                                                          |             |                                                        |            |                                                                                                                                                 |  |                                              |  |
| Project # 112IC08424                                                                                                                                                                                                 |             |                                                                                                                                          |             |                                                        |            |                                                                                                                                                 |  |                                              |  |
| Sample Identification                                                                                                                                                                                                | Sample Date | Sample Time                                                                                                                              | Sample Type | Matrix                                                 | # of Cont. |                                                                                                                                                 |  |                                              |  |
| MSA-SW43A-070918                                                                                                                                                                                                     | 7/9/2018    | 1050                                                                                                                                     | SW          | Water                                                  | 1          |                                                                                                                                                 |  |                                              |  |
| MSA-SW43B-070918                                                                                                                                                                                                     | 7/9/2018    | 1058                                                                                                                                     | SW          | Water                                                  | 1          |                                                                                                                                                 |  |                                              |  |
| MSA-SW43C-070918                                                                                                                                                                                                     | 7/9/2018    | 1105                                                                                                                                     | SW          | Water                                                  | 1          |                                                                                                                                                 |  |                                              |  |
| MSA-SW43D-070918                                                                                                                                                                                                     | 7/9/2018    | 1111                                                                                                                                     | SW          | Water                                                  | 1          |                                                                                                                                                 |  |                                              |  |
| MSA-SW44A-070918                                                                                                                                                                                                     | 7/9/2018    | 1027                                                                                                                                     | SW          | Water                                                  | 1          |                                                                                                                                                 |  |                                              |  |
| MSA-SW44B-070918                                                                                                                                                                                                     | 7/9/2018    | 1032                                                                                                                                     | SW          | Water                                                  | 1          |                                                                                                                                                 |  |                                              |  |
| MSA-SW44C-070918                                                                                                                                                                                                     | 7/9/2018    | 1036                                                                                                                                     | SW          | Water                                                  | 1          |                                                                                                                                                 |  |                                              |  |
| MSA-SW44D-070918                                                                                                                                                                                                     | 7/9/2018    | 1042                                                                                                                                     | SW          | Water                                                  | 1          |                                                                                                                                                 |  |                                              |  |
| MSA-SW45A-070918                                                                                                                                                                                                     | 7/9/2018    | 1003                                                                                                                                     | SW          | Water                                                  | 1          |                                                                                                                                                 |  |                                              |  |
| MSA-SW45B-070918                                                                                                                                                                                                     | 7/9/2018    | 1008                                                                                                                                     | SW          | Water                                                  | 1          |                                                                                                                                                 |  |                                              |  |
| MSA-SW45C-070918                                                                                                                                                                                                     | 7/9/2018    | 1014                                                                                                                                     | SW          | Water                                                  | 1          |                                                                                                                                                 |  |                                              |  |
| MSA-SW45D-070918                                                                                                                                                                                                     | 7/9/2018    | 1018                                                                                                                                     | SW          | Water                                                  | 1          |                                                                                                                                                 |  |                                              |  |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other Hex Chrom buffer                                                                                                                             |             |                                                                                                                                          |             |                                                        |            | 6                                                                                                                                               |  |                                              |  |
| Possible Hazard Identification                                                                                                                                                                                       |             |                                                                                                                                          |             |                                                        |            | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)                                                             |  |                                              |  |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> |             |                                                                                                                                          |             |                                                        |            | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |  |                                              |  |
| Special Instructions/QC Requirements & Comments: <b>Samples must be analyzed within 24 hours of sample time. Filtered in Field</b>                                                                                   |             |                                                                                                                                          |             |                                                        |            |                                                                                                                                                 |  |                                              |  |
| Relinquished by: <i>[Signature]</i>                                                                                                                                                                                  |             | Company: <i>Tetra Tech Inc</i>                                                                                                           |             | Date/Time: <i>7/9/18 1500</i>                          |            | Received by: <i>[Signature]</i>                                                                                                                 |  | Company: <i>ALS</i>                          |  |
| Relinquished by: <i>[Signature]</i>                                                                                                                                                                                  |             | Company: <i>ALS</i>                                                                                                                      |             | Date/Time: <i>7/9/18 1710</i>                          |            | Received by: <i>[Signature]</i>                                                                                                                 |  | Company: <i>COMMON COURIER / ALS COURIER</i> |  |
| Relinquished by: <b>COMMON COURIER / ALS COURIER</b>                                                                                                                                                                 |             | Company: <i>ALS</i>                                                                                                                      |             | Date/Time: <i>7/9/2018 2040</i>                        |            | Received by: <i>[Signature]</i>                                                                                                                 |  | Company: <i>ALS</i>                          |  |

Y N Initials Cooler Temp  
 RM 2  
 Cooler #:  
 Therm ID: 402  
 Ship Carrier  
 FedEx UPS  
 DHL  
 Tracking # **MD180764003**

**Tetra Tech, Inc.**

**ALS-Middletown  
Case Narrative  
TLG-026**

**Sample Management**

This report contains the results of the analysis of thirty-six (36) water samples collected on July 9, 2018. Analytical results and quality control information are summarized in this data package.

**Sample Receipt**

The samples arrived at ALS via courier on July 9, 2018. Upon receipt, the samples were inspected and compared to the Chain of Custody. Sample temperature was documented on the enclosed Chain of Custody. Samples were received intact and properly preserved, unless noted on the enclosed Certificate of Analysis and/or Chain of Custody.

**Hexavalent Chromium by EPA Method 218.6**

***Sample handling.*** Thirty-six (36) aqueous samples were analyzed for hexavalent chromium by EPA Method 218.6. The samples were pH adjusted using ammonium sulfate buffer to a range of 9.3-9.7 and analyzed within the 28-day hold time.

***Calibration.*** A monthly calibration was properly established on instrument IC#4 on 7/10/2018. Continuing calibration verification standards were analyzed to verify the calibration. The standards were within the QC limits.

***Blanks.*** Method blanks were analyzed with the samples. Hexavalent chromium was not detected above the reporting limit of 0.25 µg/L in the blanks.

***Laboratory Control Samples.*** Laboratory control samples identified as 2771924, 2771926, 2771934, and 2771936 were analyzed with the samples. All recoveries were within QC criteria.

***Spikes.*** Matrix spike and matrix spike duplicate analyses were performed on sample 2325107001 (MSA-SW37A-070918). All recoveries were within the method acceptance criteria.

Matrix spike and matrix spike duplicate analyses were performed on sample 2325107011 (MSA-SW39C-070918). All recoveries were within the method acceptance criteria.

Matrix spike and matrix spike duplicate analyses were performed on sample 2325107021 (MSA-SW42A-070918). All recoveries were within the method acceptance criteria.

Matrix spike and matrix spike duplicate analyses were performed on sample 2325107031 (MSA-SW44C-070918). All recoveries were within the method acceptance criteria.

## SAMPLE SUMMARY

Workorder: 2325107 TLG026|112IC08242

| Lab ID     | Sample ID        | Matrix | Date Collected | Date Received  | Collected By        |
|------------|------------------|--------|----------------|----------------|---------------------|
| 2325107001 | MSA-SW37A-070918 | Water  | 7/9/2018 13:00 | 7/9/2018 20:40 | Collected by Client |
| 2325107002 | MSA-SW37B-070918 | Water  | 7/9/2018 13:05 | 7/9/2018 20:40 | Collected by Client |
| 2325107003 | MSA-SW37C-070918 | Water  | 7/9/2018 13:09 | 7/9/2018 20:40 | Collected by Client |
| 2325107004 | MSA-SW37D-070918 | Water  | 7/9/2018 13:15 | 7/9/2018 20:40 | Collected by Client |
| 2325107005 | MSA-SW38A-070918 | Water  | 7/9/2018 11:47 | 7/9/2018 20:40 | Collected by Client |
| 2325107006 | MSA-SW38B-070918 | Water  | 7/9/2018 11:51 | 7/9/2018 20:40 | Collected by Client |
| 2325107007 | MSA-SW38C-070918 | Water  | 7/9/2018 11:56 | 7/9/2018 20:40 | Collected by Client |
| 2325107008 | MSA-SW38D-070918 | Water  | 7/9/2018 12:03 | 7/9/2018 20:40 | Collected by Client |
| 2325107009 | MSA-SW39A-070918 | Water  | 7/9/2018 09:38 | 7/9/2018 20:40 | Collected by Client |
| 2325107010 | MSA-SW39B-070918 | Water  | 7/9/2018 09:44 | 7/9/2018 20:40 | Collected by Client |
| 2325107011 | MSA-SW39C-070918 | Water  | 7/9/2018 09:50 | 7/9/2018 20:40 | Collected by Client |
| 2325107012 | MSA-SW39D-070918 | Water  | 7/9/2018 09:56 | 7/9/2018 20:40 | Collected by Client |
| 2325107013 | MSA-SW40A-070918 | Water  | 7/9/2018 12:15 | 7/9/2018 20:40 | Collected by Client |
| 2325107014 | MSA-SW40B-070918 | Water  | 7/9/2018 12:18 | 7/9/2018 20:40 | Collected by Client |
| 2325107015 | MSA-SW40C-070918 | Water  | 7/9/2018 12:23 | 7/9/2018 20:40 | Collected by Client |
| 2325107016 | MSA-SW40D-070918 | Water  | 7/9/2018 12:28 | 7/9/2018 20:40 | Collected by Client |
| 2325107017 | MSA-SW41A-070918 | Water  | 7/9/2018 11:21 | 7/9/2018 20:40 | Collected by Client |
| 2325107018 | MSA-SW41B-070918 | Water  | 7/9/2018 11:27 | 7/9/2018 20:40 | Collected by Client |
| 2325107019 | MSA-SW41C-070918 | Water  | 7/9/2018 11:32 | 7/9/2018 20:40 | Collected by Client |
| 2325107020 | MSA-SW41D-070918 | Water  | 7/9/2018 11:38 | 7/9/2018 20:40 | Collected by Client |
| 2325107021 | MSA-SW42A-070918 | Water  | 7/9/2018 12:38 | 7/9/2018 20:40 | Collected by Client |
| 2325107022 | MSA-SW42B-070918 | Water  | 7/9/2018 12:44 | 7/9/2018 20:40 | Collected by Client |
| 2325107023 | MSA-SW42C-070918 | Water  | 7/9/2018 12:48 | 7/9/2018 20:40 | Collected by Client |
| 2325107024 | MSA-SW42D-070918 | Water  | 7/9/2018 12:53 | 7/9/2018 20:40 | Collected by Client |
| 2325107025 | MSA-SW43A-070918 | Water  | 7/9/2018 10:50 | 7/9/2018 20:40 | Collected by Client |
| 2325107026 | MSA-SW43B-070918 | Water  | 7/9/2018 10:58 | 7/9/2018 20:40 | Collected by Client |
| 2325107027 | MSA-SW43C-070918 | Water  | 7/9/2018 11:05 | 7/9/2018 20:40 | Collected by Client |
| 2325107028 | MSA-SW43D-070918 | Water  | 7/9/2018 11:11 | 7/9/2018 20:40 | Collected by Client |
| 2325107029 | MSA-SW44A-070918 | Water  | 7/9/2018 10:27 | 7/9/2018 20:40 | Collected by Client |
| 2325107030 | MSA-SW44B-070918 | Water  | 7/9/2018 10:32 | 7/9/2018 20:40 | Collected by Client |
| 2325107031 | MSA-SW44C-070918 | Water  | 7/9/2018 10:36 | 7/9/2018 20:40 | Collected by Client |
| 2325107032 | MSA-SW44D-070918 | Water  | 7/9/2018 10:42 | 7/9/2018 20:40 | Collected by Client |
| 2325107033 | MSA-SW45A-070918 | Water  | 7/9/2018 10:03 | 7/9/2018 20:40 | Collected by Client |
| 2325107034 | MSA-SW45B-070918 | Water  | 7/9/2018 10:08 | 7/9/2018 20:40 | Collected by Client |

### ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay  
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

### SAMPLE SUMMARY

Workorder: 2325107 TLG026|112IC08242

| Lab ID     | Sample ID        | Matrix | Date Collected | Date Received  | Collected By        |
|------------|------------------|--------|----------------|----------------|---------------------|
| 2325107035 | MSA-SW45C-070918 | Water  | 7/9/2018 10:14 | 7/9/2018 20:40 | Collected by Client |
| 2325107036 | MSA-SW45D-070918 | Water  | 7/9/2018 10:18 | 7/9/2018 20:40 | Collected by Client |

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### ALS Environmental Laboratory Locations Across North America

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## SAMPLE SUMMARY

Workorder: 2325107 TLG026|112IC08242

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

### Standard Acronyms/Flags

|        |                                                                                                                                      |
|--------|--------------------------------------------------------------------------------------------------------------------------------------|
| J      | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte     |
| U      | Indicates that the analyte was Not Detected (ND)                                                                                     |
| N      | Indicates presumptive evidence of the presence of a compound                                                                         |
| MDL    | Method Detection Limit                                                                                                               |
| PQL    | Practical Quantitation Limit                                                                                                         |
| RDL    | Reporting Detection Limit                                                                                                            |
| ND     | Not Detected - indicates that the analyte was Not Detected at the RDL                                                                |
| Cntr   | Analysis was performed using this container                                                                                          |
| RegLmt | Regulatory Limit                                                                                                                     |
| LCS    | Laboratory Control Sample                                                                                                            |
| MS     | Matrix Spike                                                                                                                         |
| MSD    | Matrix Spike Duplicate                                                                                                               |
| DUP    | Sample Duplicate                                                                                                                     |
| %Rec   | Percent Recovery                                                                                                                     |
| RPD    | Relative Percent Difference                                                                                                          |
| LOD    | DoD Limit of Detection                                                                                                               |
| LOQ    | DoD Limit of Quantitation                                                                                                            |
| DL     | DoD Detection Limit                                                                                                                  |
| I      | Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL) |
| (S)    | Surrogate Compound                                                                                                                   |
| NC     | Not Calculated                                                                                                                       |
| *      | Result outside of QC limits                                                                                                          |

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Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



### ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 2325107 TLG026|112IC08242

| Lab ID     | Sample ID        | Analysis Method | Prep Method |
|------------|------------------|-----------------|-------------|
| 2325107001 | MSA-SW37A-070918 | EPA 218.6       |             |
| 2325107002 | MSA-SW37B-070918 | EPA 218.6       |             |
| 2325107003 | MSA-SW37C-070918 | EPA 218.6       |             |
| 2325107004 | MSA-SW37D-070918 | EPA 218.6       |             |
| 2325107005 | MSA-SW38A-070918 | EPA 218.6       |             |
| 2325107006 | MSA-SW38B-070918 | EPA 218.6       |             |
| 2325107007 | MSA-SW38C-070918 | EPA 218.6       |             |
| 2325107008 | MSA-SW38D-070918 | EPA 218.6       |             |
| 2325107009 | MSA-SW39A-070918 | EPA 218.6       |             |
| 2325107010 | MSA-SW39B-070918 | EPA 218.6       |             |
| 2325107011 | MSA-SW39C-070918 | EPA 218.6       |             |
| 2325107012 | MSA-SW39D-070918 | EPA 218.6       |             |
| 2325107013 | MSA-SW40A-070918 | EPA 218.6       |             |
| 2325107014 | MSA-SW40B-070918 | EPA 218.6       |             |
| 2325107015 | MSA-SW40C-070918 | EPA 218.6       |             |
| 2325107016 | MSA-SW40D-070918 | EPA 218.6       |             |
| 2325107017 | MSA-SW41A-070918 | EPA 218.6       |             |
| 2325107018 | MSA-SW41B-070918 | EPA 218.6       |             |
| 2325107019 | MSA-SW41C-070918 | EPA 218.6       |             |
| 2325107020 | MSA-SW41D-070918 | EPA 218.6       |             |
| 2325107021 | MSA-SW42A-070918 | EPA 218.6       |             |
| 2325107022 | MSA-SW42B-070918 | EPA 218.6       |             |
| 2325107023 | MSA-SW42C-070918 | EPA 218.6       |             |
| 2325107024 | MSA-SW42D-070918 | EPA 218.6       |             |
| 2325107025 | MSA-SW43A-070918 | EPA 218.6       |             |
| 2325107026 | MSA-SW43B-070918 | EPA 218.6       |             |
| 2325107027 | MSA-SW43C-070918 | EPA 218.6       |             |
| 2325107028 | MSA-SW43D-070918 | EPA 218.6       |             |
| 2325107029 | MSA-SW44A-070918 | EPA 218.6       |             |
| 2325107030 | MSA-SW44B-070918 | EPA 218.6       |             |
| 2325107031 | MSA-SW44C-070918 | EPA 218.6       |             |
| 2325107032 | MSA-SW44D-070918 | EPA 218.6       |             |
| 2325107033 | MSA-SW45A-070918 | EPA 218.6       |             |
| 2325107034 | MSA-SW45B-070918 | EPA 218.6       |             |
| 2325107035 | MSA-SW45C-070918 | EPA 218.6       |             |
| 2325107036 | MSA-SW45D-070918 | EPA 218.6       |             |

### ALS Environmental Laboratory Locations Across North America

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Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

## Cr+6 218.6 pH Filtration Prep

[illegible]

Date: 7.10.2018 00:10  
Tech: MBW

|        |        |
|--------|--------|
| Queue: | WETC   |
| Batch: | 207155 |

|              |     |
|--------------|-----|
| Reagent:     |     |
| Cr+6 Buffer: | N/A |

Reviewed by: CHW  
Reviewed date: 7/11/18

Comments:

An "X" in the Final pH column indicates that the sample pH is within this range.

Ammonium Hydroxide - 161014002

## Cr+6 218.6 pH Filtration Prep

[illegible]

|       |                 |
|-------|-----------------|
| Date: | 7.10.2018 00:10 |
| Tech: | MBW             |

|        |        |
|--------|--------|
| Queue: | WETC   |
| Batch: | 207155 |

|              |     |
|--------------|-----|
| Reagent:     |     |
| Cr+6 Buffer: | N/A |

Reviewed by: \_\_\_\_\_  
Reviewed date: \_\_\_\_\_

Comments:

An "X" in the Final pH column indicates that the sample pH is within this range.

Ammonium Hydroxide - 161014002



## Form 4B

### Inorganic Blank Summary

Analysis Method: EPA 218.6  
Instrument: IC-4

SDG No.: TLG026[illegible]

(1) The following qualifiers are used:

U: The analyte concentration is less than the reporting limit listed  
J: The analyte concentration is less than the reporting limit but greater than the method detection limit

Comments:



## Form 3A

## Matrix Spike and Matrix Spike Duplicate Recovery Summary

Analysis Method: EPA 218.6  
 Matrix (soil/water): Water

SDG No.: TLG026  
 Units: ug/L  
 Lab Sample ID: 2325107001  
 Lab MS Sample ID: 2771927  
 Lab MSD Sample ID: 2771928

| Analyte             | Spike Added | Sample Concentration | MS Concentration | MS Recovery (%) | (1) | Acceptable Limits (%) |
|---------------------|-------------|----------------------|------------------|-----------------|-----|-----------------------|
| Hexavalent Chromium | 5           | 0.0                  | 5.3              | 106             |     | 90 - 110              |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |

| Analyte             | Spike Added | MSD Concentration | MSD Recovery (%) | (1) | Acceptable Limits (%) | RPD (%) | (1) | Acc. Lim. (%) |
|---------------------|-------------|-------------------|------------------|-----|-----------------------|---------|-----|---------------|
| Hexavalent Chromium | 5           | 5.4               | 108              |     | 90 - 110              | 2.02    |     | 20            |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |

(1) The following qualifiers are used:

\* : Values outside of acceptable limits

D : Spikes diluted out

Comments:

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## Form 3A

## Matrix Spike and Matrix Spike Duplicate Recovery Summary

Analysis Method: EPA 218.6  
 Matrix (soil/water): Water

SDG No.: TLG026  
 Units: ug/L  
 Lab Sample ID: 2325107011  
 Lab MS Sample ID: 2771931  
 Lab MSD Sample ID: 2771932

| Analyte             | Spike Added | Sample Concentration | MS Concentration | MS Recovery (%) | (1) | Acceptable Limits (%) |
|---------------------|-------------|----------------------|------------------|-----------------|-----|-----------------------|
| Hexavalent Chromium | 5           | 0.0                  | 5.0              | 101             |     | 90 - 110              |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
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|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |

| Analyte             | Spike Added | MSD Concentration | MSD Recovery (%) | (1) | Acceptable Limits (%) | RPD (%) | (1) | Acc. Lim. (%) |
|---------------------|-------------|-------------------|------------------|-----|-----------------------|---------|-----|---------------|
| Hexavalent Chromium | 5           | 5.4               | 108              |     | 90 - 110              | 7.09    |     | 20            |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |

(1) The following qualifiers are used:

\* : Values outside of acceptable limits

D : Spikes diluted out

Comments:

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## Form 3A

## Matrix Spike and Matrix Spike Duplicate Recovery Summary

Analysis Method: EPA 218.6  
 Matrix (soil/water): Water

SDG No.: TLG026  
 Units: ug/L  
 Lab Sample ID: 2325107021  
 Lab MS Sample ID: 2771937  
 Lab MSD Sample ID: 2771938

| Analyte             | Spike Added | Sample Concentration | MS Concentration | MS Recovery (%) | (1) | Acceptable Limits (%) |
|---------------------|-------------|----------------------|------------------|-----------------|-----|-----------------------|
| Hexavalent Chromium | 5           | 0.0                  | 5.5              | 110             |     | 90 - 110              |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |

| Analyte             | Spike Added | MSD Concentration | MSD Recovery (%) | (1) | Acceptable Limits (%) | RPD (%) | (1) | Acc. Lim. (%) |
|---------------------|-------------|-------------------|------------------|-----|-----------------------|---------|-----|---------------|
| Hexavalent Chromium | 5           | 5.4               | 108              |     | 90 - 110              | 1.56    |     | 20            |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |

(1) The following qualifiers are used:

\* : Values outside of acceptable limits

D : Spikes diluted out

Comments:

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## Form 3A

## Matrix Spike and Matrix Spike Duplicate Recovery Summary

Analysis Method: EPA 218.6  
 Matrix (soil/water): Water

SDG No.: TLG026  
 Units: ug/L  
 Lab Sample ID: 2325107031  
 Lab MS Sample ID: 2771941  
 Lab MSD Sample ID: 2771942

| Analyte             | Spike Added | Sample Concentration | MS Concentration | MS Recovery (%) | (1) | Acceptable Limits (%) |
|---------------------|-------------|----------------------|------------------|-----------------|-----|-----------------------|
| Hexavalent Chromium | 5           | 0.0                  | 5.3              | 106             |     | 90 - 110              |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |
|                     |             |                      |                  |                 |     |                       |

| Analyte             | Spike Added | MSD Concentration | MSD Recovery (%) | (1) | Acceptable Limits (%) | RPD (%) | (1) | Acc. Lim. (%) |
|---------------------|-------------|-------------------|------------------|-----|-----------------------|---------|-----|---------------|
| Hexavalent Chromium | 5           | 5.4               | 108              |     | 90 - 110              | 1.42    |     | 20            |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |
|                     |             |                   |                  |     |                       |         |     |               |

(1) The following qualifiers are used:

\* : Values outside of acceptable limits

D : Spikes diluted out

Comments:

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## ANION SUMMARY REPORT

| No. | Name       | Time           | *Analyst | InjectionFac | *Batch | *Instrument | Amount<br>Cr6<br>UV_VIS_1 |
|-----|------------|----------------|----------|--------------|--------|-------------|---------------------------|
| 7   | 2771923    | 07/10/18 01:14 | MBW      | 1            | 207155 | IC-4        |                           |
| 8   | 2771924    | 07/10/18 01:23 | MBW      | 1            | 207155 | IC-4        |                           |
| 9   | 2771925    | 07/10/18 01:32 | MBW      | 1            | 207155 | IC-4        |                           |
| 10  | 2771926    | 07/10/18 01:41 | MBW      | 1            | 207155 | IC-4        |                           |
| 11  | 2325107001 | 07/10/18 01:53 | MBW      | 1            | 207155 | IC-4        |                           |
| 12  | 2771927    | 07/10/18 02:05 | MBW      | 1            | 207155 | IC-4        |                           |
| 13  | 2771928    | 07/10/18 02:14 | MBW      | 1            | 207155 | IC-4        |                           |
| 14  | 2325107002 | 07/10/18 02:23 | MBW      | 1            | 207155 | IC-4        |                           |
| 15  | 2325107003 | 07/10/18 02:32 | MBW      | 1            | 207155 | IC-4        |                           |
| 16  | 2325107004 | 07/10/18 02:41 | MBW      | 1            | 207155 | IC-4        |                           |
| 17  | 2325107005 | 07/10/18 02:50 | MBW      | 1            | 207155 | IC-4        |                           |
| 18  | 2325107006 | 07/10/18 02:59 | MBW      | 1            | 207155 | IC-4        |                           |
| 19  | 2325107007 | 07/10/18 03:08 | MBW      | 1            | 207155 | IC-4        |                           |
| 20  | 2325107008 | 07/10/18 03:17 | MBW      | 1            | 207155 | IC-4        |                           |
| 21  | 2325107009 | 07/10/18 03:26 | MBW      | 1            | 207155 | IC-4        |                           |
| 22  | 2325107010 | 07/10/18 03:36 | MBW      | 1            | 207155 | IC-4        |                           |
| 23  | 2771929    | 07/10/18 03:45 | MBW      | 1            | 207155 | IC-4        |                           |
| 24  | 2771930    | 07/10/18 03:54 | MBW      | 1            | 207155 | IC-4        |                           |
| 25  | 2325107011 | 07/10/18 04:03 | MBW      | 1            | 207155 | IC-4        |                           |
| 26  | 2771931    | 07/10/18 04:12 | MBW      | 1            | 207155 | IC-4        |                           |
| 27  | 2771932    | 07/10/18 04:21 | MBW      | 1            | 207155 | IC-4        |                           |
| 28  | 2325107012 | 07/10/18 04:33 | MBW      | 1            | 207155 | IC-4        |                           |
| 29  | 2325107013 | 07/10/18 04:43 | MBW      | 1            | 207155 | IC-4        |                           |
| 30  | 2325107014 | 07/10/18 04:52 | MBW      | 1            | 207155 | IC-4        |                           |
| 31  | 2325107015 | 07/10/18 05:01 | MBW      | 1            | 207155 | IC-4        |                           |
| 32  | 2325107016 | 07/10/18 05:10 | MBW      | 1            | 207155 | IC-4        |                           |
| 33  | 2325107017 | 07/10/18 05:19 | MBW      | 1            | 207155 | IC-4        |                           |
| 34  | 2325107018 | 07/10/18 05:28 | MBW      | 1            | 207155 | IC-4        |                           |
| 35  | 2325107019 | 07/10/18 05:37 | MBW      | 1            | 207155 | IC-4        |                           |
| 36  | 2325107020 | 07/10/18 05:46 | MBW      | 1            | 207155 | IC-4        |                           |
| 37  | 2771933    | 07/10/18 05:55 | MBW      | 1            | 207156 | IC-4        |                           |
| 38  | 2771934    | 07/10/18 06:05 | MBW      | 1            | 207156 | IC-4        |                           |
| 39  | 2771935    | 07/10/18 06:14 | MBW      | 1            | 207156 | IC-4        |                           |
| 40  | 2771936    | 07/10/18 06:23 | MBW      | 1            | 207156 | IC-4        |                           |
| 41  | 2325107021 | 07/10/18 06:32 | MBW      | 1            | 207156 | IC-4        |                           |
| 42  | 2771937    | 07/10/18 06:41 | MBW      | 1            | 207156 | IC-4        |                           |
| 43  | 2771938    | 07/10/18 06:50 | MBW      | 1            | 207156 | IC-4        |                           |
| 44  | 2325107022 | 07/10/18 06:59 | MBW      | 1            | 207156 | IC-4        |                           |
| 45  | 2325107023 | 07/10/18 07:08 | MBW      | 1            | 207156 | IC-4        |                           |
| 46  | 2325107024 | 07/10/18 07:17 | MBW      | 1            | 207156 | IC-4        |                           |
| 47  | 2325107025 | 07/10/18 07:26 | MBW      | 1            | 207156 | IC-4        |                           |
| 48  | 2325107026 | 07/10/18 07:35 | MBW      | 1            | 207156 | IC-4        |                           |

|    |            |                |     |   |        |      |      |
|----|------------|----------------|-----|---|--------|------|------|
| 49 | 2325107027 | 07/10/18 07:45 | MBW | 1 | 207156 | IC-4 |      |
| 50 | 2325107028 | 07/10/18 07:54 | MBW | 1 | 207156 | IC-4 |      |
| 51 | 2325107029 | 07/10/18 08:03 | MBW | 1 | 207156 | IC-4 |      |
| 52 | 2325107030 | 07/10/18 08:12 | MBW | 1 | 207156 | IC-4 |      |
| 53 | 2771939    | 07/10/18 08:21 | MBW | 1 | 207156 | IC-4 |      |
| 54 | 2771940    | 07/10/18 08:30 | MBW | 1 | 207156 | IC-4 |      |
| 55 | 2325107031 | 07/10/18 08:39 | MBW | 1 | 207156 | IC-4 |      |
| 56 | 2771941    | 07/10/18 08:48 | MBW | 1 | 207156 | IC-4 |      |
| 57 | 2771942    | 07/10/18 08:57 | MBW | 1 | 207156 | IC-4 |      |
| 58 | 2325107032 | 07/10/18 09:07 | MBW | 1 | 207156 | IC-4 |      |
| 59 | 2325107033 | 07/10/18 09:16 | MBW | 1 | 207156 | IC-4 |      |
| 60 | 2325107034 | 07/10/18 09:25 | MBW | 1 | 207156 | IC-4 |      |
| 61 | 2325107035 | 07/10/18 09:34 | MBW | 1 | 207156 | IC-4 |      |
| 62 | 2325107036 | 07/10/18 09:43 | MBW | 1 | 207156 | IC-4 |      |
| 63 | 2325108001 | 07/10/18 09:52 | MBW | 1 | 207156 | IC-4 |      |
| 64 | 2771943    | 07/10/18 10:01 | MBW | 1 | 207156 | IC-4 |      |
| 65 | 2771944    | 07/10/18 10:10 | MBW | 1 | 207156 | IC-4 |      |
| 66 | SHUTDOWN   | 07/10/18 10:19 | MBW |   | 207156 | IC-4 | n.a. |



## Form 6B

SDG No. TLG026

Units: ug/L

[illegible]

(1) The following qualifiers are used:

\* : Values outside of acceptable limits

Comments:

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## APPENDIX C—CHEMICAL-RESULTS DATA TABLE

Appendix C  
Chemical-Results Data Table  
Page 1 of 8

[illegible]

Appendix C  
Chemical-Results Data Table  
Page 2 of 8

| LOCATION                       | MSA-SW39A        | MSA-SW39B        | MSA-SW39C        | MSA-SW39D        | MSA-SW40A        | MSA-SW40B        | MSA-SW40C        | MSA-SW40D        | MSA-SW41A        | MSA-SW41B        | MSA-SW41C        |
|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| SAMPLE ID                      | MSA-SW39A-070918 | MSA-SW39B-070918 | MSA-SW39C-070918 | MSA-SW39D-070918 | MSA-SW40A-070918 | MSA-SW40B-070918 | MSA-SW40C-070918 | MSA-SW40D-070918 | MSA-SW41A-070918 | MSA-SW41B-070918 | MSA-SW41C-070918 |
| SAMPLE DATE                    | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         | 20180709         |
| VOLATILES (UG/L)               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1,1,1,2-TETRACHLOROETHANE      | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           |
| 1,1,1-TRICHLOROETHANE          | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           |
| 1,1,2,2-TETRACHLOROETHANE      | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           |
| 1,1,2-TRICHLOROTRIFLUOROETHANE | 0.41 U           | 0.41 U           | 0.41 U           | 0.41 U           | 0.41 U           | 0.41 U           | 0.41 U           | 0.41 U           | 0.41 U           | 0.41 U           | 0.41 U           |
| 1,1-DICHLOROETHANE             | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           |
| 1,1-DICHLOROETHENE             | 0.19 UJ          | 0.19 U           | 0.19 U           | 0.19 U           | 0.19 U           | 0.19 U           | 0.19 U           | 0.19 U           | 0.19 U           | 0.19 U           | 0.19 U           |
| 1,1-DICHLOROPROPENE            | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           |
| 1,2,3-TRICHLOROBENZENE         | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           |
| 1,2,3-TRICHLOROPROPANE         | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           | 0.24 U           |
| 1,2,3-TRIMETHYLBENZENE         | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           |
| 1,2,4-TRICHLOROBENZENE         | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           |
| 1,2,4-TRIMETHYLBENZENE         | 0.07 U           | 0.07 U           | 0.07 U           | 0.07 U           | 0.07 U           | 0.07 U           | 0.07 U           | 0.07 U           | 0.07 U           | 0.07 U           | 0.07 U           |
| 1,2-DIBROMO-3-CHLOROPROPANE    | 0.91 U           | 0.91 U           | 0.91 U           | 0.91 U           | 0.91 U           | 0.91 U           | 0.91 U           | 0.91 U           | 0.91 U           | 0.91 U           | 0.91 U           |
| 1,2-DIBROMOETHANE              | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           |
| 1,2-DICHLOROBENZENE            | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           |
| 1,2-DICHLOROETHANE             | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           |
| 1,2-DICHLOROPROPANE            | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           |
| 1,3-DICHLOROBENZENE            | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           |
| 1,3-DICHLOROPROPANE            | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           | 0.21 U           |
| 1,4-DICHLOROBENZENE            | 0.16 U           | 0.16 U           | 0.16 U           | 0.16 U           | 0.16 U           | 0.16 U           | 0.16 U           | 0.16 U           | 0.16 U           | 0.16 U           | 0.16 U           |
| 2,2-DICHLOROPROPANE            | 0.31 U           | 0.31 U           | 0.31 U           | 0.31 U           | 0.31 U           | 0.31 U           | 0.31 U           | 0.31 U           | 0.31 U           | 0.31 U           | 0.31 U           |
| 2-BUTANONE                     | 1.3 J            | 1.2 U            | 1.2 U            | 1.2 U            | 1.2 U            | 1.2 U            | 1.2 U            | 1.2 U            | 1.2 U            | 1.2 U            | 1.2 U            |
| 2-CHLOROETHYL VINYL ETHER      | 0.26 UR          | 0.26 UR          | 0.26 UR          | 0.26 UR          | 0.26 UR          | 0.26 UR          | 0.26 UR          | 0.26 UR          | 0.26 UR          | 0.26 UR          | 0.26 UR          |
| 2-CHLOROTOLUENE                | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           |
| 2-HEXANONE                     | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           | 0.54 U           |
| 4-CHLOROTOLUENE                | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           |
| 4-ISOPROPYLTOLUENE             | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           |
| 4-METHYL-2-PENTANONE           | 0.42 UJ          | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           |
| ACETONE                        | 5.4 UJ           | 5.4 U            | 5.4 U            | 5.4 U            | 5.4 U            | 5.4 U            | 5.4 U            | 5.4 U            | 5.4 U            | 5.4 U            | 5.4 U            |
| BENZENE                        | 0.13 UJ          | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           |
| BROMOBENZENE                   | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           | 0.12 U           |
| BROMOCHLOROMETHANE             | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           |
| BROMODICHLOROMETHANE           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           |
| BROMOFORM                      | 0.76 U           | 0.76 U           | 0.76 U           | 0.76 U           | 0.76 U           | 0.76 U           | 0.76 U           | 0.76 U           | 0.76 U           | 0.76 U           | 0.76 U           |
| BROMOMETHANE                   | 0.42 UJ          | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           |
| CARBON DISULFIDE               | 0.28 U           | 0.28 U           | 0.28 U           | 0.28 U           | 0.28 U           | 0.28 U           | 0.28 U           | 0.28 U           | 0.28 U           | 0.28 U           | 0.28 U           |
| CARBON TETRACHLORIDE           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           | 0.26 U           |
| CHLOROBENZENE                  | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           | 0.14 U           |
| CHLORODIBROMOMETHANE           | 0.39 U           | 0.39 U           | 0.39 U           | 0.39 U           | 0.39 U           | 0.39 U           | 0.39 U           | 0.39 U           | 0.39 U           | 0.39 U           | 0.39 U           |
| CHLORODIFLUOROMETHANE          | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             |
| CHLOROETHANE                   | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           |
| CHLOROFORM                     | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           | 0.13 U           |
| CHLOROMETHANE                  | 0.2 U            | 0.2 U            | 0.2 U            | 0.2 U            | 0.2 U            | 0.2 U            | 0.2 U            | 0.2 U            | 0.2 U            | 0.2 U            | 0.2 U            |
| CIS-1,2-DICHLOROETHENE         | 0.16 U           | 0.16 U           | 0.16 J           | 0.24 J           | 0.18 J           | 0.33 J           | 0.21 J           | 0.16 U           | 0.16 U           | 0.18 J           | 0.16 U           |
| CIS-1,3-DICHLOROPROPENE        | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           |
| DIBROMOMETHANE                 | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           | 0.09 U           |
| DICHLORODIFLUOROMETHANE        | 0.35 U           | 0.35 U           | 0.35 U           | 0.35 U           | 0.35 U           | 0.35 U           | 0.35 U           | 0.35 U           | 0.35 U           | 0.35 U           | 0.35 U           |
| DIISOPROPYL ETHER              | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           |
| ETHYL TERT-BUTYL ETHER         | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           | 0.15 U           |
| ETHYLBENZENE                   | 0.11 U           | 0.11 U           | 0.11 U           | 0.11 U           | 0.11 U           | 0.11 U           | 0.11 U           | 0.11 U           | 0.11 U           | 0.11 U           | 0.11 U           |

Appendix C  
Chemical-Results Data Table  
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| LOCATION<br>SAMPLE ID<br>SAMPLE DATE              | EL-SW01A<br>EL-SW01A-070918<br>20180709 | EL-SW01B<br>EL-SW01B-070918<br>20180709 | EL-SW01C<br>EL-SW01C-070918<br>20180709 | EL-SW01D<br>EL-SW01D-070918<br>20180709 | MSA-SW37A<br>MSA-SW37A-070918<br>20180709 | MSA-SW37B<br>MSA-SW37B-070918<br>20180709 | MSA-SW37C<br>MSA-SW37C-070918<br>20180709 | MSA-SW37D<br>MSA-SW37D-070918<br>20180709 | MSA-SW38A<br>MSA-SW38A-070918<br>20180709 | MSA-SW38B<br>MSA-SW38B-070918<br>20180709 | MSA-SW38C<br>MSA-SW38C-070918<br>20180709 | MSA-SW38D<br>MSA-SW38D-070918<br>20180709 |
|---------------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| HEXACHLOROBUTADIENE                               | 0.83 UJ                                 | 0.83 UJ                                 | 0.83 UJ                                 | 0.83 UJ                                 | 0.83 U                                    | 0.83 U                                    | 0.83 U                                    | 0.83 U                                    | 0.83 U                                    | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   |
| ISOPROPYLBENZENE                                  | 0.09 U                                  | 0.09 U                                  | 0.09 U                                  | 0.09 U                                  | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    |
| M+P-XYLENES                                       | 0.08 U                                  | 0.08 U                                  | 0.08 U                                  | 0.08 U                                  | 0.23 J                                    | 0.14 J                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    |
| METHYL TERT-BUTYL ETHER                           | 0.07 U                                  | 0.07 U                                  | 0.07 U                                  | 0.07 U                                  | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    |
| METHYLENE CHLORIDE                                | 2.6 U                                   | 2.6 U                                   | 2.6 U                                   | 2.6 U                                   | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     |
| NAPHTHALENE                                       | 0.32 U                                  | 0.32 U                                  | 0.32 U                                  | 0.32 UJ                                 | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    |
| N-BUTYLBENZENE                                    | 0.14 U                                  | 0.14 U                                  | 0.14 U                                  | 0.14 UJ                                 | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    |
| N-PROPYLBENZENE                                   | 0.15 U                                  | 0.15 U                                  | 0.15 U                                  | 0.15 U                                  | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    |
| O-XYLENE                                          | 0.09 U                                  | 0.09 U                                  | 0.09 U                                  | 0.09 U                                  | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    |
| SEC-BUTYLBENZENE                                  | 0.13 U                                  | 0.13 U                                  | 0.13 U                                  | 0.13 U                                  | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    |
| STYRENE                                           | 0.1 U                                   | 0.1 U                                   | 0.1 U                                   | 0.1 U                                   | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     |
| TERT-AMYL METHYL ETHER                            | 0.11 U                                  | 0.11 U                                  | 0.11 U                                  | 0.11 U                                  | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    |
| TERT-BUTYLBENZENE                                 | 0.14 U                                  | 0.14 U                                  | 0.14 U                                  | 0.14 UJ                                 | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    |
| TERTIARY-BUTYL ALCOHOL                            | 1.7 UJ                                  | 1.7 UJ                                  | 1.7 UJ                                  | 1.7 U                                   | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 UJ                                    |
| TETRACHLOROETHENE                                 | 0.15 U                                  | 0.15 U                                  | 0.15 U                                  | 0.15 U                                  | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    |
| TOLUENE                                           | 0.14 U                                  | 0.14 U                                  | 0.14 U                                  | 0.14 U                                  | 0.39 J                                    | 0.25 J                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    |
| TOTAL XYLENES                                     | 0.15 U                                  | 0.15 U                                  | 0.15 U                                  | 0.15 U                                  | 0.23 J                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    |
| TRANS-1,2-DICHLOROETHENE                          | 0.19 U                                  | 0.19 U                                  | 0.19 U                                  | 0.19 U                                  | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    |
| TRANS-1,3-DICHLOROPROPENE                         | 0.67 U                                  | 0.67 U                                  | 0.67 U                                  | 0.67 U                                  | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    |
| TRICHLOROETHENE                                   | 0.1 U                                   | 0.1 U                                   | 0.1 U                                   | 0.1 U                                   | 0.1 U                                     | 0.11 J                                    | 0.11 J                                    | 0.1 U                                     | 0.15 J                                    | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     |
| TRICHLOROFLUOROMETHANE                            | 0.45 U                                  | 0.45 U                                  | 0.45 U                                  | 0.45 U                                  | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    |
| VINYL ACETATE                                     | 0.19 UJ                                 | 0.19 UJ                                 | 0.19 UJ                                 | 0.19 U                                  | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    |
| VINYL CHLORIDE                                    | 0.2 U                                   | 0.2 U                                   | 0.2 U                                   | 0.2 UJ                                  | 0.2 U                                     | 0.26 J                                    | 0.2 U                                     | 0.2 U                                     | 0.99                                      | 0.2 UJ                                    | 0.2 UJ                                    | 0.2 UJ                                    |
| TENTATIVELY IDENTIFIED COMPOUNDS-VOLATILES (UG/L) |                                         |                                         |                                         |                                         |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| UNKNOWN                                           | NA                                      | NA                                      | NA                                      | NA                                      | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        |
| DISSOLVED METALS (UG/L)                           |                                         |                                         |                                         |                                         |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| ANTIMONY                                          | NA                                      | NA                                      | NA                                      | NA                                      | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    |
| ARSENIC                                           | NA                                      | NA                                      | NA                                      | NA                                      | 1.5 J                                     | 1.8 J                                     | 1.5 J                                     | 1.1 J                                     | 1.5 J                                     | 1.4 J                                     | 1.4 J                                     | 1.4 J                                     |
| BARIUM                                            | NA                                      | NA                                      | NA                                      | NA                                      | 12                                        | 13                                        | 13                                        | 12                                        | 12                                        | 13                                        | 14                                        | 12                                        |
| BERYLLIUM                                         | NA                                      | NA                                      | NA                                      | NA                                      | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    |
| CADMIUM                                           | NA                                      | NA                                      | NA                                      | NA                                      | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.25 J                                    | 0.21 U                                    |
| CHROMIUM                                          | NA                                      | NA                                      | NA                                      | NA                                      | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    |
| COBALT                                            | NA                                      | NA                                      | NA                                      | NA                                      | 0.19 U                                    | 0.26 J                                    | 0.19 U                                    | 0.19 U                                    | 0.38 J                                    | 0.35 J                                    | 0.48 J                                    | 0.19 U                                    |
| COPPER                                            | NA                                      | NA                                      | NA                                      | NA                                      | 5.2                                       | 5.7                                       | 5.7                                       | 5.2                                       | 5.5                                       | 6.3                                       | 5.6                                       | 5.6                                       |
| LEAD                                              | NA                                      | NA                                      | NA                                      | NA                                      | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    |
| MERCURY                                           | NA                                      | NA                                      | NA                                      | NA                                      | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    |
| MOLYBDENUM                                        | NA                                      | NA                                      | NA                                      | NA                                      | 1.8 J                                     | 1.8 J                                     | 1.7 J                                     | 1.6 J                                     | 1.6 J                                     | 1.6 J                                     | 1.7 J                                     | 1.6 J                                     |
| NICKEL                                            | NA                                      | NA                                      | NA                                      | NA                                      | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     |
| SELENIUM                                          | NA                                      | NA                                      | NA                                      | NA                                      | 0.89 U                                    | 0.98 J                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    |
| SILVER                                            | NA                                      | NA                                      | NA                                      | NA                                      | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   |
| THALLIUM                                          | NA                                      | NA                                      | NA                                      | NA                                      | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     |
| TUNGSTEN                                          | NA                                      | NA                                      | NA                                      | NA                                      | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     |
| VANADIUM                                          | NA                                      | NA                                      | NA                                      | NA                                      | 1 J                                       | 1.1 J                                     | 1.2 J                                     | 1 J                                       | 0.96 J                                    | 1.1 J                                     | 1 J                                       | 0.94 J                                    |
| ZINC                                              | NA                                      | NA                                      | NA                                      | NA                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      |
| MISCELLANEOUS PARAMETERS (UG/L)                   |                                         |                                         |                                         |                                         |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| HEXVALENT CHROMIUM                                | NA                                      | NA                                      | NA                                      | NA                                      | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   |
| MISCELLANEOUS PARAMETERS (MG/L)                   |                                         |                                         |                                         |                                         |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| CALCIUM HARDNESS AS CaCO3                         | NA                                      | NA                                      | NA                                      | NA                                      | 60                                        | 61                                        | 61                                        | 58                                        | 59                                        | 62                                        | 63                                        | 60                                        |
| HARDNESS AS CaCO3                                 | NA                                      | NA                                      | NA                                      | NA                                      | 230                                       | 240                                       | 240                                       | 220                                       | 230                                       | 240                                       | 250                                       | 230                                       |
| MAGNESIUM HARDNESS AS CaCO3                       | NA                                      | NA                                      | NA                                      | NA                                      | 170                                       | 180                                       | 170                                       | 160                                       | 170                                       | 180                                       | 180                                       | 170                                       |



Appendix C  
Chemical-Results Data Table  
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| LOCATION<br>SAMPLE ID<br>SAMPLE DATE              | MSA-SW39A<br>MSA-SW39A-070918<br>20180709 | MSA-SW39B<br>MSA-SW39B-070918<br>20180709 | MSA-SW39C<br>MSA-SW39C-070918<br>20180709 | MSA-SW39D<br>MSA-SW39D-070918<br>20180709 | MSA-SW40A<br>MSA-SW40A-070918<br>20180709 | MSA-SW40B<br>MSA-SW40B-070918<br>20180709 | MSA-SW40C<br>MSA-SW40C-070918<br>20180709 | MSA-SW40D<br>MSA-SW40D-070918<br>20180709 | MSA-SW41A<br>MSA-SW41A-070918<br>20180709 | MSA-SW41B<br>MSA-SW41B-070918<br>20180709 | MSA-SW41C<br>MSA-SW41C-070918<br>20180709 |
|---------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| HEXACHLOROBUTADIENE                               | 0.83 U                                    | 0.83 U                                    | 0.83 U                                    | 0.83 U                                    | 0.83 U                                    | 0.83 U                                    | 0.83 U                                    | 0.83 U                                    | 0.83 U                                    | 0.83 U                                    | 0.83 U                                    |
| ISOPROPYLBENZENE                                  | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    |
| M+P-XYLENES                                       | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    |
| METHYL TERT-BUTYL ETHER                           | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    |
| METHYLENE CHLORIDE                                | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     |
| NAPHTHALENE                                       | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    |
| N-BUTYLBENZENE                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    |
| N-PROPYLBENZENE                                   | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    |
| O-XYLENE                                          | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    |
| SEC-BUTYLBENZENE                                  | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    |
| STYRENE                                           | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     |
| TERT-AMYL METHYL ETHER                            | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    |
| TERT-BUTYLBENZENE                                 | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    |
| TERTIARY-BUTYL ALCOHOL                            | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     |
| TETRACHLOROETHENE                                 | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    |
| TOLUENE                                           | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    |
| TOTAL XYLENES                                     | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    |
| TRANS-1,2-DICHLOROETHENE                          | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    |
| TRANS-1,3-DICHLOROPROPENE                         | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    |
| TRICHLOROETHENE                                   | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.23 J                                    | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     |
| TRICHLOROFLUOROMETHANE                            | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    |
| VINYL ACETATE                                     | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    |
| VINYL CHLORIDE                                    | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     |
| TENTATIVELY IDENTIFIED COMPOUNDS-VOLATILES (UG/L) |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| UNKNOWN                                           | NA                                        | 2.9 NJ                                    | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        |
| DISSOLVED METALS (UG/L)                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| ANTIMONY                                          | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    |
| ARSENIC                                           | 1.2 J                                     | 1.2 J                                     | 1.1 J                                     | 1.4 J                                     | 1.3 J                                     | 1.5 J                                     | 1.4 J                                     | 1.8 J                                     | 1.5 J                                     | 1.2 J                                     | 1.5 J                                     |
| BARIUM                                            | 14                                        | 14                                        | 14                                        | 14                                        | 12                                        | 13                                        | 14                                        | 14                                        | 13                                        | 13                                        | 13                                        |
| BERYLLIUM                                         | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    |
| CADMIUM                                           | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    |
| CHROMIUM                                          | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 1.2 J                                     | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    |
| COBALT                                            | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.36 J                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    |
| COPPER                                            | 4.2                                       | 5                                         | 5.2                                       | 5.6                                       | 5.2                                       | 5.8                                       | 6                                         | 8.3                                       | 5.8                                       | 5.7                                       | 5.5                                       |
| LEAD                                              | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.92 J                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    |
| MERCURY                                           | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    |
| MOLYBDENUM                                        | 1.6 J                                     | 1.7 J                                     | 1.7 J                                     | 1.6 J                                     | 1.6 J                                     | 1.7 J                                     | 1.7 J                                     | 1.7 J                                     | 1.7 J                                     | 1.7 J                                     | 1.7 J                                     |
| NICKEL                                            | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     |
| SELENIUM                                          | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    |
| SILVER                                            | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   |
| THALLIUM                                          | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     |
| TUNGSTEN                                          | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     |
| VANADIUM                                          | 0.82 U                                    | 0.82 U                                    | 0.93 J                                    | 0.82 J                                    | 0.93 J                                    | 1.1 J                                     | 1.1 J                                     | 1.4 J                                     | 0.92 J                                    | 1 J                                       | 0.86 J                                    |
| ZINC                                              | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      |
| MISCELLANEOUS PARAMETERS (UG/L)                   |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| HEXAVALENT CHROMIUM                               | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   |
| MISCELLANEOUS PARAMETERS (MG/L)                   |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| CALCIUM HARDNESS AS CaCO3                         | 60                                        | 64                                        | 65                                        | 63                                        | 59                                        | 61                                        | 61                                        | 60                                        | 63                                        | 62                                        | 62                                        |
| HARDNESS AS CaCO3                                 | 240                                       | 260                                       | 270                                       | 250                                       | 230                                       | 240                                       | 240                                       | 230                                       | 250                                       | 250                                       | 240                                       |
| MAGNESIUM HARDNESS AS CaCO3                       | 180                                       | 200                                       | 200                                       | 190                                       | 170                                       | 180                                       | 180                                       | 170                                       | 180                                       | 180                                       | 180                                       |



Appendix C  
Chemical-Results Data Table  
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| LOCATION<br>SAMPLE ID<br>SAMPLE DATE              | MSA-SW41D<br>MSA-SW41D-070918<br>20180709 | MSA-SW42A<br>MSA-SW42A-070918<br>20180709 | MSA-SW42B<br>MSA-SW42B-070918<br>20180709 | MSA-SW42C<br>MSA-SW42C-070918<br>20180709 | MSA-SW42D<br>MSA-SW42D-070918<br>20180709 | MSA-SW43A<br>MSA-SW43A-070918<br>20180709 | MSA-SW43B<br>MSA-SW43B-070918<br>20180709 | MSA-SW43C<br>MSA-SW43C-070918<br>20180709 | MSA-SW43D<br>MSA-SW43D-070918<br>20180709 | MSA-SW44A<br>MSA-SW44A-070918<br>20180709 |
|---------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| HEXACHLOROBUTADIENE                               | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   |
| ISOPROPYLBENZENE                                  | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    |
| M+P-XYLENES                                       | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    |
| METHYL TERT-BUTYL ETHER                           | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    |
| METHYLENE CHLORIDE                                | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     |
| NAPHTHALENE                                       | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    |
| N-BUTYLBENZENE                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    |
| N-PROPYLBENZENE                                   | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    |
| O-XYLENE                                          | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    |
| SEC-BUTYLBENZENE                                  | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    |
| STYRENE                                           | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     |
| TERT-AMYL METHYL ETHER                            | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    |
| TERT-BUTYLBENZENE                                 | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    |
| TERTIARY-BUTYL ALCOHOL                            | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 UJ                                    |
| TETRACHLOROETHENE                                 | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    |
| TOLUENE                                           | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    |
| TOTAL XYLENES                                     | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    |
| TRANS-1,2-DICHLOROETHENE                          | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    |
| TRANS-1,3-DICHLOROPROPENE                         | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    |
| TRICHLOROETHENE                                   | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     |
| TRICHLOROFLUOROMETHANE                            | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    |
| VINYL ACETATE                                     | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   |
| VINYL CHLORIDE                                    | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     |
| TENTATIVELY IDENTIFIED COMPOUNDS-VOLATILES (UG/L) |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| UNKNOWN                                           | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        |
| DISSOLVED METALS (UG/L)                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| ANTIMONY                                          | 0.57 U                                    | 0.57 U                                    | 0.61 J                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    |
| ARSENIC                                           | 1.2 J                                     | 1.7 J                                     | 1.7 J                                     | 1.6 J                                     | 1.4 J                                     | 1.4 J                                     | 1.2 J                                     | 1.4 J                                     | 1.4 J                                     | 1.2 J                                     |
| BARIUM                                            | 13                                        | 13                                        | 13                                        | 12                                        | 13                                        | 13                                        | 13                                        | 13                                        | 13                                        | 13                                        |
| BERYLLIUM                                         | 0.31 U                                    | 0.44 J                                    | 0.88 J                                    | 0.55 J                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    |
| CADMIUM                                           | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    |
| CHROMIUM                                          | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    |
| COBALT                                            | 0.19 U                                    | 0.33 J                                    | 0.31 J                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    |
| COPPER                                            | 5.3                                       | 6.7                                       | 5.5                                       | 5.4                                       | 5.6                                       | 5.8                                       | 5.8                                       | 5.5                                       | 5.8                                       | 5.6                                       |
| LEAD                                              | 0.45 U                                    | 0.6 J                                     | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    |
| MERCURY                                           | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    |
| MOLYBDENUM                                        | 1.7 J                                     | 1.8 J                                     | 1.8 J                                     | 1.6 J                                     | 1.7 J                                     | 1.6 J                                     | 1.7 J                                     | 1.7 J                                     | 1.7 J                                     | 1.7 J                                     |
| NICKEL                                            | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     |
| SELENIUM                                          | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    |
| SILVER                                            | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   |
| THALLIUM                                          | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     |
| TUNGSTEN                                          | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     |
| VANADIUM                                          | 0.97 J                                    | 1.4 J                                     | 1 J                                       | 1 J                                       | 0.97 J                                    | 0.93 J                                    | 0.98 J                                    | 1 J                                       | 0.99 J                                    | 0.96 J                                    |
| ZINC                                              | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      |
| MISCELLANEOUS PARAMETERS (UG/L)                   |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| HEXAVALENT CHROMIUM                               | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   |
| MISCELLANEOUS PARAMETERS (MG/L)                   |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| CALCIUM HARDNESS AS CaCO3                         | 60                                        | 62                                        | 60                                        | 59                                        | 61                                        | 60                                        | 62                                        | 62                                        | 61                                        | 64                                        |
| HARDNESS AS CaCO3                                 | 230                                       | 250                                       | 240                                       | 230                                       | 240                                       | 240                                       | 250                                       | 250                                       | 240                                       | 260                                       |
| MAGNESIUM HARDNESS AS CaCO3                       | 170                                       | 180                                       | 180                                       | 170                                       | 180                                       | 180                                       | 180                                       | 180                                       | 180                                       | 190                                       |

Appendix C  
Chemical-Results Data Table  
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| LOCATION<br>SAMPLE ID<br>SAMPLE DATE              | MSA-SW44B<br>MSA-SW44B-070918<br>20180709 | MSA-SW44C<br>MSA-SW44C-070918<br>20180709 | MSA-SW44D<br>MSA-SW44D-070918<br>20180709 | MSA-SW45A<br>MSA-SW45A-070918<br>20180709 | MSA-SW45B<br>MSA-SW45B-070918<br>20180709 | MSA-SW45C<br>MSA-SW45C-070918<br>20180709 | MSA-SW45D<br>MSA-SW45D-070918<br>20180709 | MSA-SW46A<br>MSA-SW46A-070918<br>20180709 | MSA-SW47A<br>MSA-SW47A-070918<br>20180709 | MSA-SW48A<br>MSA-SW48A-070918<br>20180709 | MSA-SW49A<br>MSA-SW49A-070918<br>20180709 |
|---------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| HEXACHLOROBUTADIENE                               | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   | 0.83 UJ                                   |
| ISOPROPYLBENZENE                                  | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    |
| M+P-XYLENES                                       | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    | 0.08 U                                    |
| METHYL TERT-BUTYL ETHER                           | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    | 0.07 U                                    |
| METHYLENE CHLORIDE                                | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     | 2.6 U                                     |
| NAPHTHALENE                                       | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 U                                    | 0.32 UJ                                   | 0.32 UJ                                   | 0.32 UJ                                   | 0.32 UJ                                   |
| N-BUTYLBENZENE                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 UJ                                   | 0.14 UJ                                   | 0.14 UJ                                   | 0.14 UJ                                   |
| N-PROPYLBENZENE                                   | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    |
| O-XYLENE                                          | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    | 0.09 U                                    |
| SEC-BUTYLBENZENE                                  | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    |
| STYRENE                                           | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     |
| TERT-AMYL METHYL ETHER                            | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    | 0.11 U                                    |
| TERT-BUTYLBENZENE                                 | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 UJ                                   | 0.14 UJ                                   | 0.14 UJ                                   | 0.14 UJ                                   |
| TERTIARY-BUTYL ALCOHOL                            | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 UJ                                    | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     | 1.7 U                                     |
| TETRACHLOROETHENE                                 | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    |
| TOLUENE                                           | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    | 0.14 U                                    |
| TOTAL XYLENES                                     | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    | 0.15 U                                    |
| TRANS-1,2-DICHLOROETHENE                          | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    |
| TRANS-1,3-DICHLOROPROPENE                         | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    | 0.67 U                                    |
| TRICHLOROETHENE                                   | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.13 J                                    | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.1 U                                     | 0.13 J                                    |
| TRICHLOROFLUOROMETHANE                            | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    |
| VINYL ACETATE                                     | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   | 0.19 UJ                                   |
| VINYL CHLORIDE                                    | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 UJ                                    | 0.2 UJ                                    | 0.2 UJ                                    | 0.2 UJ                                    |
| TENTATIVELY IDENTIFIED COMPOUNDS-VOLATILES (UG/L) |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| UNKNOWN                                           | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        | NA                                        |
| DISSOLVED METALS (UG/L)                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| ANTIMONY                                          | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | 0.57 U                                    | NA                                        | NA                                        | NA                                        | NA                                        |
| ARSENIC                                           | 1.1 J                                     | 1.1 J                                     | 1.3 J                                     | 1.1 J                                     | 1.3 J                                     | 1.3 J                                     | 1.4 J                                     | NA                                        | NA                                        | NA                                        | NA                                        |
| BARIUM                                            | 13                                        | 12                                        | 14                                        | 13                                        | 14                                        | 13                                        | 14                                        | NA                                        | NA                                        | NA                                        | NA                                        |
| BERYLLIUM                                         | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | 0.31 U                                    | NA                                        | NA                                        | NA                                        | NA                                        |
| CADMIUM                                           | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | 0.21 U                                    | NA                                        | NA                                        | NA                                        | NA                                        |
| CHROMIUM                                          | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | 0.98 U                                    | NA                                        | NA                                        | NA                                        | NA                                        |
| COBALT                                            | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | 0.19 U                                    | NA                                        | NA                                        | NA                                        | NA                                        |
| COPPER                                            | 5.5                                       | 5.9                                       | 5.7                                       | 4.4                                       | 5.4                                       | 5.3                                       | 5.8                                       | NA                                        | NA                                        | NA                                        | NA                                        |
| LEAD                                              | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | 0.45 U                                    | NA                                        | NA                                        | NA                                        | NA                                        |
| MERCURY                                           | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | 0.13 U                                    | NA                                        | NA                                        | NA                                        | NA                                        |
| MOLYBDENUM                                        | 1.7 J                                     | 1.5 J                                     | 1.7 J                                     | 1.5 J                                     | 1.7 J                                     | 1.7 J                                     | 1.7 J                                     | NA                                        | NA                                        | NA                                        | NA                                        |
| NICKEL                                            | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | 1.5 U                                     | NA                                        | NA                                        | NA                                        | NA                                        |
| SELENIUM                                          | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | 0.89 U                                    | NA                                        | NA                                        | NA                                        | NA                                        |
| SILVER                                            | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | 0.053 U                                   | NA                                        | NA                                        | NA                                        | NA                                        |
| THALLIUM                                          | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | 0.2 U                                     | NA                                        | NA                                        | NA                                        | NA                                        |
| TUNGSTEN                                          | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | 1.8 U                                     | NA                                        | NA                                        | NA                                        | NA                                        |
| VANADIUM                                          | 0.96 J                                    | 0.82 J                                    | 0.82 U                                    | 0.82 U                                    | 0.82 U                                    | 0.83 J                                    | 0.9 J                                     | NA                                        | NA                                        | NA                                        | NA                                        |
| ZINC                                              | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | 15 U                                      | NA                                        | NA                                        | NA                                        | NA                                        |
| MISCELLANEOUS PARAMETERS (UG/L)                   |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| HEXAVALENT CHROMIUM                               | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | 0.047 U                                   | NA                                        | NA                                        | NA                                        | NA                                        |
| MISCELLANEOUS PARAMETERS (MG/L)                   |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |                                           |
| CALCIUM HARDNESS AS CaCO3                         | 63                                        | 58                                        | 65                                        | 58                                        | 64                                        | 64                                        | 62                                        | NA                                        | NA                                        | NA                                        | NA                                        |
| HARDNESS AS CaCO3                                 | 250                                       | 230                                       | 260                                       | 240                                       | 250                                       | 260                                       | 250                                       | NA                                        | NA                                        | NA                                        | NA                                        |
| MAGNESIUM HARDNESS AS CaCO3                       | 190                                       | 170                                       | 190                                       | 180                                       | 190                                       | 190                                       | 190                                       | NA                                        | NA                                        | NA                                        | NA                                        |