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July 27, 2016

VIA OVERNIGHT CARRIER

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:
March 2016 Surface Water Sampling Results for Frog Mortar Creek
Martin State Airport, 701 Wilson Point Road, Middle River, Maryland

Dear Mr. Carroll:

For your use and reference, please find enclosed two hard copies with CDs of the above-referenced document. This document presents the analytical results of the March surface water samples collected in Frog Mortar Creek adjacent to the Dump Road Area at Martin State Airport in Middle River, Maryland

If you have any questions or require any additional information please contact me by phone at 240-676-5392, or via e-mail at paul.calligan@lmco.com.

Sincerely,

A handwritten signature in black ink that reads "Paul E. Calligan". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Paul E. Calligan, P.G.
Project Lead, Environmental Remediation
Lockheed Martin Corporation

cc: (via email without enclosure)
Anuradha Mohanty, MDE
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Jann Richardson, Lockheed Martin
Pete Lekas, EA Environmental

**Technical Memorandum:
March 2016
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.

July 2016



Michael Martin, P.G.
Regional Manager



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ACRONYMS

AWQC	ambient water quality criteria
BTAG	(USEPA) Biological Technical Advisory Group
BTEX	benzene, toluene, ethylbenzene, and xylenes
<i>cis</i> -1,2-DCE	<i>cis</i> -1,2-dichloroethene
COMAR	<i>Code of Maryland Regulations</i>
cVOC	chlorinated volatile organic compound
DRA	Dump Road Area
EL	Edwards Lane
GIS	geographic information system
IDW	investigation-derived waste
Lockheed Martin	Lockheed Martin Corporation
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
TB	trip blank
TCE	trichloroethene (also known as trichloroethylene)
Tetra Tech	Tetra Tech, Inc.
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 surface water sampling results from samples collected 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 *2016 Surface Water Sampling Work Plan* (Tetra Tech, 2015). This technical memorandum presents the analytical results for surface water samples collected from Frog Mortar Creek on March 7, 2016. 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 from possible 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 waters using sampling locations for nine established western-shoreline transects, four single-sample 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 discharge to Frog Mortar Creek

This technical memorandum is organized as follows:

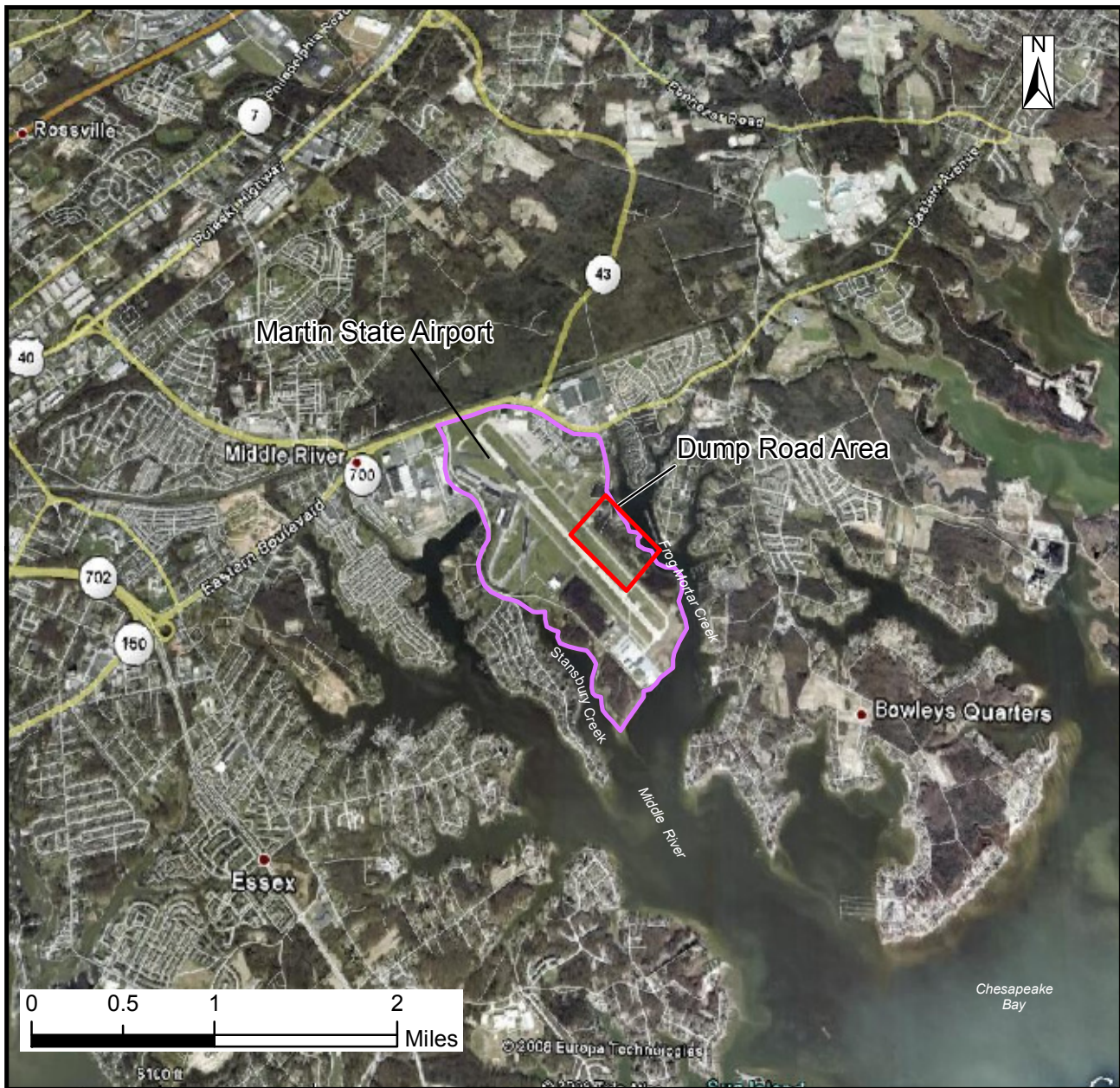
Section 2—Site Background and Previous Investigations: Briefly describes the site and previous Frog Mortar Creek investigations.

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.



Source: Google Earth Pro, 2008

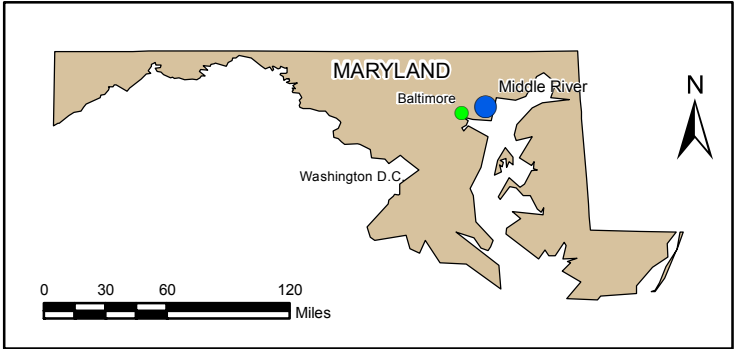


FIGURE 1-1

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

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

DATE MODIFIED:

1/9/12

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MP



Section 2

Site Background and Previous Investigations

Martin State Airport (MSA) is at 701 Wilson Point Road in Middle River, Maryland. It is bounded by Frog Mortar Creek to the east and Stansbury Creek to the west (Figure 2-1); both are tidal tributaries of Chesapeake Bay. The area under investigation is Frog Mortar Creek, which is east of and adjacent to the Dump Road Area (DRA) site at MSA (Figures 2-1 and 2-2).

The DRA currently consists mostly of open meadows, mowed grass, and heavily wooded areas; 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 the MDANG and by state-owned and private aircraft.

Detailed environmental studies have been conducted at the DRA since 1991, when the Maryland Aviation Administration 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 volatile organic compounds (VOCs), semivolatile organic compounds, and metals resulting from historical dumping and backfilling. The following constituents (and several metals) have been detected in DRA groundwater at concentrations exceeding state groundwater standards:

- **chlorinated VOCs** (cVOCs), including trichloroethene (TCE; also known as trichloroethylene), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC)
- **petroleum-related VOCs** such as benzene, toluene, ethylbenzene, and xylenes (BTEX)

Frog Mortar Creek is hydraulically downgradient of the DRA and receives groundwater discharging from the DRA. The constituents listed above and several metals have also 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 conducted at Frog Mortar Creek from 1997–2015, 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 *2015 Surface Water Sampling Report for Frog Mortar Creek* (Tetra Tech, 2016), and therefore are not repeated herein.



Aerial photograph provided by ESRI's ArcGIS Online World Imagery map service (© 2011 ESRI and its data suppliers).

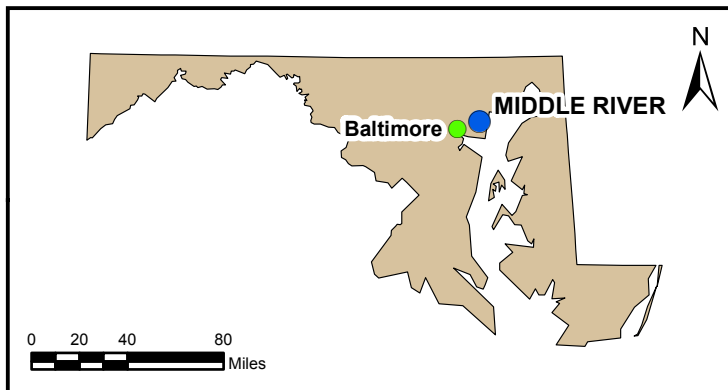


FIGURE 2-1

MARTIN STATE AIRPORT AND SURROUNDING FEATURES

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

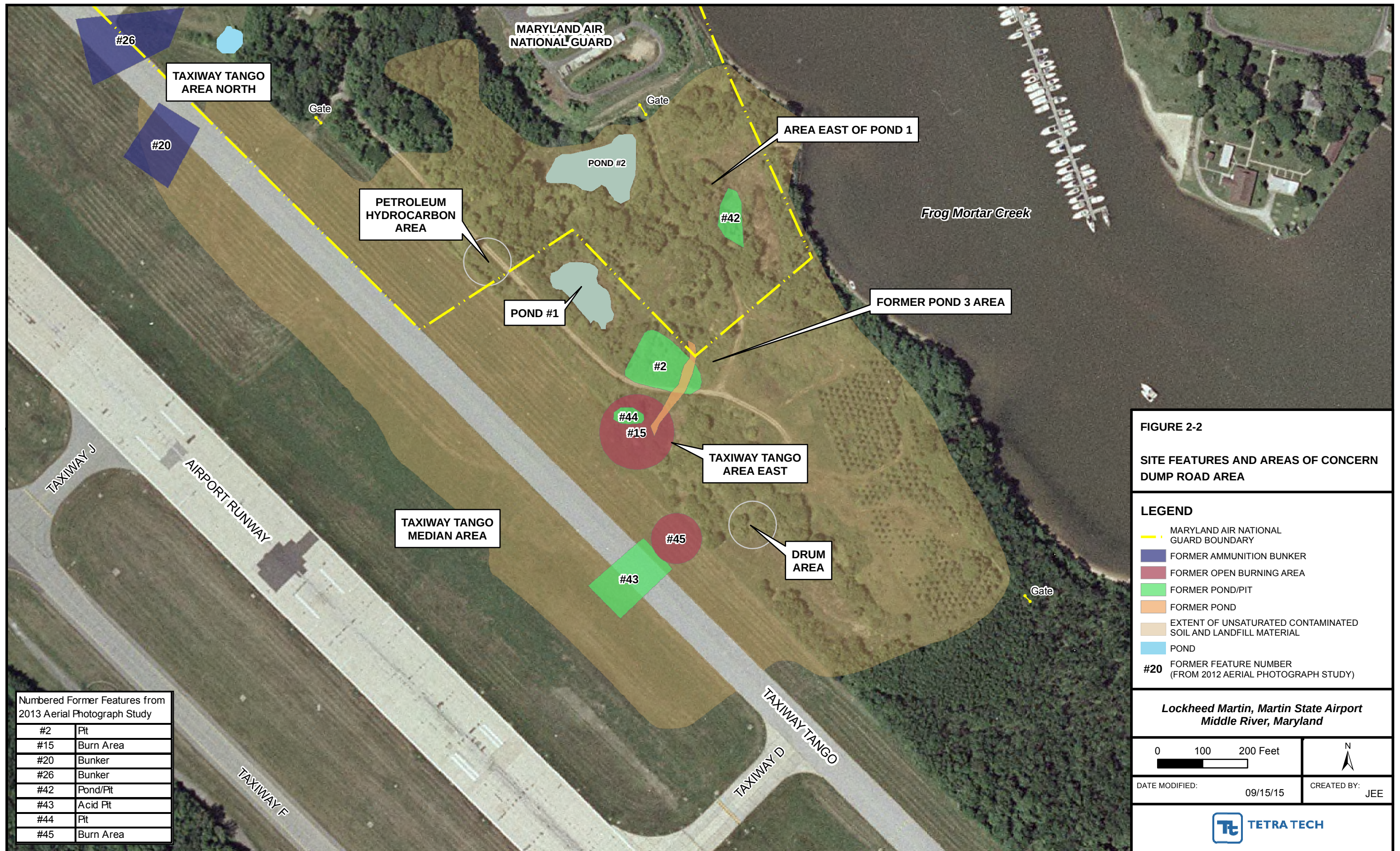
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Section 3

Investigation Approach and Methodology

Previous surface water sampling data for Frog Mortar Creek support the need for additional investigations to assess the extent to which surface water is affected by groundwater discharged from the Dump Road Area (DRA). The volatile organic compounds (VOCs) trichloroethene (TCE; also known as trichloroethylene) and vinyl chloride (VC) have previously been detected in Frog Mortar Creek surface water samples at concentrations exceeding ecological and/or human health screening-criteria; these analytes have also been detected in groundwater at the DRA. Surface water data obtained from Frog Mortar Creek were used to evaluate the chemical concentrations detected with respect to United States Environmental Protection Agency (USEPA) or Maryland screening levels for these constituents. 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 March 2016 sampling event is the first of six surface-water sampling rounds planned for 2016. The March sampling round assessed water quality in early spring, when minimal water-recreation is expected in Frog Mortar Creek. The next sampling round is scheduled for June 2016.

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 March 7, 2016. Sampling locations are shown in Figure 3-1. Four samples were collected along each of nine transects spaced approximately 350 feet apart along the western shoreline of Frog Mortar Creek; these transects are designated MSA-SW37, MSA-SW38, MSA-SW39,

MSA-SW40, MSA-SW41, MSA-SW42, MSA-SW43, MSA-SW44, and MSA-SW45. Four samples were also collected along a transect extending out from the eastern shoreline of the creek at 3301 Edwards Lane (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 with the highest VOC concentrations, and will be included in all 2016 sampling rounds.

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 at sampling locations surveyed in the Maryland State Plane North American Datum 1983 (in feet) using a handheld global positioning system receiver.

Western-shoreline transect samples (MSA-SW37 through MSA-SW45) were analyzed for the following:

- 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, metals exceedances (above the screening criteria) have been limited to areas adjacent to or near the western shoreline (i.e., main-channel metal concentrations were less than the screening criteria), so the eastern shoreline-transect samples (i.e., EL-SW01A–D) were not analyzed for metals, and were analyzed only for VOCs. Western-shoreline samples MSA-SW46A through MSA-SW49A were analyzed for VOCs by SW846 Method 8260C (including Freon 113 [1,1,2-trichloro-1,2,2-trifluoroethane], Freon 22 [chlorodifluoromethane] and tentatively identified compounds). Hexavalent chromium and total chromium have been detected in DRA

groundwater; therefore, all western-shoreline samples except SW46A–SW49A were also analyzed for hexavalent chromium.

Table 3-1 lists analytical parameters for Frog Mortar Creek surface water samples. 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).

Tidal-gauge water measurements were also obtained from the staff gauge at 3301 Edwards Lane before (2.72 feet at 09:51 hours) and after (2.92 feet at 13:40 hours) the sampling event. Mean tidal flux in the Middle River, Maryland area is approximately 1.6 feet (National Oceanic and Atmospheric Administration [NOAA], 2015). Lockheed Martin conducted a study in 2011 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 event.

Hexavalent chromium samples were collected in pre-cleaned bottles containing no sample preservatives (i.e., no nitric acid for preservation, as compared to other metal samples). Each bottle was submerged approximately one foot below the water surface and allowed to fill. Hexavalent chromium samples were expedited to the laboratory so they could be analyzed within 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 March 7, 2016 from MSA-SW37A would be labeled “MSA-SW37A-030716.” The trip blank was labeled with a “TB” prefix followed by the sample’s six-digit submittal date (e.g., TB-030716).

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.

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 were used for surface water sampling to reduce decontamination activities and eliminate potential sample cross-contamination. 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 this sampling event.

3.1.5 Waste Management

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

3.2 DATA MANAGEMENT

Laboratory data-handling procedures met the requirements of the laboratory subcontract. All analytical and field data are maintained in project files, including copies of 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 the sampling event. The field operations leader began and coordinated sample tracking before mobilizing the sampling team to the field. Preprinted sample-container labels generated before fieldwork began were reviewed to ensure that they were accurate and adhered to work plan requirements. The project manager coordinated with the analytical laboratory to ensure that the laboratory was aware of the number and type of samples and analyses that would be submitted.

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

3.2.3 Project Data Compilation

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

3.2.4 Geographic Information System

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

3.3 DATA REVIEW

Data from the laboratory were entered into a sample database and evaluated against risk-based criteria. Data 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 the *USEPA Region III Modifications to the National Functional Guidelines for Data Review* (USEPA, 1993 and 1994) and the specifics of the analytical methods used. Data from this sampling event consist of 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 March 2016 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 flag). 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 the value is estimated and may not meet highest accuracy or precision standards. In this program, samples were qualified with “*J*” because quantitation was above the method detection limit but below the laboratory reporting-limit.
- NJ* The analyte has been tentatively identified. This qualifier indicates presumptive evidence of a compound. Special methods may 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.
- UR* The analyte was not detected, but the result is unreliable due to serious deficiencies in satisfying quality control criteria.

Table 3-1

List of Samples and Chemical Analyses for Surface Water-March 2016
Frog Mortar Creek
Lockheed Martin, Martin State Airport, Middle River, Maryland

	Analyses Performed ⁽¹⁾ (Method)			
	Volatile organic compounds ⁽²⁾	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



Section 4

Results

4.1 SURFACE WATER DATA AND SCREENING CRITERIA

Validated chemical data from the Frog Mortar Creek surface water samples collected in March 2016 were used to generate a statistical summary table (Table 4-1) and a table summarizing positive detections of chemical analytes (Table 4-2). Samples were analyzed for volatile organic compounds (VOCs) (including fuel-related compounds such as benzene, toluene, ethylbenzene, and xylenes [BTEX]), dissolved (i.e., filtered) metals, hexavalent chromium, and hardness. 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; also known as trichloroethylene), *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, results for these five metals are not directly comparable to BTAG criteria. The NRWQC and BTAG screening values for five dissolved metals (cadmium, copper, lead, nickel, and zinc) were adjusted

using a site-specific hardness value of 310 milligrams per liter (mg/L) (the lowest and most protective site value measured for the March results), using the methodology in the *National Recommended Water Quality Criteria* (USEPA, 2002, 2009) and *Region III Biological Technical Advisory Group Freshwater Screening Benchmarks* (USEPA, 2006).

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; 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 (30 years) exposure to surface water. These swimming criteria are used because they provide the most conservative (i.e., most protective) screening levels for Frog Mortar Creek.

Gray shading in Table 4-2 indicates a result that exceeds one or more of 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 March 2016 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

Several VOCs and metals were detected in the March 2016 surface water samples; results are summarized below and in Tables 4-1 and 4-2. Since most data discussed herein share the “MSA” prefix, this prefix 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 were estimated (i.e., *J*-qualified); the qualifier (flag) is 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 chlorinated VOCs (cVOCs) are TCE, *cis*-1,2-DCE, and VC; these three VOCs are also the primary cVOCs detected in the DRA groundwater plume. In general, VOC concentrations in March 2016 were lower than those detected during the previous sampling event

in December 2015. The highest TCE concentrations were detected at sampling locations SW47A (9.2 micrograms per liter [$\mu\text{g/L}$]), SW38A (6.5 $\mu\text{g/L}$), and SW48A (6.1 $\mu\text{g/L}$). The highest *cis*-1,2-DCE and VC concentrations were detected at SW48A (14 $\mu\text{g/L}$ and 11 $\mu\text{g/L}$, respectively). VOC concentrations in all March 2016 surface water samples were less than human health consumption-of-organism and ecological screening-levels. However, 10 VC concentrations (0.86–11 $\mu\text{g/L}$), predominantly in near-shore samples adjacent to the DRA, exceed the site-specific swimming screening level (0.7 $\mu\text{g/L}$). VC concentrations in all other samples were below this screening level.

The highest TCE concentration detected in March 2016 was 9.2 $\mu\text{g/L}$, a concentration approximately one-third the highest TCE concentrations (24 and 28 $\mu\text{g/L}$) detected in December and March 2015, respectively. Similarly, the highest concentrations of *cis*-1,2-DCE and VC in March 2016 (14 $\mu\text{g/L}$ and 11 $\mu\text{g/L}$, respectively) were lower than December 2015 (23 $\mu\text{g/L}$ and 13 $\mu\text{g/L}$, respectively) and March 2015 (21 $\mu\text{g/L}$ and 18 $\mu\text{g/L}$, respectively) concentrations. TCE exceeded its site-specific swimming criterion (10 $\mu\text{g/L}$) in six samples in December 2015 and in eight samples in March 2015, but all TCE concentrations in March 2016 were below the site-specific swimming criterion.

TCE was detected in 32 of 44 samples, at concentrations ranging from 0.23 $\mu\text{g/L}$ to 9.2 $\mu\text{g/L}$ (Table 4-1 and Figure 4-1). In prior sampling events, surface water samples from transects east of the DRA (SW38, SW40, and SW41) have typically had the highest TCE concentrations. The March 2016 TCE results support this finding, although several moderate concentrations also occurred north at locations SW42C (5.5 $\mu\text{g/L}$), SW42B (3.6 $\mu\text{g/L}$), and SW37B (3.1 $\mu\text{g/L}$).

Historically, TCE concentrations tend to decrease with increased distance from the shoreline, with the highest concentrations usually detected in shoreline (“A”) samples. This trend is evident in the central transects (SW40, SW38, and SW41), where higher-concentration gradients appear to be present. The trend is less evident in transects south of the DRA (SW43-SW45) and one transect north of the DRA (SW37), and is reversed (i.e., slightly increased concentrations with increased sampling distance from shore) in one northern transect (SW42).

Consistent with previous sampling rounds, TCE concentrations in samples collected from the eastern shoreline transect (SW01) were lower than samples from the western shoreline transects.

TCE was not detected in the transect SW01 samples this round. TCE results for the transect SW01 samples in March 2016 were lower than in December 2015 (1.4–1.5 µg/L) and March 2015 (1.1–1.3 µg/L).

cis-1,2-DCE was detected in 29 of 44 samples at concentrations ranging from 0.26 µg/L to 14 µg/L (Table 4-1 and Figure 4-2). *cis*-1,2-DCE was detected in four samples at central and northern transects, but at only one location (SW44B) in southernmost transects (SW44, SW45, and SW39) and in the eastern shoreline transect (SW01). *cis*-1,2-DCE was also detected at newer sampling locations SW46A–SW49A (2.9–14 µg/L). Many of the higher *cis*-1,2-DCE concentrations in March 2016 (3.8–14 µg/L) were collected at near-shore sampling locations adjacent to the former DRA (SW48A, SW47A, SW38A, SW40A, SW46A, and SW49A), although moderate concentrations (i.e., 2.7–3.3 µg/L, concentrations near the average concentration of 2.93 µg/L) were detected at five locations farther offshore (SW38B, SW42C, SW40B, SW42B, and SW37B).

VC was detected less frequently than TCE and *cis*-1,2-DCE during the March 2016 sampling round (in 18 of 44 samples; see Table 4-1), and as compared to previous rounds (43 of 44 samples in December 2015, and 35 of 40 samples in March 2015). VC concentrations in March 2016 range from 0.30 µg/L to 11 µg/L (Table 4-2). VC was detected in five central and northern transects (SW37, SW42, SW40, SW38, and SW41), and at individual sampling locations SW47 through SW49. VC was not detected at SW46A, at the four southernmost transects (SW43, SW44, SW45, and SW39), or at the eastern shoreline (SW01) transect.

The maximum VC concentration detected during this round (11 µg/L at SW38A and SW48A) is similar to (but slightly less than) the maximum recorded in December 2015 (13 µg/L), but is nearly half that of the maximum in March 2015 (18 µg/L). VC concentrations at SW37A (3 µg/L), SW37B (1.2 µg/L), SW38A (11 µg/L), SW40A (5.6 µg/L), SW42A (1.4 µg/L), SW42B (0.96 µg/L), SW42C (0.86 µg/L), SW47A (2.1 µg/L), SW48A (11 µg/L), and SW49A (1.6 µg/L) exceeded the swimming criterion of 0.7 µg/L during this sampling event. VC was not detected at the eastern shoreline transect in March 2016.

Seven additional VOCs (1,4-dichlorobenzene, *o*-xylenes, *m*+*p*-xylenes, total xylenes, acetone, ethylbenzene, and toluene) were detected at concentrations less than ecological screening levels.

Four VOCs were detected in addition to TCE, *cis*-1,2-DCE, and VC during the last round in December 2015, while 10 additional VOCs were detected a year ago in March 2015.

4.2.2 Metals

Concentrations of dissolved barium (18–22 µg/L) at all 36 locations (in which they were analyzed for) exceeded its lowest screening level (4 µg/L). The highest barium concentration was detected 50 feet from shore at SW42B. Barium concentrations in March 2016 are lower than those detected last round in December 2015 (46–56 µg/L) and last year in March 2015 (30–33 µg/L). Barium is ubiquitous in creek samples, and has been detected at varying concentrations in all samples collected in the creek since its first analysis in 2010.

In contrast to most previous sampling rounds, all arsenic concentrations (0.51–1.1 µg/L) detected during this round (March 2016) are less than its lowest screening level (1.4 µg/L). March 2016 arsenic concentrations are also less than the background arsenic concentrations (2.2–3.9 µg/L) collected as part of Lockheed Martin’s larger-scale 2007–2008 Frog Mortar Creek investigation (Tetra Tech, 2009).

4.2.3 Hexavalent Chromium

Hexavalent chromium and total chromium have been detected in DRA groundwater, and were therefore analyzed for in surface water in the Frog Mortar Creek sampling event. Hexavalent chromium was detected in all but one sample in which it was analyzed for in March 2016, at trace concentrations (0.12–0.18 µg/L) 60–90 times below its lowest screening level (11 µg/L). The maximum hexavalent chromium concentration (0.18 µg/L) detected in March 2016 is greater than the maximum detected a year ago in March 2015 (0.085 µg/L), but is comparable to the range of maximum concentrations (0.15–0.16 µg/L) detected in June–August 2015. Hexavalent chromium was not detected in December 2015.

Hexavalent chromium concentrations are within a narrow range (0.12–0.18 µg/L), and are distributed evenly throughout the Frog Mortar Creek sampling area. The highest concentrations were detected at SW38C (0.18 µg/L), SW40B (0.17 µg/L), and SW40C (0.17 µg/L), near the area where VOC concentrations are typically highest in Frog Mortar Creek. Hexavalent chromium concentrations in Frog Mortar Creek may be due partly to DRA groundwater. Historical maximum concentrations of hexavalent chromium in DRA groundwater range between 130–250 µg/L; these

maximums were detected in 2008 but have not been repeated in subsequent sampling. However, concentrations of hexavalent chromium in March 2016 are similar to most of the 2015 groundwater concentrations (0.045–4.45 µg/L), indicating that the contribution from groundwater may be insignificant. Groundwater concentrations at these levels are unlikely to be detectable in surface water when diluted by the creek. Seven of eight groundwater detections in wells adjacent to Frog Mortar Creek range between 0.045–0.492 µg/L, with the maximum concentration (4.45 µg/L) at the eighth well (DMW-3S).

Trivalent chromium is oxidized to hexavalent chromium in the presence of highly oxygenated water, alkaline conditions, or moderate to strong oxidants such as chlorine, sulfides, or naturally occurring manganese oxides or ferrous iron (Water Research Foundation, 2012). Several of these conditions are common local components of the geologic formations and sediments of Chesapeake Bay. As such, the ubiquitous and consistently low concentrations of hexavalent chromium in Frog Mortar Creek might be due to naturally occurring background oxidation.

4.3 UPCOMING 2016 SAMPLING ROUNDS

Lockheed Martin will conduct additional surface water monitoring at the 40 sampling locations consistently sampled since March 2012, and at the four newer near-shore locations (SW46A-SW49A) on the western shore of Frog Mortar Creek that have been sampled since July 2015. Surface water sampling is planned for June, July, August, September, and December of 2016.

Table 4-1

Summary of Analytes Detected in Surface Water Samples-March 2016
Frog Mortar Creek
Lockheed Martin Middle River Complex, Middle River, Maryland

Parameter	March 2016 Frog Mortar Creek Surface Water Samples								
	Frequency of detection		Minimum concentration detected	Maximum concentration detected	Minimum concentration non-detect	Maximum concentration non-detect	Sample with maximum detected concentration	Average of detected results	Average of all results
	Number	Percent							
Volatile organic compounds (µg/L)									
TRICHLOROETHENE	32/44	73	0.23 J	9.2	0.22 U	0.22 U	MSA-SW47A-030716	2.35	1.74
CIS-1,2-DICHLOROETHENE	29/44	66	0.26 J	14	0.26 U	0.26 U	MSA-SW48A-030716	2.93	1.98
VINYL CHLORIDE	18/44	41	0.3 J	11	0.29 U	0.29 U	MSA-SW38A-030716, MSA-SW48A-030716	2.33	1.04
M+P-XYLENES	5/44	11	0.26 J	5.2	0.24 U	0.24 U	MSA-SW47A-030716	1.62	0.290
1,4-DICHLOROBENZENE	4/44	9	0.35 J	0.87 J	0.27 U	0.27 U	MSA-SW48A-030716	0.485	0.167
TOTAL XYLENES	4/44	9	0.54 J	6.2	0.52 U	0.52 U	MSA-SW47A-030716	2.21	0.437
ACETONE	3/44	7	0.99 J	1.4 J	0.94 U	0.94 U	MSA-SW42A-030716	1.23	0.522
TOLUENE	3/44	7	0.28 J	0.43 J	0.23 U	0.23 U	EL-SW01B-030716	0.37	0.132
ETHYLBENZENE	1/44	2	0.49 J	0.49 J	0.25 U	0.25 U	MSA-SW47A-030716	0.49	0.133
O-XYLENE	1/44	2	1	1	0.25 U	0.25 U	MSA-SW47A-030716	1	0.145
Tentatively identified compounds-volatiles (µg/L)									
(1S,2R)-(+)-NOREPHEDRINE	1/1	100	1 NJ	1 NJ	--	--	MSA-SW45A-030716	1	1
Dissolved metals (µg/L)									
ARSENIC	36/36	100	0.51 J	1.1 J	--	--	MSA-SW42B-030716	0.679	0.679
BARIUM	36/36	100	18	22	--	--	MSA-SW42B-030716	19.8	19.8
MOLYBDENUM	36/36	100	0.72 J	1.1 J	--	--	MSA-SW37A-030716	0.894	0.894
COPPER	25/36	69	1.8 J	22	1.5 U	1.9 U	MSA-SW43D-030716	3.09	2.40
NICKEL	22/36	61	0.25 J	1.5 J	0.23 U	0.23 U	MSA-SW41A-030716	0.500	0.351
VANADIUM	12/36	33	0.25 J	0.49 J	0.23 U	0.77 U	MSA-SW37B-030716	0.333	0.223
ANTIMONY	9/36	25	0.16 J	0.22 J	0.16 U	0.16 U	MSA-SW37B-030716	0.178	0.104
BERYLLIUM	5/36	14	0.069 J	1.7	0.053 U	0.98 U	MSA-SW37B-030716	0.417	0.178
LEAD	5/36	14	0.11 J	0.6 J	0.11 U	0.3 U	MSA-SW43D-030716	0.254	0.089
CADMIUM	2/36	6	0.094 J	0.19 J	0.061 U	0.28 U	MSA-SW42B-030716	0.142	0.050
COBALT	1/36	3	1.3	1.3	0.14 U	0.94 U	MSA-SW41A-030716	1.30	0.207
MERCURY	1/36	3	0.21 J	0.21 J	0.09 U	0.09 U	MSA-SW44A-030716	0.210	0.050
THALLIUM	1/36	3	0.082 J	0.082 J	0.074 U	0.2 U	MSA-SW42B-030716	0.082	0.041
TUNGSTEN	1/36	3	0.5 J	0.5 J	0.5 U	0.5 U	MSA-SW37B-030716	0.500	0.257
Miscellaneous parameters (µg/L)									
HEXAVALENT CHROMIUM	34/35	97	0.12 J	0.18 J	0.25 U	0.25 U	MSA-SW38C-030716	0.141	0.141
Miscellaneous parameters (mg/L)									
CALCIUM HARDNESS as CaCO ₃	36/36	100	84	110	--	--	MSA-SW37A-030716	95	95
HARDNESS as CaCO ₃	36/36	100	310	410	--	--	MSA-SW42B-030716, MSA-SW37A-030716	362	362
MAGNESIUM HARDNESS as CaCO ₃	36/36	100	220	310	--	--	MSA-SW37A-030716, MSA-SW42B-030716	266	266

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

One-half the detection limit was used for B-qualified data.

-- not applicable; analyte was detected in all samples

CaCO₃ - calcium carbonate

µg/L - micrograms per liter

EL - Edwards Lane

J - estimated positive result

mg/L - milligrams per liter

MSA - Martin State Airport

NJ - tentatively identified compound

SW - surface water

Table 4-2

Detected Analytes and Screening Level Exceedances in Surface Water Samples-March 2016
Frog Mortar Creek
Lockheed Martin, Martin State Airport, Middle River, Maryland
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Sample location	National recommended water quality criteria ⁽¹⁾		Ecological surface water screening level ⁽²⁾	Human health consumption of organism only ⁽¹⁾⁽³⁾	Swimming screening levels ⁽⁴⁾	EL-SW01A	EL-SW01B	EL-SW01C	EL-SW01D	SW37A	SW37B	SW37C	SW37D	
Sample Date	Freshwater					20160307	20160307	20160307	20160307	20160307	20160307	20160307	20160307	20160307
Matrix	Acute	Chronic				SW	SW	SW	SW	SW	SW	SW	SW	SW
Volatile organic compounds (µg/L)														
1,4-DICHLOROBENZENE	NA	NA	26	190	NA	--	--	--	--	--	--	--	--	
ACETONE	NA	NA	1500	NA	NA	--	--	--	--	--	--	--	--	
CIS-1,2-DICHLOROETHENE	NA	NA	590 ⁽⁵⁾	NA	300	--	--	--	--	2.9	2.7	1.1	0.73 J	
ETHYLBENZENE	NA	NA	90	2100	NA	--	--	--	--	--	--	--	--	
M+P-XYLENES	NA	NA	NA	NA	NA	--	0.26 J	--	--	--	--	--	--	
O-XYLENE	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	
TOLUENE	NA	NA	2	15000	NA	--	0.43 J	--	--	--	--	--	--	
TOTAL XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--	
TRICHLOROETHENE	NA	NA	21	300 ⁽³⁾	10	--	--	--	--	0.99 J	3.1	1.4	1	
VINYL CHLORIDE	NA	NA	930	24 ⁽³⁾	0.7	--	--	--	--	3	1.2	0.45 J	0.3 J	
Tentatively identified compounds-volatiles (µg/L)														
(1S,2R)-(+)-NOREPHEDRINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved metals (µg/L)														
ANTIMONY	NA	NA	30	640	NA	NA	NA	NA	NA	0.2 J	0.22 J	0.16 J	0.16 J	
ARSENIC	340	150	NA ⁽⁶⁾	1.4 ⁽³⁾	NA	NA	NA	NA	NA	0.94 J	0.9 J	0.72 J	0.7 J	
BARIUM	NA	NA	4	NA	NA	NA	NA	NA	NA	21	20	21	21	
BERYLLIUM	NA	NA	0.66	NA	NA	NA	NA	NA	NA	--	1.7	--	--	
CADMIUM	5.76 ⁽⁷⁾	0.54 ⁽⁷⁾	0.54 ⁽⁷⁾	NA	NA	NA	NA	NA	NA	--	--	--	--	
COBALT	NA	NA	23	NA	NA	NA	NA	NA	NA	--	--	--	--	
COPPER	39 ⁽⁷⁾	23.5 ⁽⁷⁾	23.5 ⁽⁷⁾	NA	NA	NA	NA	NA	NA	2.3	2.6	2.7	2	
LEAD	215 ⁽⁷⁾	8.4 ⁽⁷⁾	8.4 ⁽⁷⁾	NA	NA	NA	NA	NA	NA	--	--	--	--	
MERCURY	1.4	0.77	NA ⁽⁶⁾	NA	NA	NA	NA	NA	NA	--	--	--	--	
MOLYBDENUM	NA	NA	NA ⁽⁶⁾	NA	NA	NA	NA	NA	NA	1.1 J	0.99 J	0.94 J	0.97 J	
NICKEL	1219 ⁽⁷⁾	135 ⁽⁷⁾	135 ⁽⁷⁾	4600	NA	NA	NA	NA	NA	0.88 J	0.7 J	0.53 J	0.25 J	
THALLIUM	NA	NA	NA ⁽⁶⁾	0.47	NA	NA	NA	NA	NA	--	--	--	--	
TUNGSTEN	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	0.5 J	--	--	
VANADIUM	NA	NA	20	NA	NA	NA	NA	NA	NA	0.43 J	0.49 J	0.32 J	0.38 J	
Miscellaneous parameters (mg/L)														
CALCIUM HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	NA	NA	NA	NA	110	98	97	100	
HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	NA	NA	NA	NA	410	380	370	380	
MAGNESIUM HARDNESS AS CaCO ₃	NA	NA	NA	NA	NA	NA	NA	NA	NA	310	280	270	280	
Miscellaneous parameters (µg/L)														
HEXAVALENT CHROMIUM	16	11	11	NA	NA	NA	NA	NA	NA	0.12 J	NA	0.12 J	0.12 J	

Table 4-2

Detected Analytes and Screening Level Exceedances in Surface Water Samples-March 2016

Frog Mortar Creek

Lockheed Martin, Martin State Airport, Middle River, Maryland

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Sample location	National recommended water quality criteria ⁽¹⁾		Ecological surface water screening level ⁽²⁾	Human health consumption of organism only ⁽¹⁾⁽³⁾	Swimming screening levels ⁽⁴⁾	SW38A	SW38B	SW38C	SW38D	SW39A	SW39B	SW39C	SW39D	
Sample Date	Freshwater					20160307	20160307	20160307	20160307	20160307	20160307	20160307	20160307	20160307
Matrix	Acute	Chronic				SW	SW	SW	SW	SW	SW	SW	SW	SW
Volatile organic compounds (µg/L)														
1,4-DICHLOROBENZENE	NA	NA	26	190	NA	0.35 J	--	--	--	--	--	--	--	
ACETONE	NA	NA	1500	NA	NA	--	--	--	--	--	--	--	--	
CIS-1,2-DICHLOROETHENE	NA	NA	590 ⁽⁵⁾	NA	300	9.5	3.3	1.2	0.3 J	--	--	--	--	
ETHYLBENZENE	NA	NA	90	2100	NA	--	--	--	--	--	--	--	--	
M+P-XYLENES	NA	NA	NA	NA	NA	0.54 J	--	--	--	--	--	--	--	
O-XYLENE	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	
TOLUENE	NA	NA	2	15000	NA	--	--	--	--	--	--	--	--	
TOTAL XYLENES	NA	NA	13	NA	NA	0.54 J	--	--	--	--	--	--	--	
TRICHLOROETHENE	NA	NA	21	300 ⁽³⁾	10	6.5	4	2.1	0.42 J	--	--	0.23 J	--	
VINYL CHLORIDE	NA	NA	930	24 ⁽³⁾	0.7	11	0.56	0.32 J	--	--	--	--	--	
Tentatively identified compounds-volatiles (µg/L)														
(1S,2R)-(+)-NOREPHEDRINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved metals (µg/L)														
ANTIMONY	NA	NA	30	640	NA	0.16 J	0.17 J	--	--	--	--	--	--	
ARSENIC	340	150	NA ⁽⁶⁾	1.4 ⁽³⁾	NA	0.64 J	0.59 J	0.7 J	0.77 J	0.51 J	0.58 J	0.52 J	0.63 J	
BARIUM	NA	NA	4	NA	NA	21	20	20	20	19	19	18	19	
BERYLLIUM	NA	NA	0.66	NA	NA	--	--	--	--	--	--	--	--	
CADMIUM	5.76 ⁽⁷⁾	0.54 ⁽⁷⁾	0.54 ⁽⁷⁾	NA	NA	--	--	--	--	--	--	--	--	
COBALT	NA	NA	23	NA	NA	--	--	--	--	--	--	--	--	
COPPER	39 ⁽⁷⁾	23.5 ⁽⁷⁾	23.5 ⁽⁷⁾	NA	NA	2.5	2.1	1.8 J	1.8 J	2	1.8 J	2	2.1	
LEAD	215 ⁽⁷⁾	8.4 ⁽⁷⁾	8.4 ⁽⁷⁾	NA	NA	--	--	--	--	--	--	--	--	
MERCURY	1.4	0.77	NA ⁽⁶⁾	NA	NA	--	--	--	--	--	--	--	--	
MOLYBDENUM	NA	NA	NA ⁽⁶⁾	NA	NA	0.93 J	0.96 J	0.98 J	0.89 J	0.86 J	0.86 J	0.84 J	0.84 J	
NICKEL	1219 ⁽⁷⁾	135 ⁽⁷⁾	135 ⁽⁷⁾	4600	NA	0.69 J	0.25 J	--	--	0.34 J	0.32 J	0.29 J	--	
THALLIUM	NA	NA	NA ⁽⁶⁾	0.47	NA	--	--	--	--	--	--	--	--	
TUNGSTEN	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	
VANADIUM	NA	NA	20	NA	NA	--	0.27 J	0.25 J	0.37 J	--	0.26 J	--	--	
Miscellaneous parameters (mg/L)														
CALCIUM HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	99	98	100	98	91	92	88	93	
HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	380	370	390	380	330	340	320	350	
MAGNESIUM HARDNESS AS CaCO ₃	NA	NA	NA	NA	NA	280	270	290	290	240	250	230	250	
Miscellaneous parameters (µg/L)														
HEXAVALENT CHROMIUM	16	11	11	NA	NA	0.13 J	0.14 J	0.18 J	0.13 J	0.16 J	0.14 J	0.16 J	0.15 J	

Table 4-2

Detected Analytes and Screening Level Exceedances in Surface Water Samples-March 2016
Frog Mortar Creek
Lockheed Martin, Martin State Airport, Middle River, Maryland
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Sample location	National recommended water quality criteria ⁽¹⁾		Ecological surface water screening level ⁽²⁾	Human health consumption of organism only ⁽¹⁾⁽³⁾	Swimming screening levels ⁽⁴⁾	SW40A	SW40B	SW40C	SW40D	SW41A	SW41B	SW41C	SW41D	
Sample Date	Freshwater					20160307	20160307	20160307	20160307	20160307	20160307	20160307	20160307	20160307
Matrix	Acute	Chronic				SW	SW	SW	SW	SW	SW	SW	SW	SW
Volatile organic compounds (µg/L)														
1,4-DICHLOROBENZENE	NA	NA	26	190	NA	0.35 J	--	--	--	--	--	--	--	
ACETONE	NA	NA	1500	NA	NA	--	--	--	--	--	--	--	--	
CIS-1,2-DICHLOROETHENE	NA	NA	590 ⁽⁵⁾	NA	300	8.7	2.8	1.5	0.59 J	5.9	1.2	0.72 J	0.36 J	
ETHYLBENZENE	NA	NA	90	2100	NA	--	--	--	--	--	--	--	--	
M+P-XYLENES	NA	NA	NA	NA	NA	0.89 J	--	--	--	--	--	--	--	
O-XYLENE	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	
TOLUENE	NA	NA	2	15000	NA	--	--	--	--	--	--	--	--	
TOTAL XYLENES	NA	NA	13	NA	NA	0.89 J	--	--	--	--	--	--	--	
TRICHLOROETHENE	NA	NA	21	300 ⁽³⁾	10	5.2	3.4	2.8	1.1	4.1	1.9	1.2	0.52 J	
VINYL CHLORIDE	NA	NA	930	24 ⁽³⁾	0.7	5.6	0.56	0.38 J	--	0.38 J	--	--	--	
Tentatively identified compounds-volatiles (µg/L)														
(1S,2R)-(+)-NOREPHEDRINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved metals (µg/L)														
ANTIMONY	NA	NA	30	640	NA	--	--	--	--	--	--	--	--	
ARSENIC	340	150	NA ⁽⁶⁾	1.4 ⁽³⁾	NA	0.65 J	0.61 J	0.69 J	0.62 J	0.54 J	0.63 J	0.61 J	0.61 J	
BARIUM	NA	NA	4	NA	NA	20	20	21	20	19	21	20	20	
BERYLLIUM	NA	NA	0.66	NA	NA	--	--	--	--	--	--	--	--	
CADMIUM	5.76 ⁽⁷⁾	0.54 ⁽⁷⁾	0.54 ⁽⁷⁾	NA	NA	--	--	--	--	--	--	--	--	
COBALT	NA	NA	23	NA	NA	--	--	--	--	1.3	--	--	--	
COPPER	39 ⁽⁷⁾	23.5 ⁽⁷⁾	23.5 ⁽⁷⁾	NA	NA	2.1	2.6	2.9	2.3	2.8	2.7	2.7	2.7	
LEAD	215 ⁽⁷⁾	8.4 ⁽⁷⁾	8.4 ⁽⁷⁾	NA	NA	--	--	--	--	--	--	--	--	
MERCURY	1.4	0.77	NA ⁽⁶⁾	NA	NA	--	--	--	--	--	--	--	--	
MOLYBDENUM	NA	NA	NA ⁽⁶⁾	NA	NA	0.93 J	0.92 J	1 J	0.88 J	0.85 J	0.97 J	0.92 J	0.9 J	
NICKEL	1219 ⁽⁷⁾	135 ⁽⁷⁾	135 ⁽⁷⁾	4600	NA	0.47 J	0.39 J	0.35 J	0.41 J	1.5 J	0.39 J	0.35 J	0.34 J	
THALLIUM	NA	NA	NA ⁽⁶⁾	0.47	NA	--	--	--	--	--	--	--	--	
TUNGSTEN	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	
VANADIUM	NA	NA	20	NA	NA	0.32 J	--	0.32 J	0.28 J	--	--	--	0.3 J	
Miscellaneous parameters (mg/L)														
CALCIUM HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	99	98	100	98	92	100	96	97	
HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	380	380	400	380	340	380	370	370	
MAGNESIUM HARDNESS AS CaCO ₃	NA	NA	NA	NA	NA	280	280	290	280	250	280	270	270	
Miscellaneous parameters (µg/L)														
HEXAVALENT CHROMIUM	16	11	11	NA	NA	0.14 J	0.17 J	0.17 J	0.12 J	0.12 J	0.15 J	0.14 J	0.14 J	

Table 4-2

Detected Analytes and Screening Level Exceedances in Surface Water Samples-March 2016

Frog Mortar Creek

Lockheed Martin, Martin State Airport, Middle River, Maryland

Page 4 of 7

Sample location	National recommended water quality criteria ⁽¹⁾		Ecological surface water screening level ⁽²⁾	Human health consumption of organism only ⁽¹⁾⁽³⁾	Swimming screening levels ⁽⁴⁾	SW42A	SW42B	SW42C	SW42D	SW43A	SW43B	SW43C	SW43D	
Sample Date	Freshwater					20160307	20160307	20160307	20160307	20160307	20160307	20160307	20160307	20160307
Matrix	Acute	Chronic				SW	SW	SW	SW	SW	SW	SW	SW	SW
Volatile organic compounds (µg/L)														
1,4-DICHLOROBENZENE	NA	NA	26	190	NA	--	--	--	--	--	--	--	--	
ACETONE	NA	NA	1500	NA	NA	1.4 J	--	--	--	1.3 J	--	--	--	
CIS-1,2-DICHLOROETHENE	NA	NA	590 ⁽⁵⁾	NA	300	1.9	2.8	2.9	1	0.46 J	0.26 J	0.89 J	0.33 J	
ETHYLBENZENE	NA	NA	90	2100	NA	--	--	--	--	--	--	--	--	
M+P-XYLENES	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	
O-XYLENE	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	
TOLUENE	NA	NA	2	15000	NA	--	--	--	--	--	0.28 J	--	--	
TOTAL XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--	
TRICHLOROETHENE	NA	NA	21	300 ⁽³⁾	10	1.1	3.6	5.5	1.6	0.46 J	0.34 J	1.3	0.49 J	
VINYL CHLORIDE	NA	NA	930	24 ⁽³⁾	0.7	1.4	0.96	0.86	0.34 J	--	--	--	--	
Tentatively identified compounds-volatiles (µg/L)														
(1S,2R)-(+)-NOREPHEDRINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved metals (µg/L)														
ANTIMONY	NA	NA	30	640	NA	--	0.18 J	--	--	--	0.18 J	0.17 J	--	
ARSENIC	340	150	NA ⁽⁶⁾	1.4 ⁽³⁾	NA	0.84 J	1.1 J	0.74 J	0.81 J	0.64 J	0.72 J	0.68 J	0.69 J	
BARIUM	NA	NA	4	NA	NA	20	22	20	20	19	20	19	19	
BERYLLIUM	NA	NA	0.66	NA	NA	0.077 J	0.17 J	0.071 J	--	0.069 J	--	--	--	
CADMIUM	5.76 ⁽⁷⁾	0.54 ⁽⁷⁾	0.54 ⁽⁷⁾	NA	NA	--	0.19 J	0.094 J	--	--	--	--	--	
COBALT	NA	NA	23	NA	NA	--	--	--	--	--	--	--	--	
COPPER	39 ⁽⁷⁾	23.5 ⁽⁷⁾	23.5 ⁽⁷⁾	NA	NA	2.2	--	--	--	2	2.2	--	22	
LEAD	215 ⁽⁷⁾	8.4 ⁽⁷⁾	8.4 ⁽⁷⁾	NA	NA	0.15 J	0.22 J	--	--	--	--	0.11 J	0.6 J	
MERCURY	1.4	0.77	NA ⁽⁶⁾	NA	NA	--	--	--	--	--	--	--	--	
MOLYBDENUM	NA	NA	NA ⁽⁶⁾	NA	NA	0.99 J	1 J	0.96 J	0.97 J	0.8 J	0.87 J	0.79 J	0.83 J	
NICKEL	1219 ⁽⁷⁾	135 ⁽⁷⁾	135 ⁽⁷⁾	4600	NA	--	--	--	--	1.4 J	0.28 J	--	--	
THALLIUM	NA	NA	NA ⁽⁶⁾	0.47	NA	--	0.082 J	--	--	--	--	--	--	
TUNGSTEN	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	
VANADIUM	NA	NA	20	NA	NA	--	--	--	--	--	--	--	--	
Miscellaneous parameters (mg/L)														
CALCIUM HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	98	100	98	98	90	95	90	91	
HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	390	410	390	390	330	360	350	350	
MAGNESIUM HARDNESS AS CaCO ₃	NA	NA	NA	NA	NA	300	310	290	290	240	260	260	260	
Miscellaneous parameters (µg/L)														
HEXAVALENT CHROMIUM	16	11	11	NA	NA	0.14 J	0.15 J	0.13 J	0.14 J	0.15 J	0.13 J	0.13 J	0.16 J	

Table 4-2

Detected Analytes and Screening Level Exceedances in Surface Water Samples-March 2016

Frog Mortar Creek

Lockheed Martin, Martin State Airport, Middle River, Maryland

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Sample location	National recommended water quality criteria ⁽¹⁾		Ecological surface water screening level ⁽²⁾	Human health consumption of organism only ⁽¹⁾⁽³⁾	Swimming screening levels ⁽⁴⁾	SW44A	SW44B	SW44C	SW44D	SW45A	SW45B	SW45C	SW45D
Sample Date	Freshwater					20160307	20160307	20160307	20160307	20160307	20160307	20160307	20160307
Matrix	Acute	Chronic				SW	SW	SW	SW	SW	SW	SW	SW
Volatile organic compounds (µg/L)													
1,4-DICHLOROBENZENE	NA	NA	26	190	NA	--	--	--	--	--	--	--	--
ACETONE	NA	NA	1500	NA	NA	--	--	0.99 J	--	--	--	--	--
CIS-1,2-DICHLOROETHENE	NA	NA	590 ⁽⁵⁾	NA	300	--	0.27 J	--	--	--	--	--	--
ETHYLBENZENE	NA	NA	90	2100	NA	--	--	--	--	--	--	--	--
M+P-XYLENES	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--
O-XYLENE	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--
TOLUENE	NA	NA	2	15000	NA	--	--	--	--	--	--	--	--
TOTAL XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--
TRICHLOROETHENE	NA	NA	21	300 ⁽³⁾	10	--	0.38 J	--	--	--	--	0.25 J	0.27 J
VINYL CHLORIDE	NA	NA	930	24 ⁽³⁾	0.7	--	--	--	--	--	--	--	--
Tentatively identified compounds-volatiles (µg/L)													
(1S,2R)-(+)-NOREPHEDRINE	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 NJ	NA	NA	NA
Dissolved metals (µg/L)													
ANTIMONY	NA	NA	30	640	NA	--	--	--	--	--	--	--	--
ARSENIC	340	150	NA ⁽⁶⁾	1.4 ⁽³⁾	NA	0.61 J	0.71 J	0.68 J	0.65 J	0.57 J	0.62 J	0.64 J	0.58 J
BARIUM	NA	NA	4	NA	NA	18	20	19	19	19	20	19	19
BERYLLIUM	NA	NA	0.66	NA	NA	--	--	--	--	--	--	--	--
CADMIUM	5.76 ⁽⁷⁾	0.54 ⁽⁷⁾	0.54 ⁽⁷⁾	NA	NA	--	--	--	--	--	--	--	--
COBALT	NA	NA	23	NA	NA	--	--	--	--	--	--	--	--
COPPER	39 ⁽⁷⁾	23.5 ⁽⁷⁾	23.5 ⁽⁷⁾	NA	NA	--	--	--	--	--	--	2.3	--
LEAD	215 ⁽⁷⁾	8.4 ⁽⁷⁾	8.4 ⁽⁷⁾	NA	NA	--	--	--	--	--	--	0.19 J	--
MERCURY	1.4	0.77	NA ⁽⁶⁾	NA	NA	0.21 J	--	--	--	--	--	--	--
MOLYBDENUM	NA	NA	NA ⁽⁶⁾	NA	NA	0.78 J	0.89 J	0.78 J	0.86 J	0.75 J	0.83 J	0.72 J	0.85 J
NICKEL	1219 ⁽⁷⁾	135 ⁽⁷⁾	135 ⁽⁷⁾	4600	NA	0.26 J	--	--	--	0.31 J	--	0.31 J	--
THALLIUM	NA	NA	NA ⁽⁶⁾	0.47	NA	--	--	--	--	--	--	--	--
TUNGSTEN	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--
VANADIUM	NA	NA	20	NA	NA	--	--	--	--	--	--	--	--
Miscellaneous parameters (mg/L)													
CALCIUM HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	85	94	90	89	86	92	84	91
HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	310	350	340	340	320	340	310	340
MAGNESIUM HARDNESS AS CaCO ₃	NA	NA	NA	NA	NA	230	260	250	250	230	250	220	250
Miscellaneous parameters (µg/L)													
HEXAVALENT CHROMIUM	16	11	11	NA	NA	--	0.14 J	0.16 J	0.16 J	0.15 J	0.12 J	0.12 J	0.13 J

Table 4-2

Detected Analytes and Screening Level Exceedances in Surface Water Samples-March 2016
Frog Mortar Creek
Lockheed Martin, Martin State Airport, Middle River, Maryland
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Sample location	National recommended water quality criteria ⁽¹⁾		Ecological surface water screening level ⁽²⁾	Human health consumption of organism only ⁽¹⁾⁽³⁾	Swimming screening levels ⁽⁴⁾	SW46A	SW47A	SW48A	SW49A
Sample Date	Freshwater					20160307	20160307	20160307	20160307
Matrix	Acute	Chronic				SW	SW	SW	SW
Volatile organic compounds (µg/L)									
1,4-DICHLOROBENZENE	NA	NA	26	190	NA	--	0.37 J	0.87 J	--
ACETONE	NA	NA	1500	NA	NA	--	--	--	--
CIS-1,2-DICHLOROETHENE	NA	NA	590 ⁽⁵⁾	NA	300	3.8	10	14	2.9
ETHYLBENZENE	NA	NA	90	2100	NA	--	0.49 J	--	--
M+P-XYLENES	NA	NA	NA	NA	NA	--	5.2	1.2 J	--
O-XYLENE	NA	NA	NA	NA	NA	--	1	--	--
TOLUENE	NA	NA	2	15000	NA	--	0.4 J	--	--
TOTAL XYLENES	NA	NA	13	NA	NA	--	6.2	1.2 J	--
TRICHLOROETHENE	NA	NA	21	300 ⁽³⁾	10	2.6	9.2	6.1	1.9
VINYL CHLORIDE	NA	NA	930	24 ⁽³⁾	0.7	--	2.1	11	1.6
Tentatively identified compounds-volatiles (µg/L)									
(1S,2R)-(+)-NOREPHEDRINE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved metals (µg/L)									
ANTIMONY	NA	NA	30	640	NA	NA	NA	NA	NA
ARSENIC	340	150	NA ⁽⁶⁾	1.4 ⁽³⁾	NA	NA	NA	NA	NA
BARIUM	NA	NA	4	NA	NA	NA	NA	NA	NA
BERYLLIUM	NA	NA	0.66	NA	NA	NA	NA	NA	NA
CADMIUM	5.76 ⁽⁷⁾	0.54 ⁽⁷⁾	0.54 ⁽⁷⁾	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	23	NA	NA	NA	NA	NA	NA
COPPER	39 ⁽⁷⁾	23.5 ⁽⁷⁾	23.5 ⁽⁷⁾	NA	NA	NA	NA	NA	NA
LEAD	215 ⁽⁷⁾	8.4 ⁽⁷⁾	8.4 ⁽⁷⁾	NA	NA	NA	NA	NA	NA
MERCURY	1.4	0.77	NA ⁽⁶⁾	NA	NA	NA	NA	NA	NA
MOLYBDENUM	NA	NA	NA ⁽⁶⁾	NA	NA	NA	NA	NA	NA
NICKEL	1219 ⁽⁷⁾	135 ⁽⁷⁾	135 ⁽⁷⁾	4600	NA	NA	NA	NA	NA
THALLIUM	NA	NA	NA ⁽⁶⁾	0.47	NA	NA	NA	NA	NA
TUNGSTEN	NA	NA	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NA	NA	20	NA	NA	NA	NA	NA	NA
Miscellaneous parameters (mg/L)									
CALCIUM HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	NA	NA	NA	NA
HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	NA	NA	NA	NA
MAGNESIUM HARDNESS AS CaCO ₃	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous parameters (µg/L)									
HEXAVALENT CHROMIUM	16	11	11	NA	NA	NA	NA	NA	NA

Table 4-2

Detected Analytes and Screening Level Exceedances in Surface Water Samples-March 2016
Frog Mortar Creek
Lockheed Martin, Martin State Airport, Middle River, Maryland
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- 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 1×10^{-5}
- 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, 2006, and 2009), the option to use site-specific hardness (310 mg/L) was selected to adjust this criterion instead of the standard hardness
concentration of 100 mg/L. The minimum total hardness (310 mg/L) for the March sampling was used to adjust the criteria.

Gray shading indicates a result that exceeds a screening criterion.

-- not detected

BTAG - Biological Technical Advisory Group

CaCO₃ - calcium carbonate

COMAR - Code of Maryland Regulations

EL - Edwards Lane

J - estimated result

µg/L - micrograms per liter

mg/L - milligrams per liter

MSA - Martin State Airport

NA - not analyzed or not available

SW - surface water





FIGURE 4-2
CONCENTRATIONS OF
CIS-1,2-DICHLOROETHENE IN SURFACE
WATER SAMPLES, MARCH 2016
FROG MORTAR CREEK

LEGEND

- SURFACE WATER SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- ⊗ ABANDONED WELL
- OUTLINE OF FORMER COVE
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- EXTENT OF UNSATURATED CONTAMINATED SOIL AND LANDFILL MATERIAL - DUMP ROAD AREA
- POND

(0.27) = CIS-1,2-DICHLOROETHENE CONCENTRATION
J = ESTIMATED VALUE
-- = NOT DETECTED
CONCENTRATION IN MICROGRAMS PER LITER (UG/L)

SCREENING LEVELS FOR CIS-1,2-DICHLOROETHENE
ECOLOGICAL SURFACE WATER: 590 UG/L
HUMAN HEALTH
(CONSUMPTION OF ORGANISM): NONE
SITE SPECIFIC SWIMMING: 300 UG/L

SAMPLES COLLECTED MARCH 7, 2016.
AERIAL PHOTOGRAPH PROVIDED BY
U.S. GEOLOGICAL SURVEY.

Lockheed Martin, Martin State Airport
Middle River, Maryland

0 150 300 Feet

DATE MODIFIED: 04/14/16 CREATED BY: JEE

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Section 5

Summary

Lockheed Martin Corporation's (Lockheed Martin's) March 2016 Frog Mortar Creek surface water investigation results are summarized below:

- Forty-four surface water samples were collected from Frog Mortar Creek on March 7, 2016 and chemically analyzed to assess concentrations of chemical constituents previously detected in Frog Mortar Creek, and to assess creek surface-water quality near the Dump Road Area (DRA). Four additional near-shore samples (SW46A–SW49A) were collected between transects along the Dump Road Area to assess possible localized seepage of contaminated groundwater to surface water. Each sample was collected at approximately one foot below the water surface.
- Four samples were collected along each of nine transects spaced approximately 350 feet apart 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). Four additional samples were collected between adjacent transects SW42–SW40 (SW46A), SW40–SW38 (SW47A), SW38–SW41 (SW48A), and SW41–SW43 (SW49A).
- Frog Mortar Creek samples along the western shoreline were analyzed for volatile organic compounds (VOCs), filtered metals, hexavalent chromium, and hardness. Samples SW46A–SW49A, and samples collected along the eastern shoreline, were analyzed for volatile organic compounds only.
- The data were validated in accordance with the *United States Environmental Protection Agency (USEPA) Region III Modifications to the National Functional Guidelines for Data Review* (USEPA, 1993 and 1994) and the specific requirements of the analytical methods used. Sampling results were screened against United States Environmental Protection Agency Region 3 Biological Technical Advisory Group (BTAG) ecological 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; also known as trichloroethylene), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC).

- Volatile organic compounds (primarily trichloroethene, *cis*-1,2-dichloroethene, and vinyl chloride) and metals were detected in the March 2016 surface water samples.
- Volatile organic compound concentrations from the March 2016 surface water samples were lower than those detected during the last sampling round in December 2015, and lower than those detected a year ago in March 2015. The highest TCE concentrations were detected at sampling locations SW47A (9.2 micrograms per liter [$\mu\text{g/L}$]), SW38A (6.5 $\mu\text{g/L}$), and SW48A (6.1 $\mu\text{g/L}$). The highest *cis*-1,2-dichloroethene and vinyl chloride concentrations were detected at SW48A (14 $\mu\text{g/L}$ and 11 $\mu\text{g/L}$, respectively); VC at 11 $\mu\text{g/L}$ was also detected at SW48A. Volatile organic compound concentrations in all March 2016 surface water samples were less than human health consumption-of-organism and ecological screening-levels.
- Ten vinyl chloride concentrations (0.86–11 $\mu\text{g/L}$), predominantly in near-shore samples (SW37A, SW37B, SW42A, SW42B, SW42C, SW40A, SW47A, SW38A, SW48A, and SW49A), exceeded the site-specific swimming criterion (0.7 $\mu\text{g/L}$). All other detected VOC concentrations were below their respective screening criteria.
- Trichloroethene, *cis*-1,2-dichloroethene, and vinyl chloride were not detected in the eastern-shoreline samples (SW01).
- The maximum trichloroethene concentration detected in March 2016 (9.2 $\mu\text{g/L}$) was approximately one-third the maximum trichloroethene concentrations (24 and 28 $\mu\text{g/L}$) detected in December and March 2015, respectively.
- The maximum concentrations of *cis*-1,2-DCE and VC in March 2016 (14 $\mu\text{g/L}$ and 11 $\mu\text{g/L}$, respectively) were lower than December 2015 (23 $\mu\text{g/L}$ and 13 $\mu\text{g/L}$, respectively) and March 2015 (21 $\mu\text{g/L}$ and 18 $\mu\text{g/L}$, respectively) concentrations.
- Dissolved barium exceeded its screening level in all (36 of 36) samples. Barium is ubiquitous in creek samples, and March 2016 concentrations (18–22 $\mu\text{g/L}$) are lower than those detected in December 2015 (46–56 $\mu\text{g/L}$) and March 2015 (30–33 $\mu\text{g/L}$).
- In contrast to most previous sampling rounds, all arsenic concentrations (0.51–1.1 $\mu\text{g/L}$) were less than the lowest screening level (1.4 $\mu\text{g/L}$), and were less than the background arsenic concentrations (2.2–3.9 $\mu\text{g/L}$) collected as part of Lockheed Martin's larger-scale 2007–2008 Frog Mortar Creek investigation.
- Dissolved hexavalent chromium was detected in all but one sample at concentrations ranging from 0.12 $\mu\text{g/L}$ to 0.18 $\mu\text{g/L}$. These concentrations are well below its lowest screening criterion (11 $\mu\text{g/L}$).
- The maximum hexavalent chromium concentration in March 2016 (0.18 $\mu\text{g/L}$) is greater than the maximum detected a year ago in March 2015 (0.085 $\mu\text{g/L}$), but is comparable to

the range of maximum concentrations (0.15–0.16 µg/L) detected in June–August 2015. Hexavalent chromium was not detected in the previous round (December 2015).

- Hexavalent chromium was distributed evenly throughout the Frog Mortar Creek sampling area, with three of its maximum concentrations located near the central portion of the Dump Road Area where concentrations of volatile organic compounds in Frog Mortar Creek have been highest (SW38B, SW40B, and SW40C). Hexavalent chromium in Frog Mortar Creek may be due, in part, to Dump Road Area groundwater. However, March 2016 surface water concentrations (0.12 µg/L to 0.18 µg/L) are similar to or lower than most groundwater concentrations (0.045–4.45 µg/L) detected in Dump Road Area wells adjacent to Frog Mortar Creek, so the groundwater contribution of hexavalent chromium to the creek may be insignificant. Hexavalent chromium in Frog Mortar Creek surface water may also be occurring naturally via oxidation.
- Lockheed Martin will conduct additional surface water monitoring for the 44 Frog Mortar Creek sampling locations in June, July, August, September, and December 2016.

Section 6

References

1. *Code of Maryland Regulations (COMAR)*, 2016. “Numerical Criteria for Toxic Substances in Surface Waters.” COMAR Title 26, Subtitle 08, Chapter 02, Regulation 03.
<http://www.dsd.state.md.us/comar/comarhtml/26/26.08.02.03-2.htm>.
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APPENDIX A—SURFACE WATER SAMPLE LOG SHEETS

Project Site Name:	Frog Mortar Creek, Martin State Airport	Sample ID No.:	EL-SW01A -030716
Project Number - Task:	112IC07804-09	Sample Location:	FMC SW
		Sampled By:	S. Cameron
☐ Stream		C.O.C. No.:	
☐ Spring			
☐ Pond		Type of Sample:	
☐ Lake		☒ Low Concentration	
☒ Other:	Tidal creek - estuarine	☐ High Concentration	
☐ QA Sample Type:			

SAMPLING DATA:

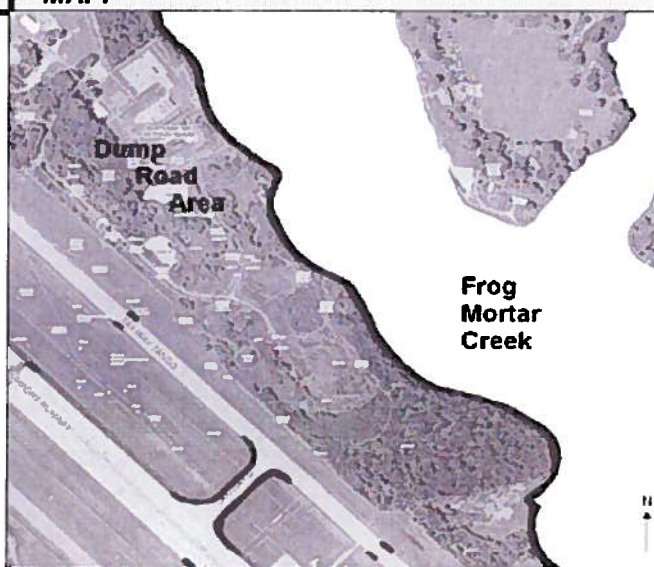
Date:	3/7/2016	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (‰)	ORP
Time:	956								
Depth:	1 foot								
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

[illegible]**OBSERVATIONS / NOTES:**

GPS Coordinates:

MAP:

**Circle if Applicable:**

MS/MSD

Duplicate ID No.:

Signature(s):

Project Site Name:	Frog Mortar Creek, Martin State Airport
Project Number - Task:	112IC07804-09

Sample ID No.:	EL-SW01B -030716
Sample Location:	FMC SW
Sampled By:	S. Cameron
C.O.C. No.:	

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

[x] Other: Tidal creek - estuarine

[] QA Sample Type: _____

Type of Sample:
☒ Low Concentration
☐ High Concentration

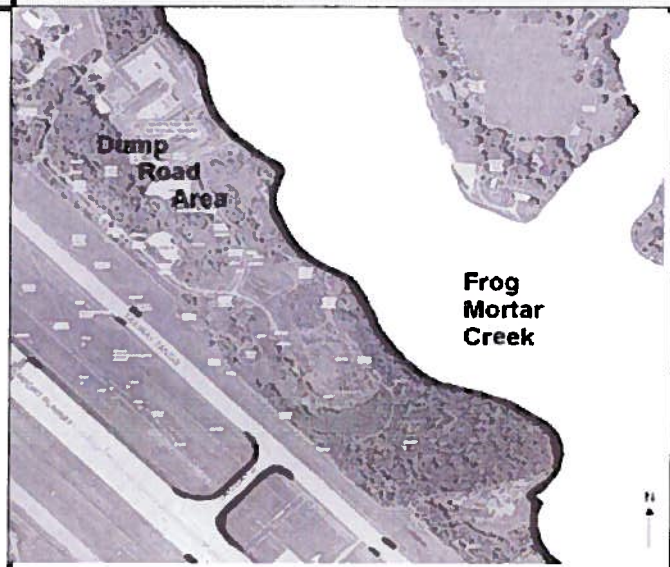
SAMPLING DATA:

Date:	3/7/2016	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (‰)	ORP
Time:	1006								
Depth:	1 foot	#N/A	7.38	3.62	8.02	6.87	12.08	1.9	158
Method:	Grab								

SAMPLE COLLECTION INFORMATION:[illegible]**OBSERVATIONS / NOTES:**

GPS Coordinates:

MAP:

**Circle if Applicable:**

MS/MSD

Duplicate ID No.:

Signature(s):

Project Site Name:	Frog Mortar Creek, Martin State Airport	Sample ID No.:	EL-SW01C -030716
Project Number - Task:	112IC07804-09	Sample Location:	FMC SW
☐ Stream		Sampled By:	S. Cameron
☐ Spring		C.O.C. No.:	
☐ Pond		Type of Sample:	
☐ Lake		☒ Low Concentration	
☒ Other:	Tidal creek - estuarine	☐ High Concentration	
☐ QA Sample Type:			

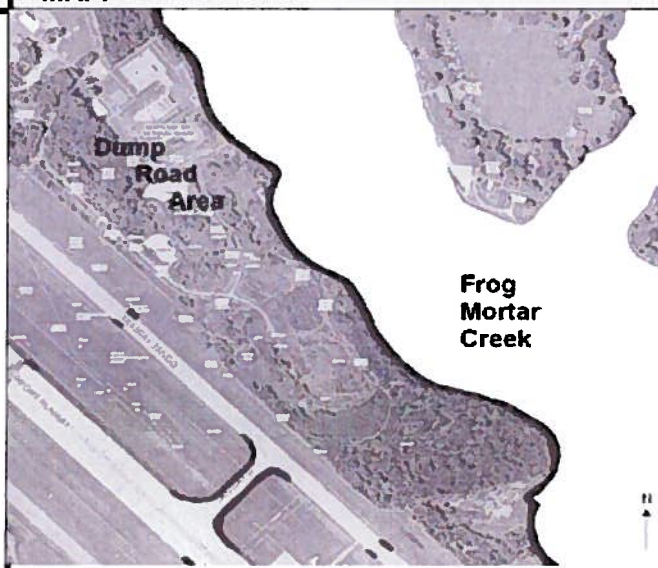
SAMPLING DATA:

Date:	3/7/2016	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP
Time:	1011								
Depth:	1 foot								
Method:	Grab								
		#N/A	7.84	3.67	7.85	6.22	11.7	1.9	156

SAMPLE COLLECTION INFORMATION:[illegible]**OBSERVATIONS / NOTES:**

GPS Coordinates:

MAP:

**Circle if Applicable:**

MS/MSD

Duplicate ID No.:

Signature(s):

Project Site Name:	Frog Mortar Creek, Martin State Airport	Sample ID No.:	EL-SW01D -030716
Project Number - Task:	112IC07804-09	Sample Location:	FMC SW
		Sampled By:	S. Cameron
☐ Stream		C.O.C. No.:	
☐ Spring			
☐ Pond		Type of Sample:	
☐ Lake		☒ Low Concentration	
☒ Other:	Tidal creek - estuarine	☐ High Concentration	
☐ QA Sample Type:			

SAMPLING DATA:

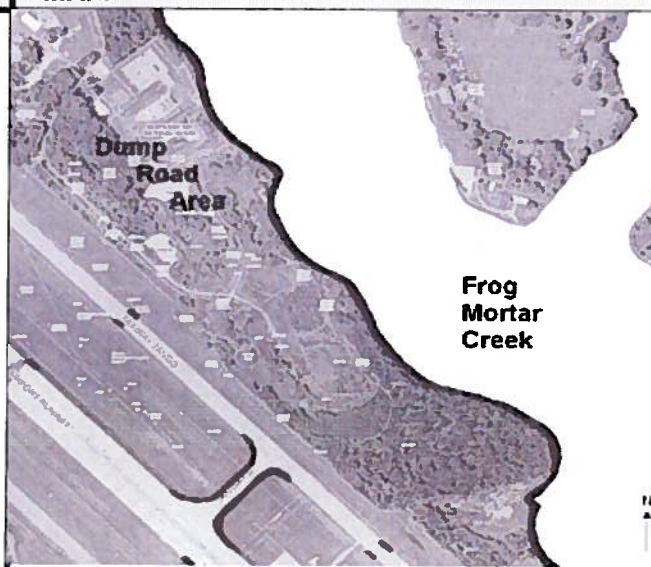
Date:	3/7/2016	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (‰)	ORP
Time:	1015								
Depth:	1 foot	#N/A	7.46	3.71	7.51	6.26	11.33	1.9	158
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

[illegible]**OBSERVATIONS / NOTES:**

GPS Coordinates:

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.: 112IC07804-09

Sample ID No.: MSA-SW37A -030716

Sample Location: MSA-SW37A

Sampled By: S. Cameron

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>3/7/2016</u>	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: <u>1318</u>	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth: <u>1 ft below water</u>		<u>8.04</u>	<u>4.86</u>	<u>10.74</u>	<u>9.20</u>	<u>9.86</u>	<u>2.6</u>	<u>180</u>
Method: <u>Grab</u>								

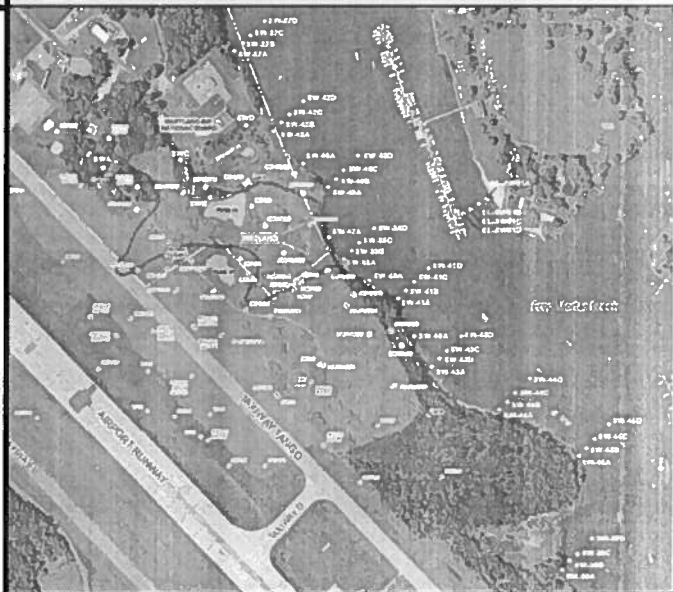
SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCL pH<2	3 - 40 mL glass vials	Yes
Dissolved metals	HNO ₃ pH<2	1 - 500 mL plastic	Yes
Hexavalent chromium	4° C	1 - 250 mL plastic	Yes

OBSERVATIONS / NOTES:

Water depth 0.45 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.: _____

Signature(s): _____

Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW37B -030716

Sample Location: FMC SW

Sampled By: S. Cameron

C.O.C. No.: _____

[[Stream

Spring

[] Pond

[] Lake

[x] Other: Tidal creek - estuarine

QA Sample Type: _____

Type of Sample:

[x] Low Concentration

☐ High Concentration

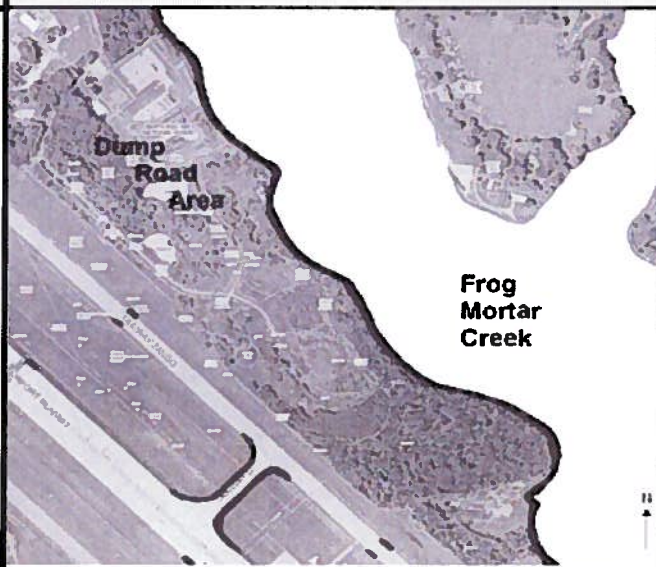
SAMPLING DATA:

Date:	3/7/2016	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (‰)	ORP
Time:	1325								
Depth:	1 foot								
Method:	Grab		Clear	7.98	4.77	10.09	10.48	10.27	

SAMPLE COLLECTION INFORMATION:[illegible]**OBSERVATIONS / NOTES:**

GPS Coordinates:

MAP:

**Circle if Applicable:**

MS/MSD

Duplicate ID No.:

Signature(s):



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW37C -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

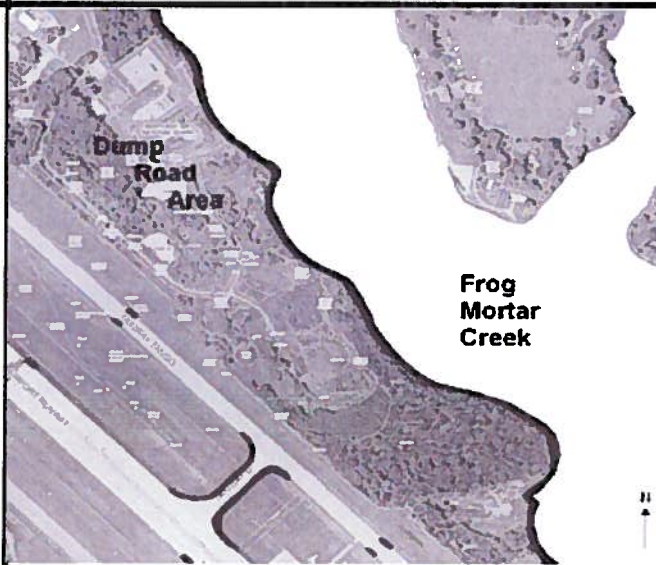
Date: <u>3/7/2016</u>	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: <u>1330</u>	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(‰)	
Depth: <u>1 foot</u>	Clear	8.07	4.58	9.53	8.74	10.42	2.4	175
Method: <u>Grab</u>								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW37D -030716

Sample Location: FMC SW

Sampled By: S. Cameron

C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

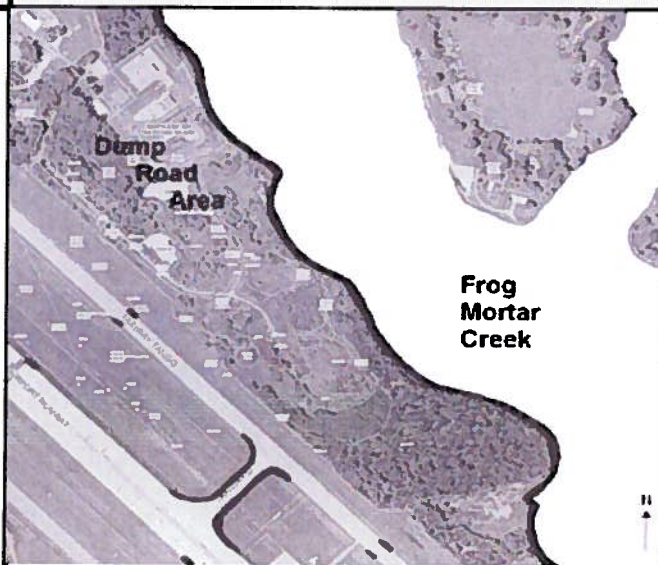
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	
Time:	1335	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Depth:	1 foot	Clear	8.2	4.47	9.27	6.89	10.52	2.3	173
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.: _____



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW38A -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

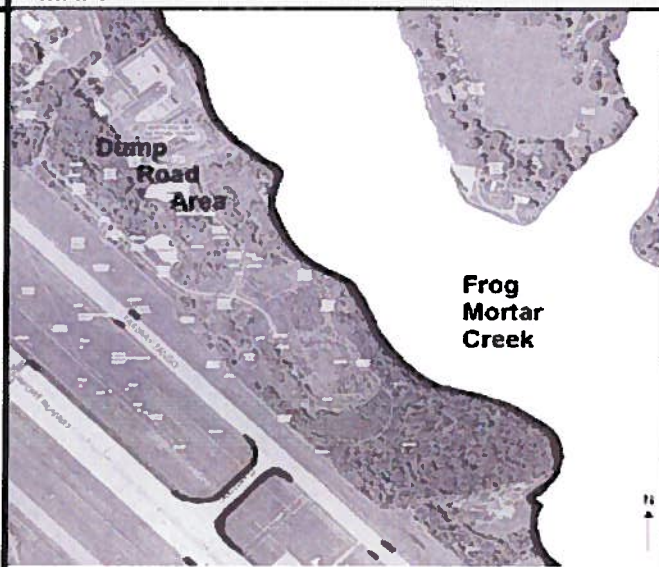
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1220	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(‰)	
Depth:	1 foot	Slightly	7.9	4.61	9.75	18.7	10	2.4	119
Method:	Grab	Brown							

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW38B -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

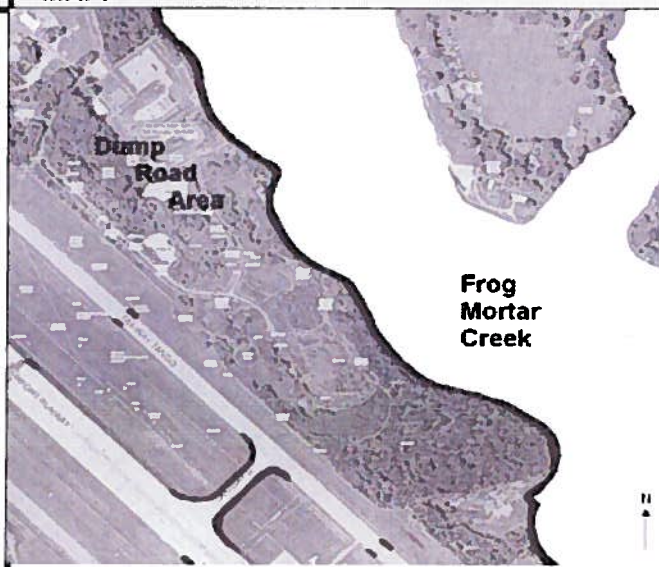
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1225	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(‰)	
Depth:	1 foot	Clear	7.87	4.53	9.41	9.95	10.44	2.4	123
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW38C -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

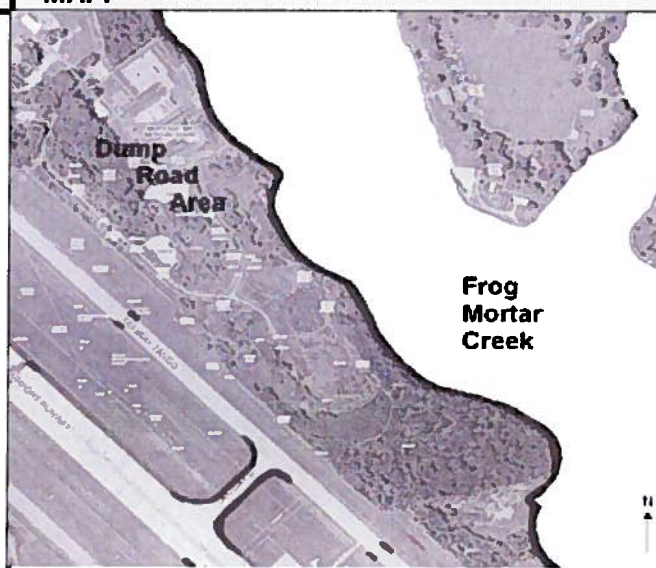
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1227	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	Clear	8.01	4.55	9.19	8.91	10.63	2.4	128
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW38D -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

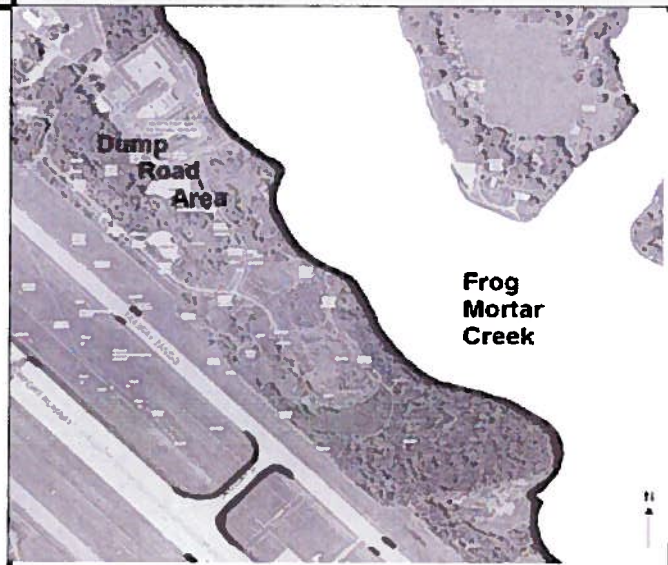
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1230	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	Clear	8.09	4.45	8.96	7.09	10.5	2.3	135
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW39A -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

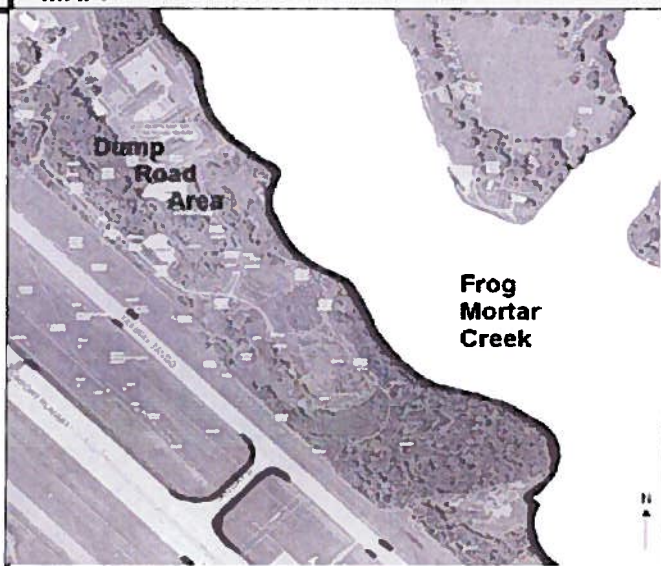
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1024	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(‰)	
Depth:	1 foot	#N/A	8.08	3.7	8.49	8.44	10.71	1.9	164
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



SURFACE WATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW39B -030716Sample Location: FMC SWSampled By: S. Cameron

C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1033	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	#N/A	8.27	3.78	8.2	6.65	11.58	1.9	163
Method:	Grab								

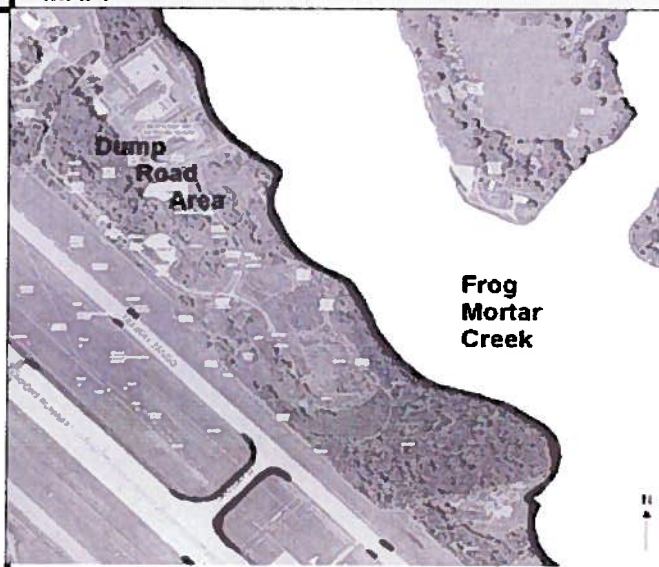
SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

MAP:

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.: _____

Project Site Name:	Frog Mortar Creek, Martin State Airport	Sample ID No.:	MSA-SW39C -030716
Project Number - Task:	112IC07804-09	Sample Location:	FMC SW
		Sampled By:	S. Cameron
☐ Stream		C.O.C. No.:	
☐ Spring			
☐ Pond		Type of Sample:	
☐ Lake		☒ Low Concentration	
☒ Other:	Tidal creek - estuarine	☐ High Concentration	
☐ QA Sample Type:			

SAMPLING DATA:

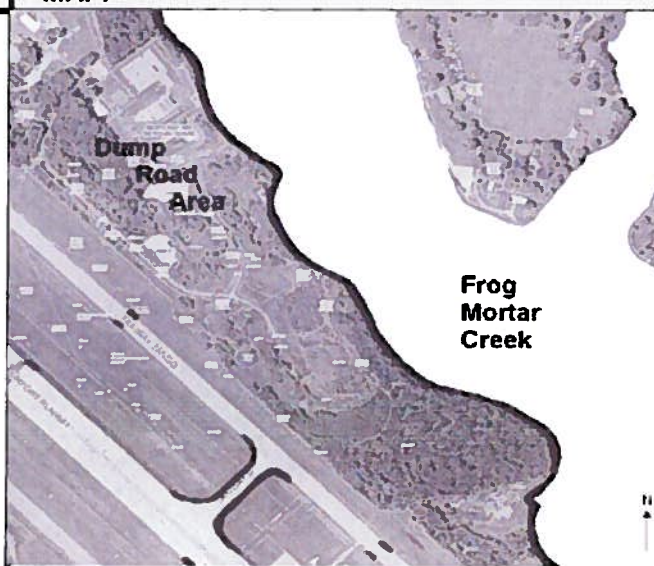
Date:	3/7/2016	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (‰)	ORP
Time:	1038								
Depth:	1 foot								
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

[illegible]**OBSERVATIONS / NOTES:**

GPS Coordinates:

MAP:

**Circle if Applicable:**

MS/MSD

Duplicate ID No.:

Signature(s):



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW39D -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

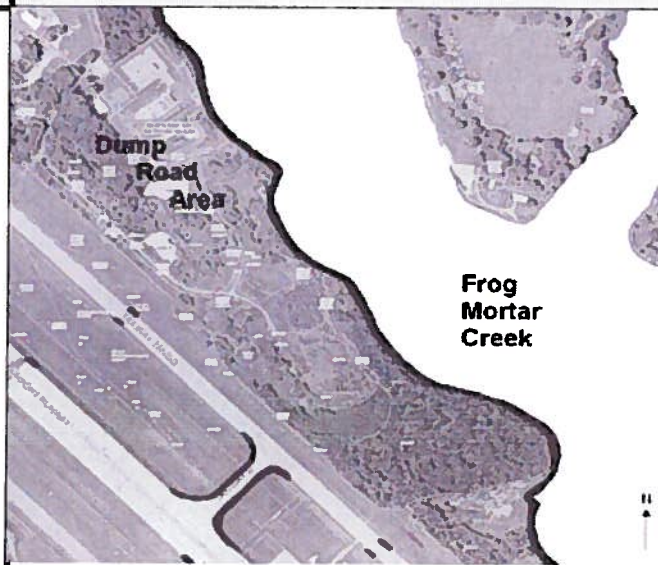
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1043	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	#N/A	8.17	3.95	8.16	7.75	11.07	2.1	167
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Page 1 of 1

Sample ID No.:	MSA-SW40A -030716
Sample Location:	FMC SW
Sampled By:	S. Cameron
C.O.C. No.:	

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

Type of Sample:
☒ Low Concentration
☐ High Concentration

Date:	3/7/2016	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (‰)	ORP
Time:	1240								
Depth:	1 foot								
Method:	Grab								
		Clear	8.05	4.55	10.17	12	10.21	2.4	157

[illegible]**MAP:**

Dump Road Area

Frog Mortar Creek

Scale 1:10,000

North Arrow

Signature(s):

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW40B -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

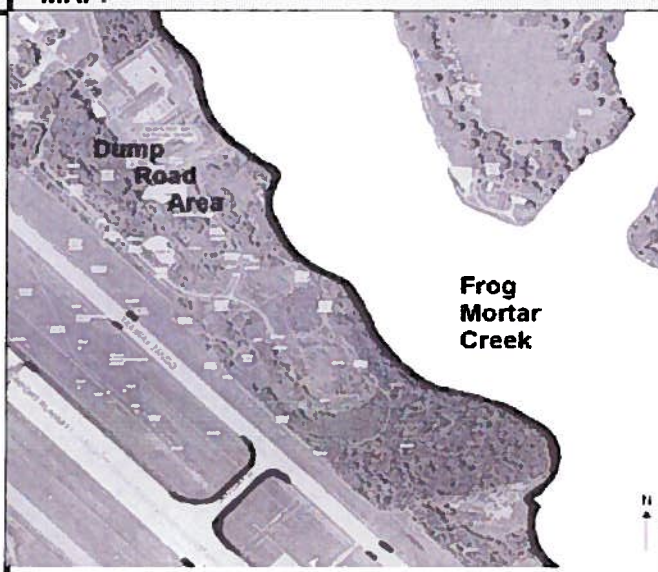
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1243	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	Clear	8.07	4.48	9.56	8.46	10.73	2.4	157
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW40C -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

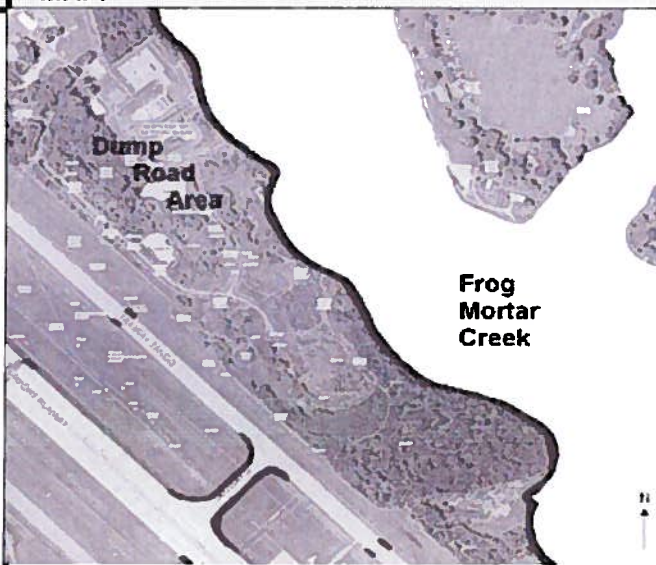
Date: <u>3/7/2016</u>	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: <u>1257</u>	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth: <u>1 foot</u>	Clear	8.18	4.4	9.35	8.7	10.65	2.3	157
Method: <u>Grab</u>								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:

**Circle if Applicable:**

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

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

Sample ID No.: MSA-SW40D -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

Type of Sample:
☒ Low Concentration
☐ High Concentration

SAMPLING DATA:

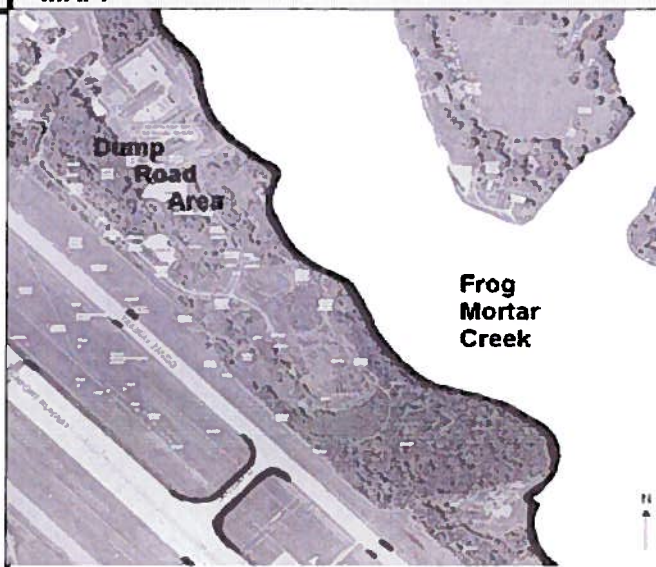
Date: <u>3/7/2016</u>	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: <u>1250</u>	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth: <u>1 foot</u>	<u>Clear</u>	<u>8.2</u>	<u>4.48</u>	<u>9.14</u>	<u>8.66</u>	<u>10.37</u>	<u>2.3</u>	<u>128</u>
Method: <u>Grab</u>								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:

**Circle if Applicable:****Signature(s):**

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW41A -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

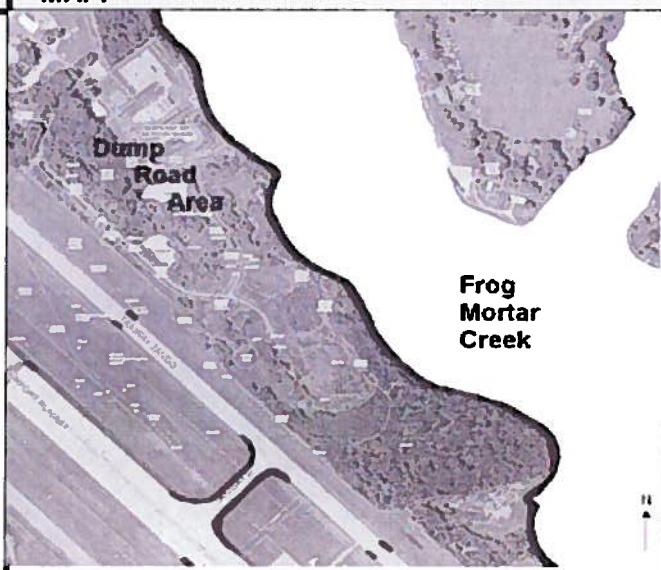
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1155	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	#N/A	7.9	3.95	9.53	16.9	10.5	2.1	121
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



SURFACE WATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW41B -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	
Time:	1200	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(‰)	ORP
Depth:	1 foot	#N/A	7.89	4.4	9.03	10.1	10.66	2.4	120
Method:	Grab								

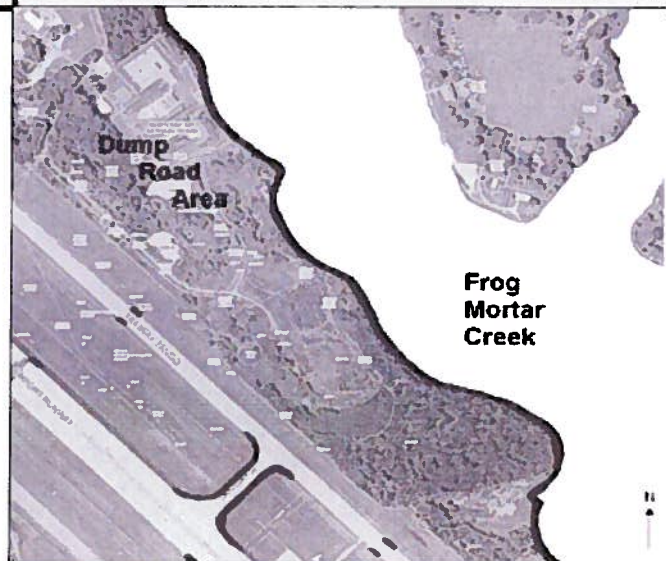
SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

MAP:

GPS Coordinates:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Project Site Name:	Frog Mortar Creek, Martin State Airport	Sample ID No.:	MSA-SW41C -030716
Project Number - Task:	112IC07804-09	Sample Location:	FMC SW
		Sampled By:	S. Cameron
☐ Stream		C.O.C. No.:	
☐ Spring			
☐ Pond		Type of Sample:	
☐ Lake		☒ Low Concentration	
☒ Other:	Tidal creek - estuarine	☐ High Concentration	
☐ QA Sample Type:			

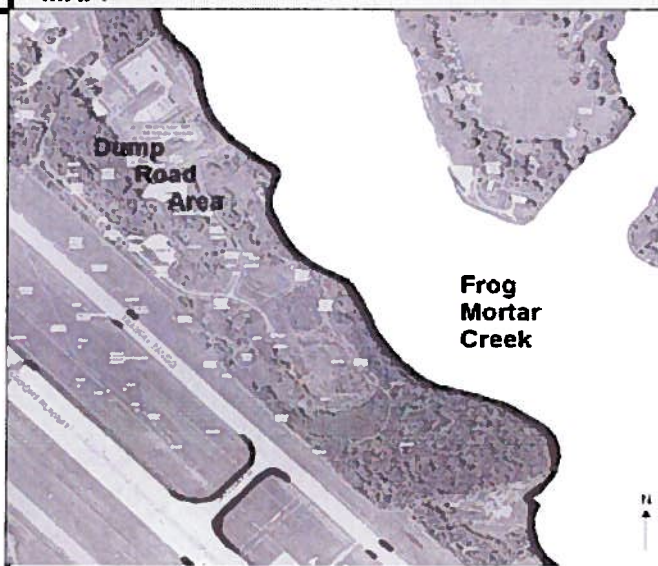
SAMPLING DATA:

Date:	3/7/2016	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (‰)	ORP
Time:	1205								
Depth:	1 foot								
Method:	Grab								

SAMPLE COLLECTION INFORMATION:[illegible]**OBSERVATIONS / NOTES:**

GPS Coordinates:

MAP:

**Circle if Applicable:**

MS/MSD

Duplicate ID No.:

Signature(s):



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW41D -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

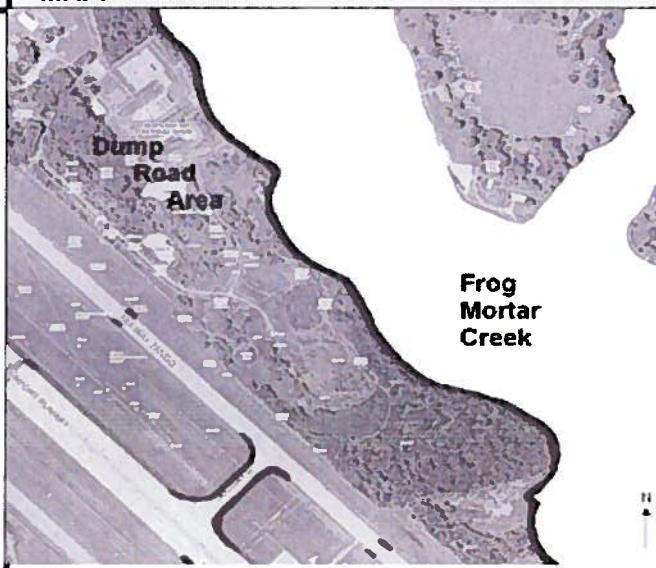
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1210	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(‰)	
Depth:	1 foot	#N/A	8.21	4.49	8.92	7.4	10.5	2.3	138
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW42A -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

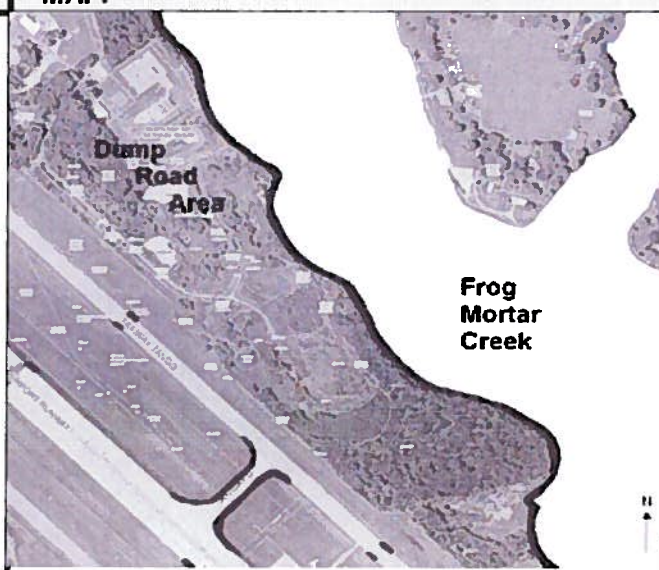
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1300	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	Clear	8.03	5.05	11.01	9.44	9.52	2.7	173
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW42B -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

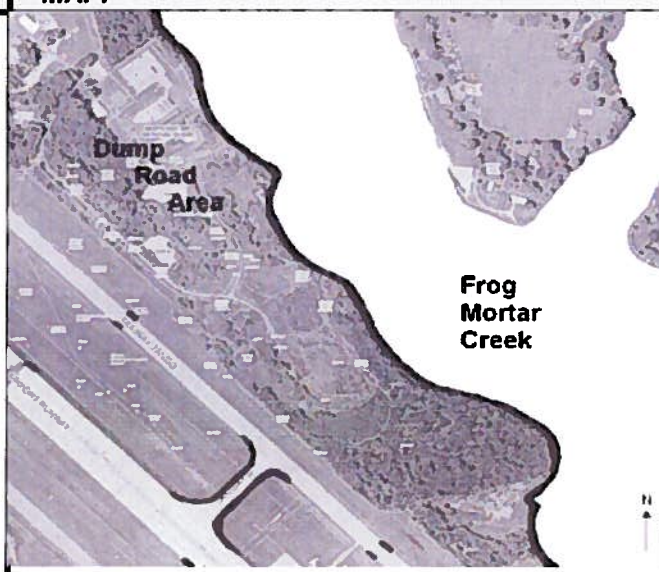
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1305	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	Clear	8.16	4.68	9.88	9.53	10.74	2.5	167
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW42C -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

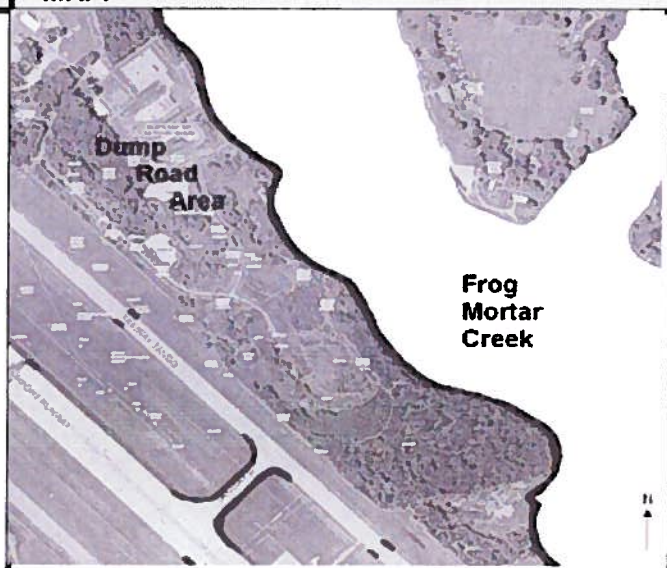
Date: <u>3/7/2016</u>	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: <u>1310</u>	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth: <u>1 foot</u>	Clear	8.12	4.62	9.59	10.72	10.59	2.4	169
Method: <u>Grab</u>								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:

Project Site Name: Frog Mortar Creek, Martin State AirportProject Number - Task: 112IC07804-09Sample ID No.: MSA-SW42D -030716Sample Location: FMC SWSampled By: S. Cameron

C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration**SAMPLING DATA:**

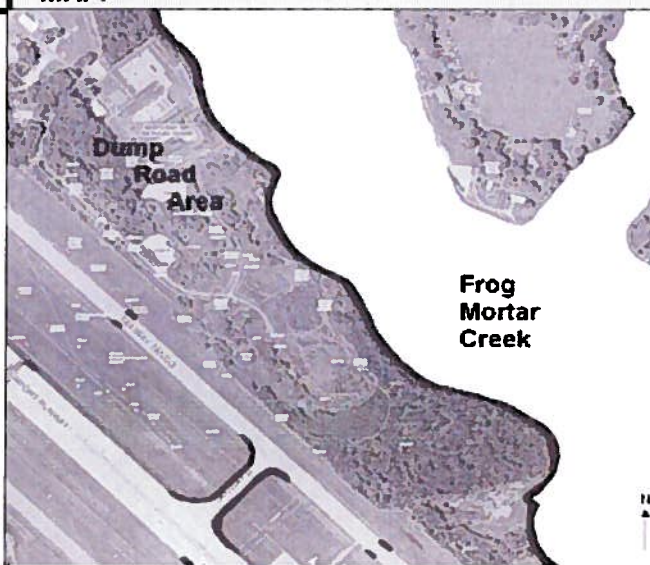
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1315	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	Clear	8.13	4.59	9.37	8.22	10.24	2.4	170
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.: _____



Project Site Name: Frog Mortar Creek, Martin State Airport
 Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW43A -030716
 Sample Location: FMC SW
 Sampled By: S. Cameron
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration**SAMPLING DATA:**

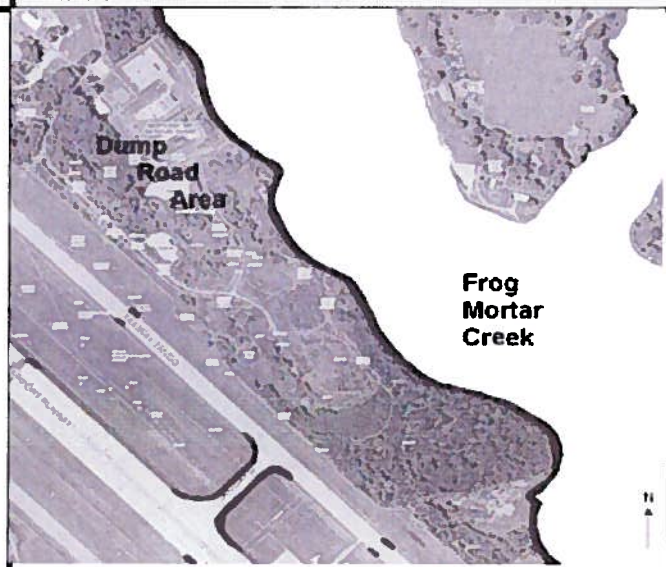
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1133	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	#N/A	8.82	3.96	8.84	18.5	10.35	1.9	83
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:

**Circle if Applicable:****Signature(s):**

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW43B -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

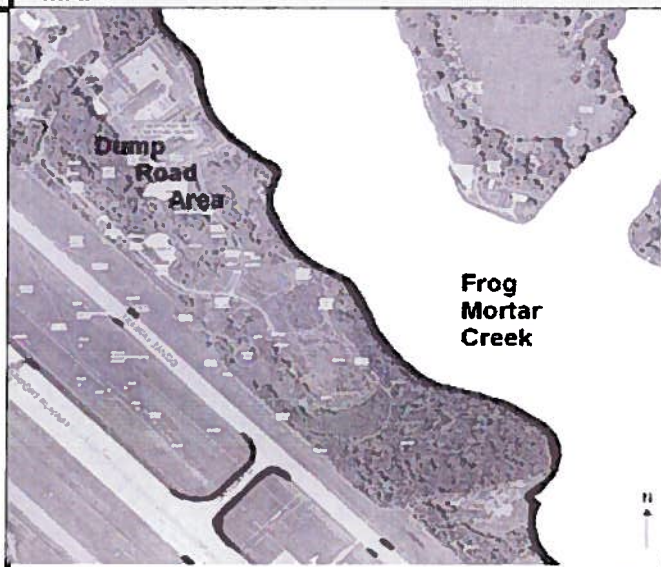
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1140	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	#N/A	8	3.84	8.84	7.03	10.65	2.1	97
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
 Project Number - Task: 112IC07804-09

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

Sample ID No.: MSA-SW43C -030716
 Sample Location: FMC SW
 Sampled By: S. Cameron
 C.O.C. No.: _____

Type of Sample:
☒ Low Concentration
☐ High Concentration

SAMPLING DATA:

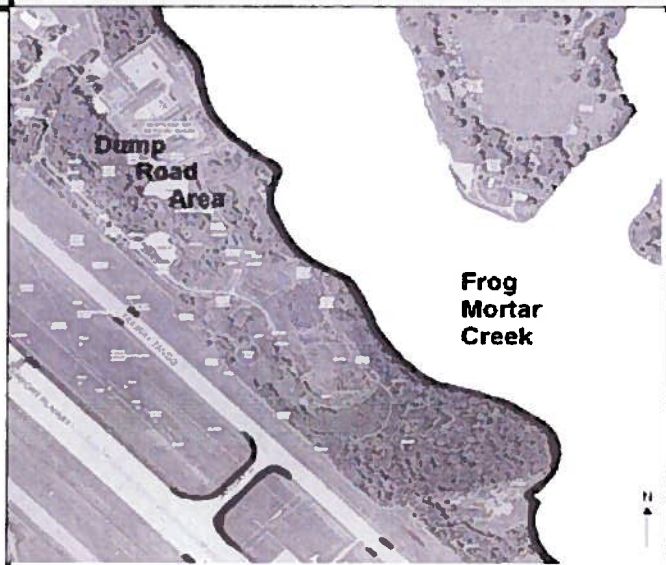
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1143	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	#N/A	8.13	4.39	8.88	7.62	10.64	2.3	124
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW43D -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

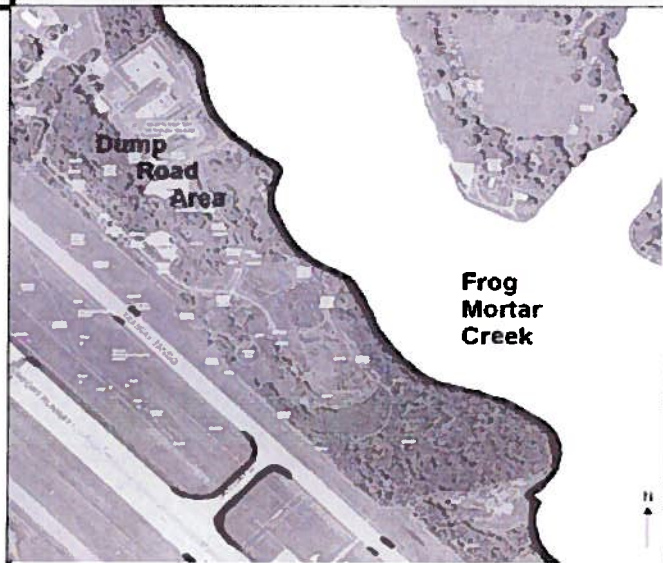
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1146	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	#N/A	8.24	4.34	8.84	7.7	10.9	2.3	131
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
 Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW44A -030716
 Sample Location: FMC SW
 Sampled By: S. Cameron
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration**SAMPLING DATA:**

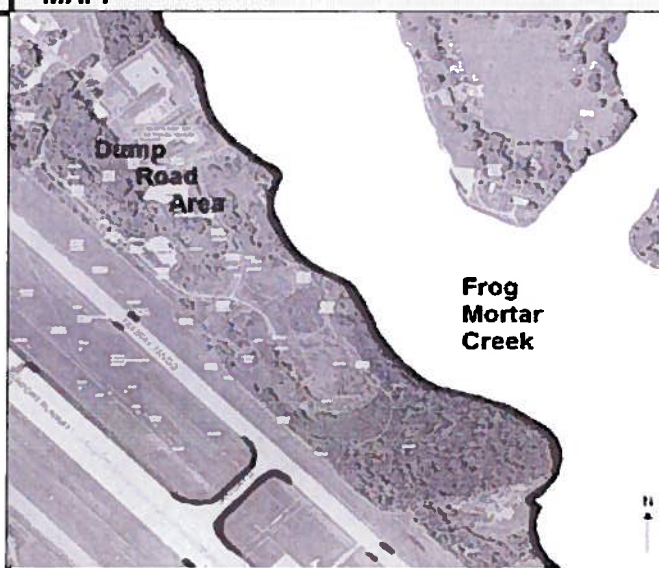
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1115	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	#N/A	8.5	3.56	8.49	5.68	10.59	1.8	172
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW44B -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

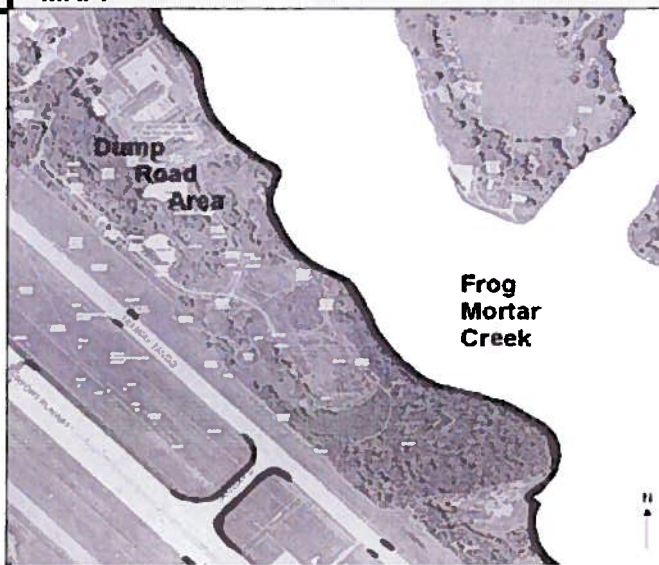
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1120	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	#N/A	8.69	3.92	8.7	6.81	10.78	2	173
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:

**Circle if Applicable:****Signature(s):**

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW44C -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

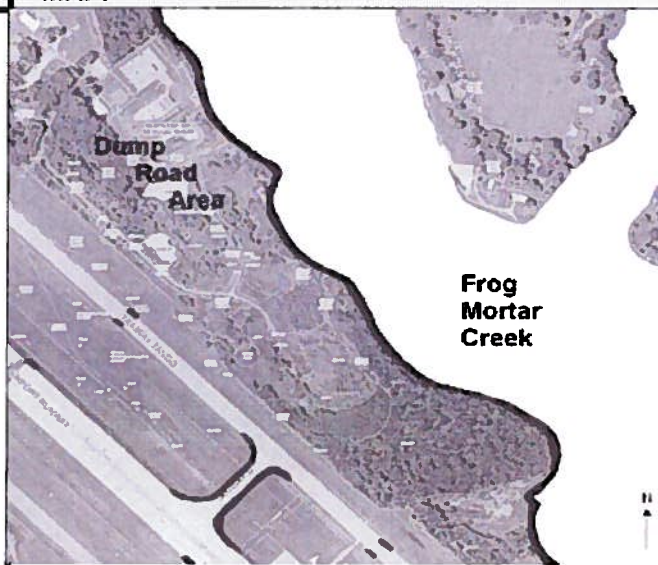
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1122	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	#N/A	8.28	4	8.17	6.68	10.27	2.1	175
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



SURFACE WATER SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW44D -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1126	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	#N/A	8.3	4	8.07	6.66	10.61	2	175
Method:	Grab								

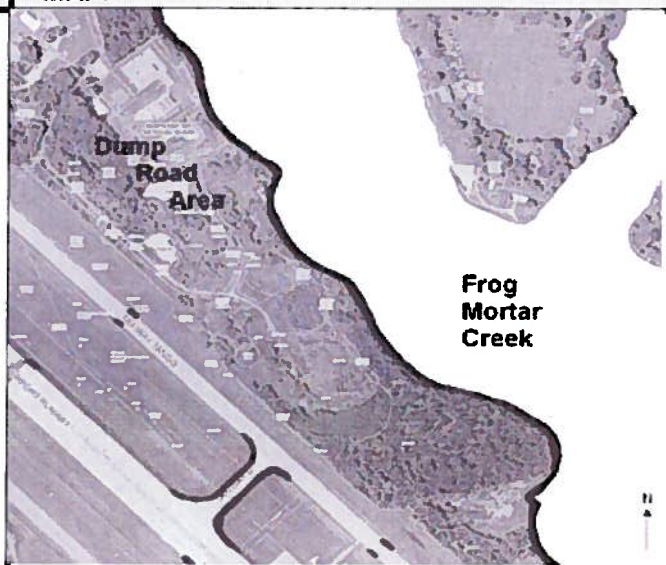
SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

MAP:

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

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

Sample ID No.: MSA-SW45A -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

Type of Sample:
☒ Low Concentration
☐ High Concentration

SAMPLING DATA:

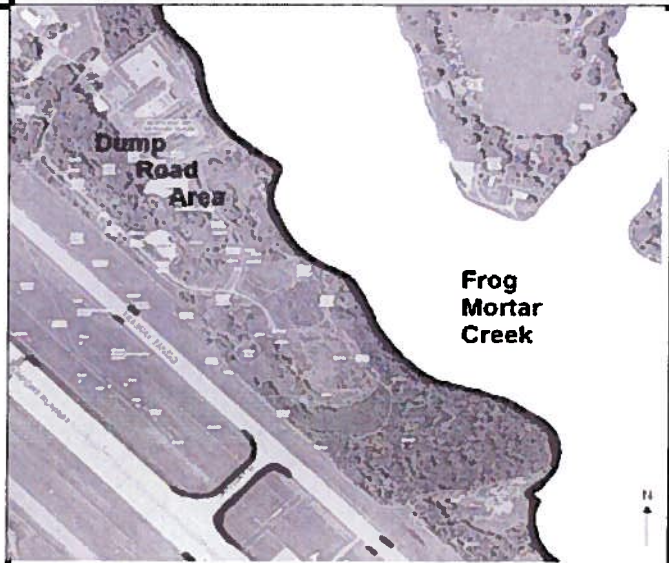
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1050	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	#N/A	8.19	3.71	8.76	8.78	10.77	1.9	170
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:

**Circle if Applicable:****Signature(s):**

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW45B -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

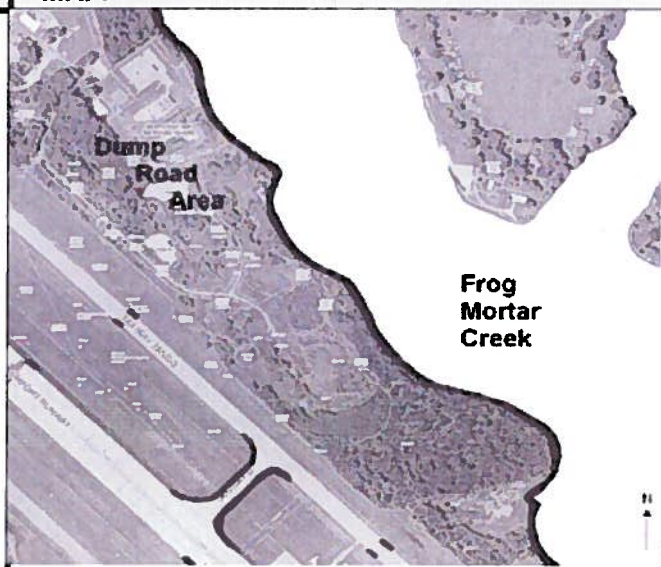
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1053	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth:	1 foot	#N/A	8.3	3.72	8.23	7.33	10.9	1.9	169
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.: _____



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW45C -030716

Sample Location: FMC SW

Sampled By: S. Cameron

C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

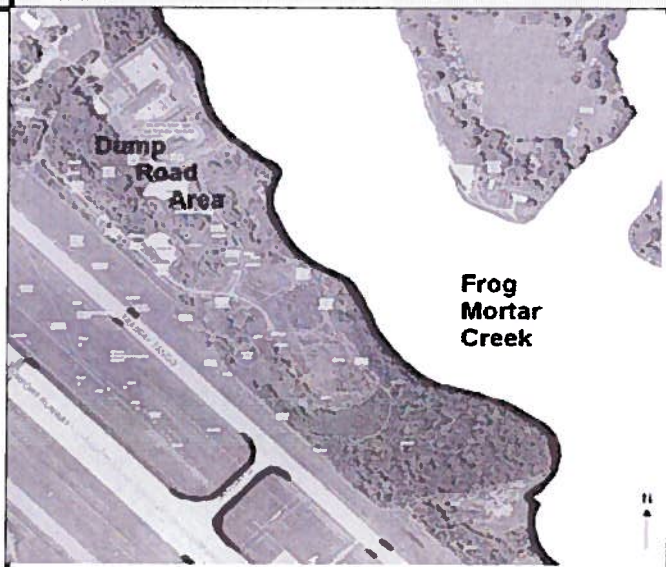
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	
Time:	1058	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Depth:	1 foot	#N/A	8.21	3.82	8.23	6.55	10.9	2	170
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.: _____



Project Site Name: Frog Mortar Creek, Martin State Airport
 Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW45D -030716
 Sample Location: FMC SW
 Sampled By: S. Cameron
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration**SAMPLING DATA:**

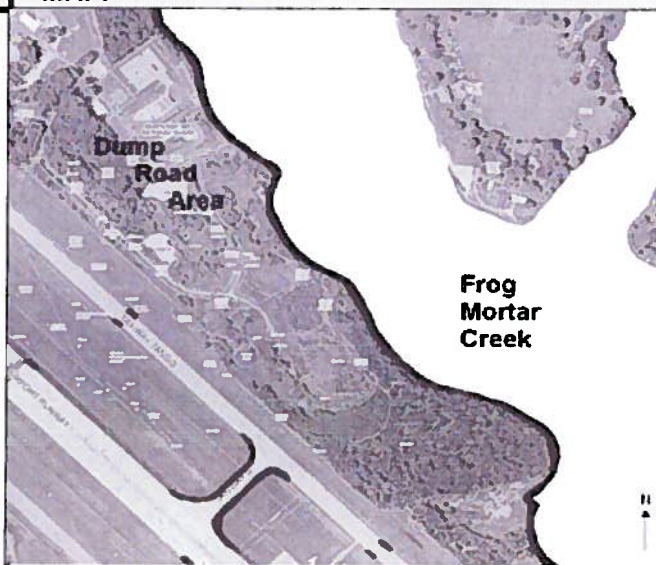
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	
Time:	1103	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Depth:	1 foot	#N/A	8.36	3.94	8.3	6.75	11.55	2.1	167
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:

Project Site Name:	Frog Mortar Creek, Martin State Airport	Sample ID No.:	MSA-SW46A -030716
Project Number - Task:	112IC07804-09	Sample Location:	FMC SW
☐ Stream		Sampled By:	S. Cameron
☐ Spring		C.O.C. No.:	
☐ Pond		Type of Sample:	
☐ Lake		☒ Low Concentration	
☒ Other:	Tidal creek - estuarine	☐ High Concentration	
☐ QA Sample Type:			

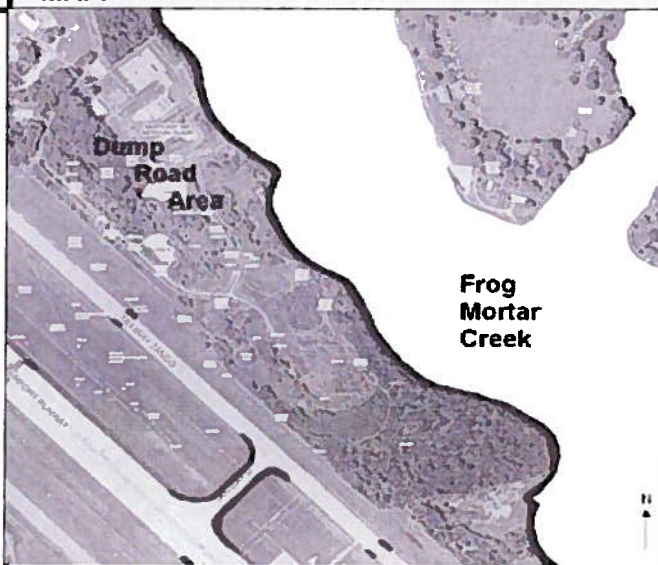
SAMPLING DATA:

Date:	3/7/2016	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP
Time:	1141								
Depth:	1 foot								
Method:	Grab								

SAMPLE COLLECTION INFORMATION:[illegible]**OBSERVATIONS / NOTES:**

GPS Coordinates:

MAP:

**Circle if Applicable:**

MS/MSD

Duplicate ID No.:

Signature(s):



Project Site Name: Frog Mortar Creek, Martin State Airport
 Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW47A -030716
 Sample Location: FMC SW
 Sampled By: S. Cameron
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration**SAMPLING DATA:**

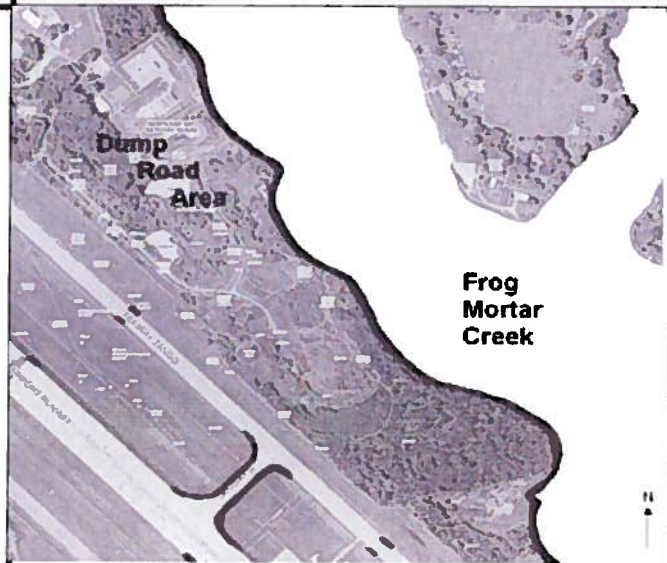
Date:	3/7/2016	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	
Time:	1215	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	ORP
Depth:	1 foot	#N/A	7.98	4.45	9.59	10.8	9.91	2.3	144
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:

**Circle if Applicable:****Signature(s):**

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW48A -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

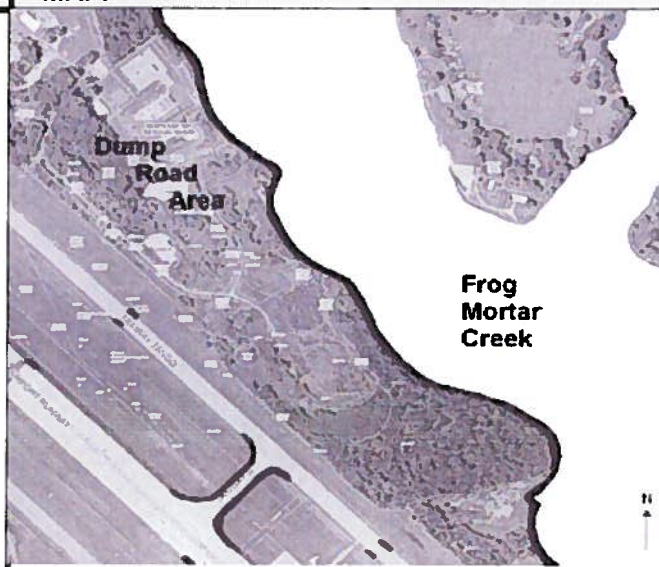
Date: <u>3/7/2016</u>	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: <u>1235</u>	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth: <u>1 foot</u>	#N/A	8.15	4.47	10.03	8.7	11.07	2.3	154
Method: <u>Grab</u>								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:



Project Site Name: Frog Mortar Creek, Martin State Airport
Project Number - Task: 112IC07804-09

Sample ID No.: MSA-SW49A -030716
Sample Location: FMC SW
Sampled By: S. Cameron
C.O.C. No.: _____

☐ Stream

☐ Spring

☐ Pond

☐ Lake

☒ Other: Tidal creek - estuarine

☐ QA Sample Type: _____

Type of Sample:

☒ Low Concentration

☐ High Concentration

SAMPLING DATA:

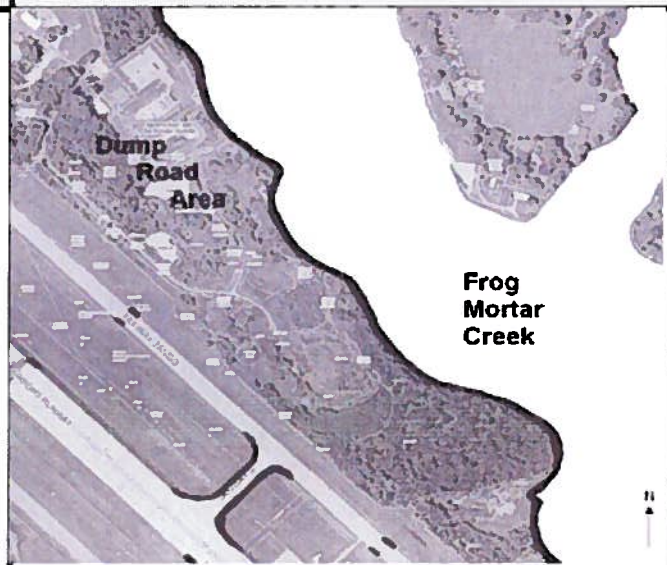
Date: <u>3/7/2016</u>	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: <u>1255</u>	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	
Depth: <u>1 foot</u>	#N/A	8.13	4.84	10.53	10.59	9.83	2.6	169
Method: <u>Grab</u>								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:**MAP:**

GPS Coordinates:



Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:

APPENDIX B—DATA-VALIDATION REPORTS



TO: A. APANAVAGE **DATE:** APRIL 13, 2016
FROM: MICHELLE L. ALLEN **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 240-61849-1

SAMPLES: 45/Aqueous/VOC

EL-SW01A-030716	EL-SW01B-030716	EL-SW01C-030716
EL-SW01D-030716	MSA-SW37A-030716	MSA-SW37B-030716
MSA-SW37C-030716	MSA-SW37D-030716	MSA-SW38A-030716
MSA-SW38B-030716	MSA-SW38C-030716	MSA-SW38D-030716
MSA-SW39A-030716	MSA-SW39B-030716	MSA-SW39C-030716
MSA-SW39D-030716	MSA-SW40A-030716	MSA-SW40B-030716
MSA-SW40C-030716	MSA-SW40D-030716	MSA-SW41A-030716
MSA-SW41B-030716	MSA-SW41C-030716	MSA-SW41D-030716
MSA-SW42A-030716	MSA-SW42B-030716	MSA-SW42C-030716
MSA-SW42D-030716	MSA-SW43A-030716	MSA-SW43B-030716
MSA-SW43C-030716	MSA-SW43D-030716	MSA-SW44A-030716
MSA-SW44B-030716	MSA-SW44C-030716	MSA-SW44D-030716
MSA-SW45A-030716	MSA-SW45B-030716	MSA-SW45C-030716
MSA-SW45D-030716	MSA-SW46A-030716	MSA-SW47A-030716
MSA-SW48A-030716	MSA-SW49A-030716	TB-030716

36/Aqueous/Dissolved Metals/Hardness

MSA-SW37A-030716	MSA-SW37B-030716	MSA-SW37C-030716
MSA-SW37D-030716	MSA-SW38A-030716	MSA-SW38B-030716
MSA-SW38C-030716	MSA-SW38D-030716	MSA-SW39A-030716
MSA-SW39B-030716	MSA-SW39C-030716	MSA-SW39D-030716
MSA-SW40A-030716	MSA-SW40B-030716	MSA-SW40C-030716
MSA-SW40D-030716	MSA-SW41A-030716	MSA-SW41B-030716
MSA-SW41C-030716	MSA-SW41D-030716	MSA-SW42A-030716
MSA-SW42B-030716	MSA-SW42C-030716	MSA-SW42D-030716
MSA-SW43A-030716	MSA-SW43B-030716	MSA-SW43C-030716
MSA-SW43D-030716	MSA-SW44A-030716	MSA-SW44B-030716
MSA-SW44C-030716	MSA-SW44D-030716	MSA-SW45A-030716
MSA-SW45B-030716	MSA-SW45C-030716	MSA-SW45D-030716

Overview

The sample set for LMC-MSA Frog Mortar Creek, SDG 240-61849-1 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 environmental 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 March 7, 2016 and analyzed by TestAmerica, Inc. All analyses were conducted in accordance with SW-846 Methods 8260C, 6020, and 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, sample preservation, GC/MS tuning, ICP/MS tuning, initial/continuing calibrations, ICP interference results, laboratory preparation/method/trip blanks, surrogate spike recoveries, laboratory control sample results, matrix spike/matrix spike duplicate results, internal standard results, chromatographic resolution, compound identification, tentatively identified compounds, compound/analyte quantitation, and detection limits. Areas of concern are listed below.

Major

- The continuing calibration performed on instrument A3UX16 had a Relative Response Factor (RRF) for tert-butyl alcohol below the 0.01 quality control limit. Samples MSA-SW42A-030716, MSA-SW42B-030716, MSA-SW42C-030716, MSA-SW42D-030716, and MSA-SW43A-030716 were affected. The non-detected results reported for this compound in the affected samples were qualified as rejected, (UR).
- The compound, 2-chloroethyl vinyl ether, was not recovered (Percent Recovery (%R) = 0%) in the Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses performed on samples MSA-SW37A-030716 and MSA-SW45A-030716. As stated in the case narrative, this compound cannot be reliably recovered in acid preserved samples. Because all environmental samples and the trip blank were preserved in acid, the recovery of this compound is not reliable. The non-detected results reported for 2-chloroethyl vinyl ether in all environmental samples were qualified as rejected, (UR).

Minor

- The continuing calibration performed on instrument A3UX17 on 03/14/16 @ 11:45 had a Percent Drift (%Drift) for 2-butanone and a Percent Difference (%D) for bromomethane which exceeded the 20% quality control criteria. Samples EL-SW01A-030716, EL-SW01B-030716, EL-SW01C-030716, EL-SW01D-030716, MSA-SW43B-030716, MSA-SW43C-030716, MSA-SW43D-030716, MSA-SW44A-030716, MSA-SW44B-030716, MSA-SW44C-030716, MSA-SW44D-030716, MSA-SW45A-030716, MSA-SW45B-030716, MSA-SW45C-030716, MSA-SW45D-030716, MSA-SW46A-030716, MSA-SW47A-030716, MSA-SW48A-030716, MSA-SW49A-030716, and TB-030716 were affected. The non-detected results reported for these compounds in the affected samples were qualified as estimated, (UJ).
- The following analytes were detected in the laboratory preparation and method blanks at the following maximum concentrations:

Analyte	Maximum Concentration (µg/L)	Reporting Limit (RL) > or <
Beryllium ⁽¹⁾	0.725	<RL
Cadmium ⁽¹⁾	0.109	<RL
Cobalt ⁽¹⁾	0.138	<RL
Lead ⁽¹⁾	0.117	<RL
Selenium ⁽¹⁾	0.359	<RL
Silver ⁽¹⁾	0.053	<RL
Thallium ⁽¹⁾	0.136	<RL
Cobalt ⁽²⁾	0.074	<RL
Selenium ⁽²⁾	0.334	<RL
Silver ⁽²⁾	0.033	<RL
Vanadium ⁽²⁾	0.260	<RL

Barium ⁽³⁾	2.16	<RL
Copper ⁽³⁾	0.839	<RL
Zinc ⁽³⁾	25.5	>RL

⁽¹⁾ - Maximum concentration detected in the initial/continuing calibration blanks associated with analytical batch #240-221854 affecting environmental samples associated with this analytical batch.

⁽²⁾ - Maximum concentration detected in the initial/continuing calibration blanks associated with analytical batch #240-222146 affecting environmental samples associated with this analytical batch.

⁽³⁾ - Maximum concentration detected in the laboratory method blank associated with preparation batch #240-220945 affecting environmental samples associated with this preparation batch.

The detected results reported for the below the RL were qualified as non-detected, (U).

- The Matrix Spike/Matrix Spike Duplicate (MS/MSD) analyses performed on samples MSA-SW37A-030716 and MSA-SW42A-030716 had Percent Recoveries (%Rs) for mercury which exceeded the 120% quality control limit. All samples were affected. The detected result reported for mercury in sample MSA-SW44A-030716 was qualified as estimated, (J). No action was taken for non-detected mercury results.
- The Tentatively Identified Compound (TIC) (1S,2R)-(+)-norephedrine was detected in sample MSA-SW45A-030716. This compound is qualified as estimated presumptively present, (NJ).
- A TIC search was performed for the compound chlorodifluoromethane. The presence or absence of chlorodifluoromethane is based on a search of key mass to charge ratios that are unique to the compound of interest after sample analysis. 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 considered to be an estimated numerical result. The non-detected results reported for chlorodifluoromethane were qualified as estimated, (UJ).
- Detected results reported below the Reporting Limit (RL) but above the Method Detection Limit (MDL) were qualified as estimated, (J).

Notes

As stated in the case narrative, the laboratory received samples MSA-SW46A-030716, MSA-SW47A-030716, MSA-SW48A-030716, and MSA-SW49A-030716 for VOC analysis that were not listed on the Chain of Custody (COC). As per client request, these samples were analyzed for VOCs.

Samples EL-SW01A-030716, EL-SW01B-030716, EL-SW01C-030716, and EL-SW01D-030716 were logged into the laboratory with a "MSA" prefix versus "EL" as indicated on the COC. The laboratory was contacted and corrected the misidentifications.

The metals Continuing Calibration Verification (CCV) associated with analytical batch #240-221854 (03/17/16 @ 01:57) had a %R for tungsten which exceeded the 110% quality control limit. No action was necessary because tungsten was not detected in the affected sample, MSA-SW41D-030716.

TO: A. APANAVAGE
SDG: 240-61849-1

PAGE 4

The compound below was detected in a laboratory method blank at the following maximum concentrations:

<u>Analyte</u>	<u>Maximum Concentration (µg/L)</u>	<u>Action Level (µg/L)</u>
Methylene Chloride ⁽¹⁾	0.825	8.25

⁽¹⁾ - Maximum concentration detected in the laboratory method blank MB 240-221418/6, associated with preparation batch #240-221418.

No action was taken because methylene chloride was not detected in the samples associated with this preparation batch.

The MS/MSD analyses performed on sample MSA-SW45A-030716 had a MS %R for 2-butanone which exceeded the upper quality control limit. No action was taken in the parent sample because 2-butanone was not detected and the MSD and associated LCS %Rs were acceptable.

Non-detected results were reported to the MDL.

Executive Summary

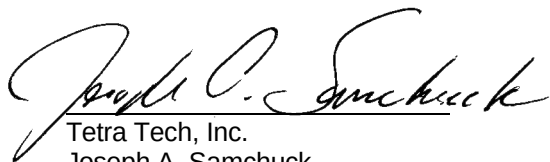
Laboratory Performance: A VOC continuing calibration RRF for tert-butyl alcohol was below the 0.01 quality control criterion. A VOC continuing calibration had a %Drift and a %D which exceeded 20%. Methylene chloride and metals were detected in laboratory method and/or preparation blanks. A TIC was detected in one sample.

Other Factors Affecting Data Quality: 2-Chloroethyl vinyl ether was not recovered in the MS/MSD analyses resulting in the rejection of the non-detected results in the environmental samples. A detected mercury result was estimated due to high MS/MSD %Rs. Results below the RL were estimated. Non-detected chlorodifluoromethane results were estimated based TIC library search.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Review" (August 2014) and "National Functional Guidelines for Inorganic Review" (August 2014). The text of this report has been formulated to address only those areas affecting data quality.



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



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

Attachments:

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

Appendix A

Qualified Analytical Results

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ 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

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	EL-SW01A-030716			EL-SW01B-030716			EL-SW01C-030716			EL-SW01D-030716		
	LAB_ID	240-61849-37			240-61849-38			240-61849-39			240-61849-40		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.28	U		0.28	U		0.28	U		0.28	U	
1,1,1-TRICHLOROETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,1,2,2-TETRACHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
1,1-DICHLOROETHENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROPROPENE		0.42	U		0.42	U		0.42	U		0.42	U	
1,2,3-TRICHLOROBENZENE		0.37	U		0.37	U		0.37	U		0.37	U	
1,2,3-TRICHLOROPROPANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,2,3-TRIMETHYLBENZENE		0.47	U		0.47	U		0.47	U		0.47	U	
1,2,4-TRICHLOROBENZENE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2,4-TRIMETHYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.82	U		0.82	U		0.82	U		0.82	U	
1,2-DIBROMOETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2-DICHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
1,2-DICHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,2-DICHLOROPROPANE		0.25	U		0.25	U		0.25	U		0.25	U	
1,3-DICHLOROBENZENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,3-DICHLOROPROPANE		0.19	U		0.19	U		0.19	U		0.19	U	
1,4-DICHLOROBENZENE		0.27	U		0.27	U		0.27	U		0.27	U	
2,2-DICHLOROPROPANE		0.26	U		0.26	U		0.26	U		0.26	U	
2-BUTANONE		0.53	UJ	C	0.53	UJ	C	0.53	UJ	C	0.53	UJ	C
2-CHLOROETHYL VINYL ETHER		0.59	UR	Q	0.59	UR	Q	0.59	UR	Q	0.59	UR	Q
2-CHLOROTOLUENE		0.4	U		0.4	U		0.4	U		0.4	U	
2-HEXANONE		0.48	U		0.48	U		0.48	U		0.48	U	
4-CHLOROTOLUENE		0.29	U		0.29	U		0.29	U		0.29	U	
4-ISOPROPYLTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		0.94	U		0.94	U		0.94	U		0.94	U	
BENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOCHLOROMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMODICHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMOFORM		0.56	U		0.56	U		0.56	U		0.56	U	
BROMOMETHANE		0.44	UJ	C	0.44	UJ	C	0.44	UJ	C	0.44	UJ	C

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW37A-030716			MSA-SW37B-030716			MSA-SW37C-030716			MSA-SW37D-030716		
	LAB_ID	240-61849-1			240-61849-2			240-61849-3			240-61849-4		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.28 U			0.28 U			0.28 U			0.28 U		
1,1,1-TRICHLOROETHANE		0.44 U			0.44 U			0.44 U			0.44 U		
1,1,2,2-TETRACHLOROETHANE		0.22 U			0.22 U			0.22 U			0.22 U		
1,1,2-TRICHLOROTRIFLUOROETHANE		0.45 U			0.45 U			0.45 U			0.45 U		
1,1-DICHLOROETHANE		0.3 U			0.3 U			0.3 U			0.3 U		
1,1-DICHLOROETHENE		0.45 U			0.45 U			0.45 U			0.45 U		
1,1-DICHLOROPROPENE		0.42 U			0.42 U			0.42 U			0.42 U		
1,2,3-TRICHLOROBENZENE		0.37 U			0.37 U			0.37 U			0.37 U		
1,2,3-TRICHLOROPROPANE		0.44 U			0.44 U			0.44 U			0.44 U		
1,2,3-TRIMETHYLBENZENE		0.47 U			0.47 U			0.47 U			0.47 U		
1,2,4-TRICHLOROBENZENE		0.32 U			0.32 U			0.32 U			0.32 U		
1,2,4-TRIMETHYLBENZENE		0.41 U			0.41 U			0.41 U			0.41 U		
1,2-DIBROMO-3-CHLOROPROPANE		0.82 U			0.82 U			0.82 U			0.82 U		
1,2-DIBROMOETHANE		0.32 U			0.32 U			0.32 U			0.32 U		
1,2-DICHLOROBENZENE		0.25 U			0.25 U			0.25 U			0.25 U		
1,2-DICHLOROETHANE		0.23 U			0.23 U			0.23 U			0.23 U		
1,2-DICHLOROPROPANE		0.25 U			0.25 U			0.25 U			0.25 U		
1,3-DICHLOROBENZENE		0.19 U			0.19 U			0.19 U			0.19 U		
1,3-DICHLOROPROPANE		0.19 U			0.19 U			0.19 U			0.19 U		
1,4-DICHLOROBENZENE		0.27 U			0.27 U			0.27 U			0.27 U		
2,2-DICHLOROPROPANE		0.26 U			0.26 U			0.26 U			0.26 U		
2-BUTANONE		0.53 U			0.53 U			0.53 U			0.53 U		
2-CHLOROETHYL VINYL ETHER		0.59 UR	Q		0.59 UR	Q		0.59 UR	Q		0.59 UR	Q	
2-CHLOROTOLUENE		0.4 U			0.4 U			0.4 U			0.4 U		
2-HEXANONE		0.48 U			0.48 U			0.48 U			0.48 U		
4-CHLOROTOLUENE		0.29 U			0.29 U			0.29 U			0.29 U		
4-ISOPROPYLTOLUENE		0.43 U			0.43 U			0.43 U			0.43 U		
4-METHYL-2-PENTANONE		0.99 U			0.99 U			0.99 U			0.99 U		
ACETONE		0.94 U			0.94 U			0.94 U			0.94 U		
BENZENE		0.35 U			0.35 U			0.35 U			0.35 U		
BROMOBENZENE		0.35 U			0.35 U			0.35 U			0.35 U		
BROMOCHLOROMETHANE		0.5 U			0.5 U			0.5 U			0.5 U		
BROMODICHLOROMETHANE		0.29 U			0.29 U			0.29 U			0.29 U		
BROMOFORM		0.56 U			0.56 U			0.56 U			0.56 U		
BROMOMETHANE		0.44 U			0.44 U			0.44 U			0.44 U		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW38A-030716			MSA-SW38B-030716			MSA-SW38C-030716			MSA-SW38D-030716		
	LAB_ID	240-61849-5			240-61849-6			240-61849-7			240-61849-8		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.28 U			0.28 U			0.28 U			0.28 U		
1,1,1-TRICHLOROETHANE		0.44 U			0.44 U			0.44 U			0.44 U		
1,1,2,2-TETRACHLOROETHANE		0.22 U			0.22 U			0.22 U			0.22 U		
1,1,2-TRICHLOROTRIFLUOROETHANE		0.45 U			0.45 U			0.45 U			0.45 U		
1,1-DICHLOROETHANE		0.3 U			0.3 U			0.3 U			0.3 U		
1,1-DICHLOROETHENE		0.45 U			0.45 U			0.45 U			0.45 U		
1,1-DICHLOROPROPENE		0.42 U			0.42 U			0.42 U			0.42 U		
1,2,3-TRICHLOROBENZENE		0.37 U			0.37 U			0.37 U			0.37 U		
1,2,3-TRICHLOROPROPANE		0.44 U			0.44 U			0.44 U			0.44 U		
1,2,3-TRIMETHYLBENZENE		0.47 U			0.47 U			0.47 U			0.47 U		
1,2,4-TRICHLOROBENZENE		0.32 U			0.32 U			0.32 U			0.32 U		
1,2,4-TRIMETHYLBENZENE		0.41 U			0.41 U			0.41 U			0.41 U		
1,2-DIBROMO-3-CHLOROPROPANE		0.82 U			0.82 U			0.82 U			0.82 U		
1,2-DIBROMOETHANE		0.32 U			0.32 U			0.32 U			0.32 U		
1,2-DICHLOROBENZENE		0.25 U			0.25 U			0.25 U			0.25 U		
1,2-DICHLOROETHANE		0.23 U			0.23 U			0.23 U			0.23 U		
1,2-DICHLOROPROPANE		0.25 U			0.25 U			0.25 U			0.25 U		
1,3-DICHLOROBENZENE		0.19 U			0.19 U			0.19 U			0.19 U		
1,3-DICHLOROPROPANE		0.19 U			0.19 U			0.19 U			0.19 U		
1,4-DICHLOROBENZENE		0.35 J		P	0.27 U			0.27 U			0.27 U		
2,2-DICHLOROPROPANE		0.26 U			0.26 U			0.26 U			0.26 U		
2-BUTANONE		0.53 U			0.53 U			0.53 U			0.53 U		
2-CHLOROETHYL VINYL ETHER		0.59 UR		Q	0.59 UR		Q	0.59 UR		Q	0.59 UR		Q
2-CHLOROTOLUENE		0.4 U			0.4 U			0.4 U			0.4 U		
2-HEXANONE		0.48 U			0.48 U			0.48 U			0.48 U		
4-CHLOROTOLUENE		0.29 U			0.29 U			0.29 U			0.29 U		
4-ISOPROPYLTOLUENE		0.43 U			0.43 U			0.43 U			0.43 U		
4-METHYL-2-PENTANONE		0.99 U			0.99 U			0.99 U			0.99 U		
ACETONE		0.94 U			0.94 U			0.94 U			0.94 U		
BENZENE		0.35 U			0.35 U			0.35 U			0.35 U		
BROMOBENZENE		0.35 U			0.35 U			0.35 U			0.35 U		
BROMOCHLOROMETHANE		0.5 U			0.5 U			0.5 U			0.5 U		
BROMODICHLOROMETHANE		0.29 U			0.29 U			0.29 U			0.29 U		
BROMOFORM		0.56 U			0.56 U			0.56 U			0.56 U		
BROMOMETHANE		0.44 U			0.44 U			0.44 U			0.44 U		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW39A-030716			MSA-SW39B-030716			MSA-SW39C-030716			MSA-SW39D-030716		
	LAB_ID	240-61849-9			240-61849-10			240-61849-11			240-61849-12		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.28	U		0.28	U		0.28	U		0.28	U	
1,1,1-TRICHLOROETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,1,2,2-TETRACHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
1,1-DICHLOROETHENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROPROPENE		0.42	U		0.42	U		0.42	U		0.42	U	
1,2,3-TRICHLOROBENZENE		0.37	U		0.37	U		0.37	U		0.37	U	
1,2,3-TRICHLOROPROPANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,2,3-TRIMETHYLBENZENE		0.47	U		0.47	U		0.47	U		0.47	U	
1,2,4-TRICHLOROBENZENE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2,4-TRIMETHYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.82	U		0.82	U		0.82	U		0.82	U	
1,2-DIBROMOETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2-DICHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
1,2-DICHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,2-DICHLOROPROPANE		0.25	U		0.25	U		0.25	U		0.25	U	
1,3-DICHLOROBENZENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,3-DICHLOROPROPANE		0.19	U		0.19	U		0.19	U		0.19	U	
1,4-DICHLOROBENZENE		0.27	U		0.27	U		0.27	U		0.27	U	
2,2-DICHLOROPROPANE		0.26	U		0.26	U		0.26	U		0.26	U	
2-BUTANONE		0.53	U		0.53	U		0.53	U		0.53	U	
2-CHLOROETHYL VINYL ETHER		0.59	UR	Q	0.59	UR	Q	0.59	UR	Q	0.59	UR	Q
2-CHLOROTOLUENE		0.4	U		0.4	U		0.4	U		0.4	U	
2-HEXANONE		0.48	U		0.48	U		0.48	U		0.48	U	
4-CHLOROTOLUENE		0.29	U		0.29	U		0.29	U		0.29	U	
4-ISOPROPYLTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		0.94	U		0.94	U		0.94	U		0.94	U	
BENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOCHLOROMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMODICHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMOFORM		0.56	U		0.56	U		0.56	U		0.56	U	
BROMOMETHANE		0.44	U		0.44	U		0.44	U		0.44	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW40A-030716			MSA-SW40B-030716			MSA-SW40C-030716			MSA-SW40D-030716		
	LAB_ID	240-61849-13			240-61849-14			240-61849-15			240-61849-16		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.28	U		0.28	U		0.28	U		0.28	U	
1,1,1-TRICHLOROETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,1,2,2-TETRACHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
1,1-DICHLOROETHENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROPROPENE		0.42	U		0.42	U		0.42	U		0.42	U	
1,2,3-TRICHLOROBENZENE		0.37	U		0.37	U		0.37	U		0.37	U	
1,2,3-TRICHLOROPROPANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,2,3-TRIMETHYLBENZENE		0.47	U		0.47	U		0.47	U		0.47	U	
1,2,4-TRICHLOROBENZENE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2,4-TRIMETHYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.82	U		0.82	U		0.82	U		0.82	U	
1,2-DIBROMOETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2-DICHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
1,2-DICHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,2-DICHLOROPROPANE		0.25	U		0.25	U		0.25	U		0.25	U	
1,3-DICHLOROBENZENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,3-DICHLOROPROPANE		0.19	U		0.19	U		0.19	U		0.19	U	
1,4-DICHLOROBENZENE		0.35	J	P	0.27	U		0.27	U		0.27	U	
2,2-DICHLOROPROPANE		0.26	U		0.26	U		0.26	U		0.26	U	
2-BUTANONE		0.53	U		0.53	U		0.53	U		0.53	U	
2-CHLOROETHYL VINYL ETHER		0.59	UR	Q	0.59	UR	Q	0.59	UR	Q	0.59	UR	Q
2-CHLOROTOLUENE		0.4	U		0.4	U		0.4	U		0.4	U	
2-HEXANONE		0.48	U		0.48	U		0.48	U		0.48	U	
4-CHLOROTOLUENE		0.29	U		0.29	U		0.29	U		0.29	U	
4-ISOPROPYLTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		0.94	U		0.94	U		0.94	U		0.94	U	
BENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOCHLOROMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMODICHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMOFORM		0.56	U		0.56	U		0.56	U		0.56	U	
BROMOMETHANE		0.44	U		0.44	U		0.44	U		0.44	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW41A-030716			MSA-SW41B-030716			MSA-SW41C-030716			MSA-SW41D-030716		
	LAB_ID	240-61849-17			240-61849-18			240-61849-19			240-61849-20		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.28	U		0.28	U		0.28	U		0.28	U	
1,1,1-TRICHLOROETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,1,2,2-TETRACHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
1,1-DICHLOROETHENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROPROPENE		0.42	U		0.42	U		0.42	U		0.42	U	
1,2,3-TRICHLOROBENZENE		0.37	U		0.37	U		0.37	U		0.37	U	
1,2,3-TRICHLOROPROPANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,2,3-TRIMETHYLBENZENE		0.47	U		0.47	U		0.47	U		0.47	U	
1,2,4-TRICHLOROBENZENE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2,4-TRIMETHYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.82	U		0.82	U		0.82	U		0.82	U	
1,2-DIBROMOETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2-DICHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
1,2-DICHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,2-DICHLOROPROPANE		0.25	U		0.25	U		0.25	U		0.25	U	
1,3-DICHLOROBENZENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,3-DICHLOROPROPANE		0.19	U		0.19	U		0.19	U		0.19	U	
1,4-DICHLOROBENZENE		0.27	U		0.27	U		0.27	U		0.27	U	
2,2-DICHLOROPROPANE		0.26	U		0.26	U		0.26	U		0.26	U	
2-BUTANONE		0.53	U		0.53	U		0.53	U		0.53	U	
2-CHLOROETHYL VINYL ETHER		0.59	UR	Q	0.59	UR	Q	0.59	UR	Q	0.59	UR	Q
2-CHLOROTOLUENE		0.4	U		0.4	U		0.4	U		0.4	U	
2-HEXANONE		0.48	U		0.48	U		0.48	U		0.48	U	
4-CHLOROTOLUENE		0.29	U		0.29	U		0.29	U		0.29	U	
4-ISOPROPYLTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		0.94	U		0.94	U		0.94	U		0.94	U	
BENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOCHLOROMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMODICHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMOFORM		0.56	U		0.56	U		0.56	U		0.56	U	
BROMOMETHANE		0.44	U		0.44	U		0.44	U		0.44	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW42A-030716			MSA-SW42B-030716			MSA-SW42C-030716			MSA-SW42D-030716		
	LAB_ID	240-61849-21			240-61849-22			240-61849-23			240-61849-24		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.28 U			0.28 U			0.28 U			0.28 U		
1,1,1-TRICHLOROETHANE		0.44 U			0.44 U			0.44 U			0.44 U		
1,1,2,2-TETRACHLOROETHANE		0.22 U			0.22 U			0.22 U			0.22 U		
1,1,2-TRICHLOROTRIFLUOROETHANE		0.45 U			0.45 U			0.45 U			0.45 U		
1,1-DICHLOROETHANE		0.3 U			0.3 U			0.3 U			0.3 U		
1,1-DICHLOROETHENE		0.45 U			0.45 U			0.45 U			0.45 U		
1,1-DICHLOROPROPENE		0.42 U			0.42 U			0.42 U			0.42 U		
1,2,3-TRICHLOROBENZENE		0.37 U			0.37 U			0.37 U			0.37 U		
1,2,3-TRICHLOROPROPANE		0.44 U			0.44 U			0.44 U			0.44 U		
1,2,3-TRIMETHYLBENZENE		0.47 U			0.47 U			0.47 U			0.47 U		
1,2,4-TRICHLOROBENZENE		0.32 U			0.32 U			0.32 U			0.32 U		
1,2,4-TRIMETHYLBENZENE		0.41 U			0.41 U			0.41 U			0.41 U		
1,2-DIBROMO-3-CHLOROPROPANE		0.82 U			0.82 U			0.82 U			0.82 U		
1,2-DIBROMOETHANE		0.32 U			0.32 U			0.32 U			0.32 U		
1,2-DICHLOROBENZENE		0.25 U			0.25 U			0.25 U			0.25 U		
1,2-DICHLOROETHANE		0.23 U			0.23 U			0.23 U			0.23 U		
1,2-DICHLOROPROPANE		0.25 U			0.25 U			0.25 U			0.25 U		
1,3-DICHLOROBENZENE		0.19 U			0.19 U			0.19 U			0.19 U		
1,3-DICHLOROPROPANE		0.19 U			0.19 U			0.19 U			0.19 U		
1,4-DICHLOROBENZENE		0.27 U			0.27 U			0.27 U			0.27 U		
2,2-DICHLOROPROPANE		0.26 U			0.26 U			0.26 U			0.26 U		
2-BUTANONE		0.53 U			0.53 U			0.53 U			0.53 U		
2-CHLOROETHYL VINYL ETHER		0.59 UR	Q		0.59 UR	Q		0.59 UR	Q		0.59 UR	Q	
2-CHLOROTOLUENE		0.4 U			0.4 U			0.4 U			0.4 U		
2-HEXANONE		0.48 U			0.48 U			0.48 U			0.48 U		
4-CHLOROTOLUENE		0.29 U			0.29 U			0.29 U			0.29 U		
4-ISOPROPYLTOLUENE		0.43 U			0.43 U			0.43 U			0.43 U		
4-METHYL-2-PENTANONE		0.99 U			0.99 U			0.99 U			0.99 U		
ACETONE		1.4 J	P		0.94 U			0.94 U			0.94 U		
BENZENE		0.35 U			0.35 U			0.35 U			0.35 U		
BROMOBENZENE		0.35 U			0.35 U			0.35 U			0.35 U		
BROMOCHLOROMETHANE		0.5 U			0.5 U			0.5 U			0.5 U		
BROMODICHLOROMETHANE		0.29 U			0.29 U			0.29 U			0.29 U		
BROMOFORM		0.56 U			0.56 U			0.56 U			0.56 U		
BROMOMETHANE		0.44 U			0.44 U			0.44 U			0.44 U		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW43A-030716			MSA-SW43B-030716			MSA-SW43C-030716			MSA-SW43D-030716		
	LAB_ID	240-61849-25			240-61849-26			240-61849-27			240-61849-28		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.28	U		0.28	U		0.28	U		0.28	U	
1,1,1-TRICHLOROETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,1,2,2-TETRACHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
1,1-DICHLOROETHENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROPROPENE		0.42	U		0.42	U		0.42	U		0.42	U	
1,2,3-TRICHLOROBENZENE		0.37	U		0.37	U		0.37	U		0.37	U	
1,2,3-TRICHLOROPROPANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,2,3-TRIMETHYLBENZENE		0.47	U		0.47	U		0.47	U		0.47	U	
1,2,4-TRICHLOROBENZENE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2,4-TRIMETHYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.82	U		0.82	U		0.82	U		0.82	U	
1,2-DIBROMOETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2-DICHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
1,2-DICHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,2-DICHLOROPROPANE		0.25	U		0.25	U		0.25	U		0.25	U	
1,3-DICHLOROBENZENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,3-DICHLOROPROPANE		0.19	U		0.19	U		0.19	U		0.19	U	
1,4-DICHLOROBENZENE		0.27	U		0.27	U		0.27	U		0.27	U	
2,2-DICHLOROPROPANE		0.26	U		0.26	U		0.26	U		0.26	U	
2-BUTANONE		0.53	U		0.53	UJ	C	0.53	UJ	C	0.53	UJ	C
2-CHLOROETHYL VINYL ETHER		0.59	UR	Q	0.59	UR	Q	0.59	UR	Q	0.59	UR	Q
2-CHLOROTOLUENE		0.4	U		0.4	U		0.4	U		0.4	U	
2-HEXANONE		0.48	U		0.48	U		0.48	U		0.48	U	
4-CHLOROTOLUENE		0.29	U		0.29	U		0.29	U		0.29	U	
4-ISOPROPYLTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		1.3	J	P	0.94	U		0.94	U		0.94	U	
BENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOCHLOROMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMODICHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMOFORM		0.56	U		0.56	U		0.56	U		0.56	U	
BROMOMETHANE		0.44	U		0.44	UJ	C	0.44	UJ	C	0.44	UJ	C

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW44A-030716			MSA-SW44B-030716			MSA-SW44C-030716			MSA-SW44D-030716		
	LAB_ID	240-61849-29			240-61849-30			240-61849-31			240-61849-32		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.28	U		0.28	U		0.28	U		0.28	U	
1,1,1-TRICHLOROETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,1,2,2-TETRACHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
1,1-DICHLOROETHENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROPROPENE		0.42	U		0.42	U		0.42	U		0.42	U	
1,2,3-TRICHLOROBENZENE		0.37	U		0.37	U		0.37	U		0.37	U	
1,2,3-TRICHLOROPROPANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,2,3-TRIMETHYLBENZENE		0.47	U		0.47	U		0.47	U		0.47	U	
1,2,4-TRICHLOROBENZENE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2,4-TRIMETHYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.82	U		0.82	U		0.82	U		0.82	U	
1,2-DIBROMOETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2-DICHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
1,2-DICHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,2-DICHLOROPROPANE		0.25	U		0.25	U		0.25	U		0.25	U	
1,3-DICHLOROBENZENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,3-DICHLOROPROPANE		0.19	U		0.19	U		0.19	U		0.19	U	
1,4-DICHLOROBENZENE		0.27	U		0.27	U		0.27	U		0.27	U	
2,2-DICHLOROPROPANE		0.26	U		0.26	U		0.26	U		0.26	U	
2-BUTANONE		0.53	UJ	C	0.53	UJ	C	0.53	UJ	C	0.53	UJ	C
2-CHLOROETHYL VINYL ETHER		0.59	UR	Q	0.59	UR	Q	0.59	UR	Q	0.59	UR	Q
2-CHLOROTOLUENE		0.4	U		0.4	U		0.4	U		0.4	U	
2-HEXANONE		0.48	U		0.48	U		0.48	U		0.48	U	
4-CHLOROTOLUENE		0.29	U		0.29	U		0.29	U		0.29	U	
4-ISOPROPYLTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		0.94	U		0.94	U		0.99	J	P	0.94	U	
BENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOCHLOROMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMODICHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMOFORM		0.56	U		0.56	U		0.56	U		0.56	U	
BROMOMETHANE		0.44	UJ	C	0.44	UJ	C	0.44	UJ	C	0.44	UJ	C

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW45A-030716			MSA-SW45B-030716			MSA-SW45C-030716			MSA-SW45D-030716		
	LAB_ID	240-61849-33			240-61849-34			240-61849-35			240-61849-36		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.28	U		0.28	U		0.28	U		0.28	U	
1,1,1-TRICHLOROETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,1,2,2-TETRACHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
1,1-DICHLOROETHENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROPROPENE		0.42	U		0.42	U		0.42	U		0.42	U	
1,2,3-TRICHLOROBENZENE		0.37	U		0.37	U		0.37	U		0.37	U	
1,2,3-TRICHLOROPROPANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,2,3-TRIMETHYLBENZENE		0.47	U		0.47	U		0.47	U		0.47	U	
1,2,4-TRICHLOROBENZENE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2,4-TRIMETHYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.82	U		0.82	U		0.82	U		0.82	U	
1,2-DIBROMOETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2-DICHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
1,2-DICHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,2-DICHLOROPROPANE		0.25	U		0.25	U		0.25	U		0.25	U	
1,3-DICHLOROBENZENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,3-DICHLOROPROPANE		0.19	U		0.19	U		0.19	U		0.19	U	
1,4-DICHLOROBENZENE		0.27	U		0.27	U		0.27	U		0.27	U	
2,2-DICHLOROPROPANE		0.26	U		0.26	U		0.26	U		0.26	U	
2-BUTANONE		0.53	UJ	C	0.53	UJ	C	0.53	UJ	C	0.53	UJ	C
2-CHLOROETHYL VINYL ETHER		0.59	UR	Q	0.59	UR	Q	0.59	UR	Q	0.59	UR	Q
2-CHLOROTOLUENE		0.4	U		0.4	U		0.4	U		0.4	U	
2-HEXANONE		0.48	U		0.48	U		0.48	U		0.48	U	
4-CHLOROTOLUENE		0.29	U		0.29	U		0.29	U		0.29	U	
4-ISOPROPYLTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		0.94	U		0.94	U		0.94	U		0.94	U	
BENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOCHLOROMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMODICHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMOFORM		0.56	U		0.56	U		0.56	U		0.56	U	
BROMOMETHANE		0.44	UJ	C	0.44	UJ	C	0.44	UJ	C	0.44	UJ	C

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW46A-030716			MSA-SW47A-030716			MSA-SW48A-030716			MSA-SW49A-030716		
	LAB_ID	240-61849-42			240-61849-43			240-61849-44			240-61849-45		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.28	U		0.28	U		0.28	U		0.28	U	
1,1,1-TRICHLOROETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,1,2,2-TETRACHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
1,1-DICHLOROETHENE		0.45	U		0.45	U		0.45	U		0.45	U	
1,1-DICHLOROPROPENE		0.42	U		0.42	U		0.42	U		0.42	U	
1,2,3-TRICHLOROBENZENE		0.37	U		0.37	U		0.37	U		0.37	U	
1,2,3-TRICHLOROPROPANE		0.44	U		0.44	U		0.44	U		0.44	U	
1,2,3-TRIMETHYLBENZENE		0.47	U		0.47	U		0.47	U		0.47	U	
1,2,4-TRICHLOROBENZENE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2,4-TRIMETHYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.82	U		0.82	U		0.82	U		0.82	U	
1,2-DIBROMOETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
1,2-DICHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
1,2-DICHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,2-DICHLOROPROPANE		0.25	U		0.25	U		0.25	U		0.25	U	
1,3-DICHLOROBENZENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,3-DICHLOROPROPANE		0.19	U		0.19	U		0.19	U		0.19	U	
1,4-DICHLOROBENZENE		0.27	U		0.37	J	P	0.87	J	P	0.27	U	
2,2-DICHLOROPROPANE		0.26	U		0.26	U		0.26	U		0.26	U	
2-BUTANONE		0.53	UJ	C	0.53	UJ	C	0.53	UJ	C	0.53	UJ	C
2-CHLOROETHYL VINYL ETHER		0.59	UR	Q	0.59	UR	Q	0.59	UR	Q	0.59	UR	Q
2-CHLOROTOLUENE		0.4	U		0.4	U		0.4	U		0.4	U	
2-HEXANONE		0.48	U		0.48	U		0.48	U		0.48	U	
4-CHLOROTOLUENE		0.29	U		0.29	U		0.29	U		0.29	U	
4-ISOPROPYLTOLUENE		0.43	U		0.43	U		0.43	U		0.43	U	
4-METHYL-2-PENTANONE		0.99	U		0.99	U		0.99	U		0.99	U	
ACETONE		0.94	U		0.94	U		0.94	U		0.94	U	
BENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
BROMOCHLOROMETHANE		0.5	U		0.5	U		0.5	U		0.5	U	
BROMODICHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMOFORM		0.56	U		0.56	U		0.56	U		0.56	U	
BROMOMETHANE		0.44	UJ	C	0.44	UJ	C	0.44	UJ	C	0.44	UJ	C

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	TB-030716		
	LAB_ID	240-61849-41		
	SAMP_DATE	3/7/2016		
	QC_TYPE	TB		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.28	U	
1,1,1-TRICHLOROETHANE		0.44	U	
1,1,2,2-TETRACHLOROETHANE		0.22	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.45	U	
1,1-DICHLOROETHANE		0.3	U	
1,1-DICHLOROETHENE		0.45	U	
1,1-DICHLOROPROPENE		0.42	U	
1,2,3-TRICHLOROBENZENE		0.37	U	
1,2,3-TRICHLOROPROPANE		0.44	U	
1,2,3-TRIMETHYLBENZENE		0.47	U	
1,2,4-TRICHLOROBENZENE		0.32	U	
1,2,4-TRIMETHYLBENZENE		0.41	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.82	U	
1,2-DIBROMOETHANE		0.32	U	
1,2-DICHLOROBENZENE		0.25	U	
1,2-DICHLOROETHANE		0.23	U	
1,2-DICHLOROPROPANE		0.25	U	
1,3-DICHLOROBENZENE		0.19	U	
1,3-DICHLOROPROPANE		0.19	U	
1,4-DICHLOROBENZENE		0.27	U	
2,2-DICHLOROPROPANE		0.26	U	
2-BUTANONE		0.53	UJ	C
2-CHLOROETHYL VINYL ETHER		0.59	UR	Q
2-CHLOROTOLUENE		0.4	U	
2-HEXANONE		0.48	U	
4-CHLOROTOLUENE		0.29	U	
4-ISOPROPYLTOLUENE		0.43	U	
4-METHYL-2-PENTANONE		0.99	U	
ACETONE		0.94	U	
BENZENE		0.35	U	
BROMOBENZENE		0.35	U	
BROMOCHLOROMETHANE		0.5	U	
BROMODICHLOROMETHANE		0.29	U	
BROMOFORM		0.56	U	
BROMOMETHANE		0.44	UJ	C

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	EL-SW01A-030716			EL-SW01B-030716			EL-SW01C-030716			EL-SW01D-030716		
	LAB_ID	240-61849-37			240-61849-38			240-61849-39			240-61849-40		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.38	U		0.38	U		0.38	U		0.38	U	
CARBON TETRACHLORIDE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
CHLORODIBROMOMETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
CHLOROFORM		0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROMETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
CIS-1,2-DICHLOROETHENE		0.26	U		0.26	U		0.26	U		0.26	U	
CIS-1,3-DICHLOROPROPENE		0.46	U		0.46	U		0.46	U		0.46	U	
DIBROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	
DICHLORODIFLUOROMETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
DIISOPROPYL ETHER		0.5	U		0.5	U		0.5	U		0.5	U	
ETHYL TERT-BUTYL ETHER		0.23	U		0.23	U		0.23	U		0.23	U	
ETHYLBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
HEXACHLOROBUTADIENE		0.35	U		0.35	U		0.35	U		0.35	U	
ISOPROPYLBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
M+P-XYLENES		0.24	U		0.26	J	P	0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.2	U		0.2	U		0.2	U		0.2	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.45	U		0.45	U		0.45	U		0.45	U	
N-BUTYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
N-PROPYLBENZENE		0.4	U		0.4	U		0.4	U		0.4	U	
O-XYLENE		0.25	U		0.25	U		0.25	U		0.25	U	
SEC-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.3	U		0.3	U		0.3	U		0.3	U	
TERT-BUTYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
TERTIARY-BUTYL ALCOHOL		4.9	U		4.9	U		4.9	U		4.9	U	
TETRACHLOROETHENE		0.31	U		0.31	U		0.31	U		0.31	U	
TOLUENE		0.23	U		0.43	J	P	0.23	U		0.23	U	
TOTAL XYLENES		0.52	U		0.52	U		0.52	U		0.52	U	
TRANS-1,2-DICHLOROETHENE		0.3	U		0.3	U		0.3	U		0.3	U	
TRANS-1,3-DICHLOROPROPENE		0.56	U		0.56	U		0.56	U		0.56	U	
TRICHLOROETHENE		0.22	U		0.22	U		0.22	U		0.22	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW37A-030716			MSA-SW37B-030716			MSA-SW37C-030716			MSA-SW37D-030716		
	LAB_ID	240-61849-1			240-61849-2			240-61849-3			240-61849-4		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.38	U		0.38	U		0.38	U		0.38	U	
CARBON TETRACHLORIDE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
CHLORODIBROMOMETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
CHLOROFORM		0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROMETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
CIS-1,2-DICHLOROETHENE		2.9			2.7			1.1			0.73	J	P
CIS-1,3-DICHLOROPROPENE		0.46	U		0.46	U		0.46	U		0.46	U	
DIBROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	
DICHLORODIFLUOROMETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
DIISOPROPYL ETHER		0.5	U		0.5	U		0.5	U		0.5	U	
ETHYL TERT-BUTYL ETHER		0.23	U		0.23	U		0.23	U		0.23	U	
ETHYLBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
HEXACHLOROBUTADIENE		0.35	U		0.35	U		0.35	U		0.35	U	
ISOPROPYLBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.2	U		0.2	U		0.2	U		0.2	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.45	U		0.45	U		0.45	U		0.45	U	
N-BUTYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
N-PROPYLBENZENE		0.4	U		0.4	U		0.4	U		0.4	U	
O-XYLENE		0.25	U		0.25	U		0.25	U		0.25	U	
SEC-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.3	U		0.3	U		0.3	U		0.3	U	
TERT-BUTYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
TERTIARY-BUTYL ALCOHOL		4.9	U		4.9	U		4.9	U		4.9	U	
TETRACHLOROETHENE		0.31	U		0.31	U		0.31	U		0.31	U	
TOLUENE		0.23	U		0.23	U		0.23	U		0.23	U	
TOTAL XYLENES		0.52	U		0.52	U		0.52	U		0.52	U	
TRANS-1,2-DICHLOROETHENE		0.3	U		0.3	U		0.3	U		0.3	U	
TRANS-1,3-DICHLOROPROPENE		0.56	U		0.56	U		0.56	U		0.56	U	
TRICHLOROETHENE		0.99	J	P	3.1			1.4			1		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW38A-030716			MSA-SW38B-030716			MSA-SW38C-030716			MSA-SW38D-030716		
	LAB_ID	240-61849-5			240-61849-6			240-61849-7			240-61849-8		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.38	U		0.38	U		0.38	U		0.38	U	
CARBON TETRACHLORIDE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
CHLORODIBROMOMETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
CHLOROFORM		0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROMETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
CIS-1,2-DICHLOROETHENE		9.5			3.3			1.2			0.3	J	P
CIS-1,3-DICHLOROPROPENE		0.46	U		0.46	U		0.46	U		0.46	U	
DIBROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	
DICHLORODIFLUOROMETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
DIISOPROPYL ETHER		0.5	U		0.5	U		0.5	U		0.5	U	
ETHYL TERT-BUTYL ETHER		0.23	U		0.23	U		0.23	U		0.23	U	
ETHYLBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
HEXACHLOROBUTADIENE		0.35	U		0.35	U		0.35	U		0.35	U	
ISOPROPYLBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
M+P-XYLENES		0.54	J	P	0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.2	U		0.2	U		0.2	U		0.2	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.45	U		0.45	U		0.45	U		0.45	U	
N-BUTYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
N-PROPYLBENZENE		0.4	U		0.4	U		0.4	U		0.4	U	
O-XYLENE		0.25	U		0.25	U		0.25	U		0.25	U	
SEC-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.3	U		0.3	U		0.3	U		0.3	U	
TERT-BUTYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
TERTIARY-BUTYL ALCOHOL		4.9	U		4.9	U		4.9	U		4.9	U	
TETRACHLOROETHENE		0.31	U		0.31	U		0.31	U		0.31	U	
TOLUENE		0.23	U		0.23	U		0.23	U		0.23	U	
TOTAL XYLENES		0.54	J	P	0.52	U		0.52	U		0.52	U	
TRANS-1,2-DICHLOROETHENE		0.3	U		0.3	U		0.3	U		0.3	U	
TRANS-1,3-DICHLOROPROPENE		0.56	U		0.56	U		0.56	U		0.56	U	
TRICHLOROETHENE		6.5			4			2.1			0.42	J	P

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW39A-030716			MSA-SW39B-030716			MSA-SW39C-030716			MSA-SW39D-030716		
	LAB_ID	240-61849-9			240-61849-10			240-61849-11			240-61849-12		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.38	U		0.38	U		0.38	U		0.38	U	
CARBON TETRACHLORIDE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
CHLORODIBROMOMETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
CHLOROFORM		0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROMETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
CIS-1,2-DICHLOROETHENE		0.26	U		0.26	U		0.26	U		0.26	U	
CIS-1,3-DICHLOROPROPENE		0.46	U		0.46	U		0.46	U		0.46	U	
DIBROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	
DICHLORODIFLUOROMETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
DIISOPROPYL ETHER		0.5	U		0.5	U		0.5	U		0.5	U	
ETHYL TERT-BUTYL ETHER		0.23	U		0.23	U		0.23	U		0.23	U	
ETHYLBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
HEXACHLOROBUTADIENE		0.35	U		0.35	U		0.35	U		0.35	U	
ISOPROPYLBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.2	U		0.2	U		0.2	U		0.2	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.45	U		0.45	U		0.45	U		0.45	U	
N-BUTYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
N-PROPYLBENZENE		0.4	U		0.4	U		0.4	U		0.4	U	
O-XYLENE		0.25	U		0.25	U		0.25	U		0.25	U	
SEC-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.3	U		0.3	U		0.3	U		0.3	U	
TERT-BUTYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
TERTIARY-BUTYL ALCOHOL		4.9	U		4.9	U		4.9	U		4.9	U	
TETRACHLOROETHENE		0.31	U		0.31	U		0.31	U		0.31	U	
TOLUENE		0.23	U		0.23	U		0.23	U		0.23	U	
TOTAL XYLENES		0.52	U		0.52	U		0.52	U		0.52	U	
TRANS-1,2-DICHLOROETHENE		0.3	U		0.3	U		0.3	U		0.3	U	
TRANS-1,3-DICHLOROPROPENE		0.56	U		0.56	U		0.56	U		0.56	U	
TRICHLOROETHENE		0.22	U		0.22	U		0.23	J	P	0.22	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW40A-030716			MSA-SW40B-030716			MSA-SW40C-030716			MSA-SW40D-030716		
	LAB_ID	240-61849-13			240-61849-14			240-61849-15			240-61849-16		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.38	U		0.38	U		0.38	U		0.38	U	
CARBON TETRACHLORIDE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
CHLORODIBROMOMETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
CHLOROFORM		0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROMETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
CIS-1,2-DICHLOROETHENE		8.7			2.8			1.5			0.59	J	P
CIS-1,3-DICHLOROPROPENE		0.46	U		0.46	U		0.46	U		0.46	U	
DIBROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	
DICHLORODIFLUOROMETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
DIISOPROPYL ETHER		0.5	U		0.5	U		0.5	U		0.5	U	
ETHYL TERT-BUTYL ETHER		0.23	U		0.23	U		0.23	U		0.23	U	
ETHYLBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
HEXACHLOROBUTADIENE		0.35	U		0.35	U		0.35	U		0.35	U	
ISOPROPYLBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
M+P-XYLENES		0.89	J	P	0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.2	U		0.2	U		0.2	U		0.2	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.45	U		0.45	U		0.45	U		0.45	U	
N-BUTYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
N-PROPYLBENZENE		0.4	U		0.4	U		0.4	U		0.4	U	
O-XYLENE		0.25	U		0.25	U		0.25	U		0.25	U	
SEC-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.3	U		0.3	U		0.3	U		0.3	U	
TERT-BUTYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
TERTIARY-BUTYL ALCOHOL		4.9	U		4.9	U		4.9	U		4.9	U	
TETRACHLOROETHENE		0.31	U		0.31	U		0.31	U		0.31	U	
TOLUENE		0.23	U		0.23	U		0.23	U		0.23	U	
TOTAL XYLENES		0.89	J	P	0.52	U		0.52	U		0.52	U	
TRANS-1,2-DICHLOROETHENE		0.3	U		0.3	U		0.3	U		0.3	U	
TRANS-1,3-DICHLOROPROPENE		0.56	U		0.56	U		0.56	U		0.56	U	
TRICHLOROETHENE		5.2			3.4			2.8			1.1		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW41A-030716			MSA-SW41B-030716			MSA-SW41C-030716			MSA-SW41D-030716		
	LAB_ID	240-61849-17			240-61849-18			240-61849-19			240-61849-20		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.38	U		0.38	U		0.38	U		0.38	U	
CARBON TETRACHLORIDE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
CHLORODIBROMOMETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
CHLOROFORM		0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROMETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
CIS-1,2-DICHLOROETHENE		5.9			1.2			0.72	J	P	0.36	J	P
CIS-1,3-DICHLOROPROPENE		0.46	U		0.46	U		0.46	U		0.46	U	
DIBROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	
DICHLORODIFLUOROMETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
DIISOPROPYL ETHER		0.5	U		0.5	U		0.5	U		0.5	U	
ETHYL TERT-BUTYL ETHER		0.23	U		0.23	U		0.23	U		0.23	U	
ETHYLBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
HEXACHLOROBUTADIENE		0.35	U		0.35	U		0.35	U		0.35	U	
ISOPROPYLBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.2	U		0.2	U		0.2	U		0.2	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.45	U		0.45	U		0.45	U		0.45	U	
N-BUTYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
N-PROPYLBENZENE		0.4	U		0.4	U		0.4	U		0.4	U	
O-XYLENE		0.25	U		0.25	U		0.25	U		0.25	U	
SEC-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.3	U		0.3	U		0.3	U		0.3	U	
TERT-BUTYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
TERTIARY-BUTYL ALCOHOL		4.9	U		4.9	U		4.9	U		4.9	U	
TETRACHLOROETHENE		0.31	U		0.31	U		0.31	U		0.31	U	
TOLUENE		0.23	U		0.23	U		0.23	U		0.23	U	
TOTAL XYLENES		0.52	U		0.52	U		0.52	U		0.52	U	
TRANS-1,2-DICHLOROETHENE		0.3	U		0.3	U		0.3	U		0.3	U	
TRANS-1,3-DICHLOROPROPENE		0.56	U		0.56	U		0.56	U		0.56	U	
TRICHLOROETHENE		4.1			1.9			1.2			0.52	J	P

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW42A-030716			MSA-SW42B-030716			MSA-SW42C-030716			MSA-SW42D-030716		
	LAB_ID	240-61849-21			240-61849-22			240-61849-23			240-61849-24		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.38	U		0.38	U		0.38	U		0.38	U	
CARBON TETRACHLORIDE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
CHLORODIBROMOMETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
CHLOROFORM		0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROMETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
CIS-1,2-DICHLOROETHENE		1.9			2.8			2.9			1		
CIS-1,3-DICHLOROPROPENE		0.46	U		0.46	U		0.46	U		0.46	U	
DIBROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	
DICHLORODIFLUOROMETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
DIISOPROPYL ETHER		0.5	U		0.5	U		0.5	U		0.5	U	
ETHYL TERT-BUTYL ETHER		0.23	U		0.23	U		0.23	U		0.23	U	
ETHYLBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
HEXACHLOROBUTADIENE		0.35	U		0.35	U		0.35	U		0.35	U	
ISOPROPYLBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.2	U		0.2	U		0.2	U		0.2	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.45	U		0.45	U		0.45	U		0.45	U	
N-BUTYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
N-PROPYLBENZENE		0.4	U		0.4	U		0.4	U		0.4	U	
O-XYLENE		0.25	U		0.25	U		0.25	U		0.25	U	
SEC-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.3	U		0.3	U		0.3	U		0.3	U	
TERT-BUTYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
TERTIARY-BUTYL ALCOHOL		4.9	UR	C	4.9	UR	C	4.9	UR	C	4.9	UR	C
TETRACHLOROETHENE		0.31	U		0.31	U		0.31	U		0.31	U	
TOLUENE		0.23	U		0.23	U		0.23	U		0.23	U	
TOTAL XYLENES		0.52	U		0.52	U		0.52	U		0.52	U	
TRANS-1,2-DICHLOROETHENE		0.3	U		0.3	U		0.3	U		0.3	U	
TRANS-1,3-DICHLOROPROPENE		0.56	U		0.56	U		0.56	U		0.56	U	
TRICHLOROETHENE		1.1			3.6			5.5			1.6		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW43A-030716			MSA-SW43B-030716			MSA-SW43C-030716			MSA-SW43D-030716		
	LAB_ID	240-61849-25			240-61849-26			240-61849-27			240-61849-28		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.38	U		0.38	U		0.38	U		0.38	U	
CARBON TETRACHLORIDE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
CHLORODIBROMOMETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
CHLOROFORM		0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROMETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
CIS-1,2-DICHLOROETHENE		0.46	J	P	0.26	J	P	0.89	J	P	0.33	J	P
CIS-1,3-DICHLOROPROPENE		0.46	U		0.46	U		0.46	U		0.46	U	
DIBROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	
DICHLORODIFLUOROMETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
DIISOPROPYL ETHER		0.5	U		0.5	U		0.5	U		0.5	U	
ETHYL TERT-BUTYL ETHER		0.23	U		0.23	U		0.23	U		0.23	U	
ETHYLBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
HEXACHLOROBUTADIENE		0.35	U		0.35	U		0.35	U		0.35	U	
ISOPROPYLBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.2	U		0.2	U		0.2	U		0.2	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.45	U		0.45	U		0.45	U		0.45	U	
N-BUTYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
N-PROPYLBENZENE		0.4	U		0.4	U		0.4	U		0.4	U	
O-XYLENE		0.25	U		0.25	U		0.25	U		0.25	U	
SEC-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.3	U		0.3	U		0.3	U		0.3	U	
TERT-BUTYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
TERTIARY-BUTYL ALCOHOL		4.9	UR	C	4.9	U		4.9	U		4.9	U	
TETRACHLOROETHENE		0.31	U		0.31	U		0.31	U		0.31	U	
TOLUENE		0.23	U		0.28	J	P	0.23	U		0.23	U	
TOTAL XYLENES		0.52	U		0.52	U		0.52	U		0.52	U	
TRANS-1,2-DICHLOROETHENE		0.3	U		0.3	U		0.3	U		0.3	U	
TRANS-1,3-DICHLOROPROPENE		0.56	U		0.56	U		0.56	U		0.56	U	
TRICHLOROETHENE		0.46	J	P	0.34	J	P	1.3			0.49	J	P

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW44A-030716			MSA-SW44B-030716			MSA-SW44C-030716			MSA-SW44D-030716		
	LAB_ID	240-61849-29			240-61849-30			240-61849-31			240-61849-32		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.38	U		0.38	U		0.38	U		0.38	U	
CARBON TETRACHLORIDE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
CHLORODIBROMOMETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
CHLOROFORM		0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROMETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
CIS-1,2-DICHLOROETHENE		0.26	U		0.27	J	P	0.26	U		0.26	U	
CIS-1,3-DICHLOROPROPENE		0.46	U		0.46	U		0.46	U		0.46	U	
DIBROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	
DICHLORODIFLUOROMETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
DIISOPROPYL ETHER		0.5	U		0.5	U		0.5	U		0.5	U	
ETHYL TERT-BUTYL ETHER		0.23	U		0.23	U		0.23	U		0.23	U	
ETHYLBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
HEXACHLOROBUTADIENE		0.35	U		0.35	U		0.35	U		0.35	U	
ISOPROPYLBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.2	U		0.2	U		0.2	U		0.2	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.45	U		0.45	U		0.45	U		0.45	U	
N-BUTYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
N-PROPYLBENZENE		0.4	U		0.4	U		0.4	U		0.4	U	
O-XYLENE		0.25	U		0.25	U		0.25	U		0.25	U	
SEC-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.3	U		0.3	U		0.3	U		0.3	U	
TERT-BUTYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
TERTIARY-BUTYL ALCOHOL		4.9	U		4.9	U		4.9	U		4.9	U	
TETRACHLOROETHENE		0.31	U		0.31	U		0.31	U		0.31	U	
TOLUENE		0.23	U		0.23	U		0.23	U		0.23	U	
TOTAL XYLENES		0.52	U		0.52	U		0.52	U		0.52	U	
TRANS-1,2-DICHLOROETHENE		0.3	U		0.3	U		0.3	U		0.3	U	
TRANS-1,3-DICHLOROPROPENE		0.56	U		0.56	U		0.56	U		0.56	U	
TRICHLOROETHENE		0.22	U		0.38	J	P	0.22	U		0.22	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW45A-030716			MSA-SW45B-030716			MSA-SW45C-030716			MSA-SW45D-030716		
	LAB_ID	240-61849-33			240-61849-34			240-61849-35			240-61849-36		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.38	U		0.38	U		0.38	U		0.38	U	
CARBON TETRACHLORIDE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
CHLORODIBROMOMETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
CHLOROFORM		0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROMETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
CIS-1,2-DICHLOROETHENE		0.26	U		0.26	U		0.26	U		0.26	U	
CIS-1,3-DICHLOROPROPENE		0.46	U		0.46	U		0.46	U		0.46	U	
DIBROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	
DICHLORODIFLUOROMETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
DIISOPROPYL ETHER		0.5	U		0.5	U		0.5	U		0.5	U	
ETHYL TERT-BUTYL ETHER		0.23	U		0.23	U		0.23	U		0.23	U	
ETHYLBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
HEXACHLOROBUTADIENE		0.35	U		0.35	U		0.35	U		0.35	U	
ISOPROPYLBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.2	U		0.2	U		0.2	U		0.2	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.45	U		0.45	U		0.45	U		0.45	U	
N-BUTYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
N-PROPYLBENZENE		0.4	U		0.4	U		0.4	U		0.4	U	
O-XYLENE		0.25	U		0.25	U		0.25	U		0.25	U	
SEC-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.3	U		0.3	U		0.3	U		0.3	U	
TERT-BUTYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
TERTIARY-BUTYL ALCOHOL		4.9	U		4.9	U		4.9	U		4.9	U	
TETRACHLOROETHENE		0.31	U		0.31	U		0.31	U		0.31	U	
TOLUENE		0.23	U		0.23	U		0.23	U		0.23	U	
TOTAL XYLENES		0.52	U		0.52	U		0.52	U		0.52	U	
TRANS-1,2-DICHLOROETHENE		0.3	U		0.3	U		0.3	U		0.3	U	
TRANS-1,3-DICHLOROPROPENE		0.56	U		0.56	U		0.56	U		0.56	U	
TRICHLOROETHENE		0.22	U		0.22	U		0.25	J	P	0.27	J	P

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW46A-030716			MSA-SW47A-030716			MSA-SW48A-030716			MSA-SW49A-030716		
	LAB_ID	240-61849-42			240-61849-43			240-61849-44			240-61849-45		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.38	U		0.38	U		0.38	U		0.38	U	
CARBON TETRACHLORIDE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLOROBENZENE		0.25	U		0.25	U		0.25	U		0.25	U	
CHLORODIBROMOMETHANE		0.43	U		0.43	U		0.43	U		0.43	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
CHLOROFORM		0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROMETHANE		0.44	U		0.44	U		0.44	U		0.44	U	
CIS-1,2-DICHLOROETHENE		3.8			10			14			2.9		
CIS-1,3-DICHLOROPROPENE		0.46	U		0.46	U		0.46	U		0.46	U	
DIBROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	
DICHLORODIFLUOROMETHANE		0.32	U		0.32	U		0.32	U		0.32	U	
DIISOPROPYL ETHER		0.5	U		0.5	U		0.5	U		0.5	U	
ETHYL TERT-BUTYL ETHER		0.23	U		0.23	U		0.23	U		0.23	U	
ETHYLBENZENE		0.25	U		0.49	J	P	0.25	U		0.25	U	
HEXACHLOROBUTADIENE		0.35	U		0.35	U		0.35	U		0.35	U	
ISOPROPYLBENZENE		0.35	U		0.35	U		0.35	U		0.35	U	
M+P-XYLENES		0.24	U		5.2			1.2	J	P	0.24	U	
METHYL TERT-BUTYL ETHER		0.2	U		0.2	U		0.2	U		0.2	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.45	U		0.45	U		0.45	U		0.45	U	
N-BUTYLBENZENE		0.31	U		0.31	U		0.31	U		0.31	U	
N-PROPYLBENZENE		0.4	U		0.4	U		0.4	U		0.4	U	
O-XYLENE		0.25	U		1			0.25	U		0.25	U	
SEC-BUTYLBENZENE		0.48	U		0.48	U		0.48	U		0.48	U	
STYRENE		0.45	U		0.45	U		0.45	U		0.45	U	
TERT-AMYL METHYL ETHER		0.3	U		0.3	U		0.3	U		0.3	U	
TERT-BUTYLBENZENE		0.41	U		0.41	U		0.41	U		0.41	U	
TERTIARY-BUTYL ALCOHOL		4.9	U		4.9	U		4.9	U		4.9	U	
TETRACHLOROETHENE		0.31	U		0.31	U		0.31	U		0.31	U	
TOLUENE		0.23	U		0.4	J	P	0.23	U		0.23	U	
TOTAL XYLENES		0.52	U		6.2			1.2	J	P	0.52	U	
TRANS-1,2-DICHLOROETHENE		0.3	U		0.3	U		0.3	U		0.3	U	
TRANS-1,3-DICHLOROPROPENE		0.56	U		0.56	U		0.56	U		0.56	U	
TRICHLOROETHENE		2.6			9.2			6.1			1.9		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	TB-030716		
	LAB_ID	240-61849-41		
	SAMP_DATE	3/7/2016		
	QC_TYPE	TB		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
CARBON DISULFIDE		0.38	U	
CARBON TETRACHLORIDE		0.43	U	
CHLOROBENZENE		0.25	U	
CHLORODIBROMOMETHANE		0.43	U	
CHLORODIFLUOROMETHANE		1	UJ	Q
CHLOROETHANE		0.32	U	
CHLOROFORM		0.25	U	
CHLOROMETHANE		0.44	U	
CIS-1,2-DICHLOROETHENE		0.26	U	
CIS-1,3-DICHLOROPROPENE		0.46	U	
DIBROMOMETHANE		0.42	U	
DICHLORODIFLUOROMETHANE		0.32	U	
DIISOPROPYL ETHER		0.5	U	
ETHYL TERT-BUTYL ETHER		0.23	U	
ETHYLBENZENE		0.25	U	
HEXACHLOROBUTADIENE		0.35	U	
ISOPROPYLBENZENE		0.35	U	
M+P-XYLENES		0.24	U	
METHYL TERT-BUTYL ETHER		0.2	U	
METHYLENE CHLORIDE		0.33	U	
NAPHTHALENE		0.45	U	
N-BUTYLBENZENE		0.31	U	
N-PROPYLBENZENE		0.4	U	
O-XYLENE		0.25	U	
SEC-BUTYLBENZENE		0.48	U	
STYRENE		0.45	U	
TERT-AMYL METHYL ETHER		0.3	U	
TERT-BUTYLBENZENE		0.41	U	
TERTIARY-BUTYL ALCOHOL		4.9	U	
TETRACHLOROETHENE		0.31	U	
TOLUENE		0.23	U	
TOTAL XYLENES		0.52	U	
TRANS-1,2-DICHLOROETHENE		0.3	U	
TRANS-1,3-DICHLOROPROPENE		0.56	U	
TRICHLOROETHENE		0.22	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	EL-SW01A-030716			EL-SW01B-030716			EL-SW01C-030716			EL-SW01D-030716		
	LAB_ID	240-61849-37			240-61849-38			240-61849-39			240-61849-40		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.49	U		0.49	U		0.49	U		0.49	U	
VINYL ACETATE		0.41	U		0.41	U		0.41	U		0.41	U	
VINYL CHLORIDE		0.29	U		0.29	U		0.29	U		0.29	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW37A-030716			MSA-SW37B-030716			MSA-SW37C-030716			MSA-SW37D-030716		
	LAB_ID	240-61849-1			240-61849-2			240-61849-3			240-61849-4		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.49	U		0.49	U		0.49	U		0.49	U	
VINYL ACETATE		0.41	U		0.41	U		0.41	U		0.41	U	
VINYL CHLORIDE		3			1.2			0.45	J	P	0.3	J	P

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW38A-030716			MSA-SW38B-030716			MSA-SW38C-030716			MSA-SW38D-030716		
	LAB_ID	240-61849-5			240-61849-6			240-61849-7			240-61849-8		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.49	U		0.49	U		0.49	U		0.49	U	
VINYL ACETATE		0.41	U		0.41	U		0.41	U		0.41	U	
VINYL CHLORIDE		11			0.56			0.32	J	P	0.29	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW39A-030716			MSA-SW39B-030716			MSA-SW39C-030716			MSA-SW39D-030716		
	LAB_ID	240-61849-9			240-61849-10			240-61849-11			240-61849-12		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.49	U		0.49	U		0.49	U		0.49	U	
VINYL ACETATE		0.41	U		0.41	U		0.41	U		0.41	U	
VINYL CHLORIDE		0.29	U		0.29	U		0.29	U		0.29	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW40A-030716			MSA-SW40B-030716			MSA-SW40C-030716			MSA-SW40D-030716		
	LAB_ID	240-61849-13			240-61849-14			240-61849-15			240-61849-16		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.49	U		0.49	U		0.49	U		0.49	U	
VINYL ACETATE		0.41	U		0.41	U		0.41	U		0.41	U	
VINYL CHLORIDE		5.6			0.56			0.38	J	P	0.29	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW41A-030716			MSA-SW41B-030716			MSA-SW41C-030716			MSA-SW41D-030716		
	LAB_ID	240-61849-17			240-61849-18			240-61849-19			240-61849-20		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.49	U		0.49	U		0.49	U		0.49	U	
VINYL ACETATE		0.41	U		0.41	U		0.41	U		0.41	U	
VINYL CHLORIDE		0.38	J	P	0.29	U		0.29	U		0.29	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW42A-030716			MSA-SW42B-030716			MSA-SW42C-030716			MSA-SW42D-030716		
	LAB_ID	240-61849-21			240-61849-22			240-61849-23			240-61849-24		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.49	U		0.49	U		0.49	U		0.49	U	
VINYL ACETATE		0.41	U		0.41	U		0.41	U		0.41	U	
VINYL CHLORIDE		1.4			0.96			0.86			0.34	J	P

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW43A-030716			MSA-SW43B-030716			MSA-SW43C-030716			MSA-SW43D-030716		
	LAB_ID	240-61849-25			240-61849-26			240-61849-27			240-61849-28		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.49	U		0.49	U		0.49	U		0.49	U	
VINYL ACETATE		0.41	U		0.41	U		0.41	U		0.41	U	
VINYL CHLORIDE		0.29	U		0.29	U		0.29	U		0.29	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW44A-030716			MSA-SW44B-030716			MSA-SW44C-030716			MSA-SW44D-030716		
	LAB_ID	240-61849-29			240-61849-30			240-61849-31			240-61849-32		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.49	U		0.49	U		0.49	U		0.49	U	
VINYL ACETATE		0.41	U		0.41	U		0.41	U		0.41	U	
VINYL CHLORIDE		0.29	U		0.29	U		0.29	U		0.29	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW45A-030716			MSA-SW45B-030716			MSA-SW45C-030716			MSA-SW45D-030716		
	LAB_ID	240-61849-33			240-61849-34			240-61849-35			240-61849-36		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.49	U		0.49	U		0.49	U		0.49	U	
VINYL ACETATE		0.41	U		0.41	U		0.41	U		0.41	U	
VINYL CHLORIDE		0.29	U		0.29	U		0.29	U		0.29	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW46A-030716			MSA-SW47A-030716			MSA-SW48A-030716			MSA-SW49A-030716		
	LAB_ID	240-61849-42			240-61849-43			240-61849-44			240-61849-45		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.49	U		0.49	U		0.49	U		0.49	U	
VINYL ACETATE		0.41	U		0.41	U		0.41	U		0.41	U	
VINYL CHLORIDE		0.29	U		2.1			11			1.6		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: OV MEDIA: WATER	NSAMPLE	TB-030716		
	LAB_ID	240-61849-41		
	SAMP_DATE	3/7/2016		
	QC_TYPE	TB		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.49	U	
VINYL ACETATE		0.41	U	
VINYL CHLORIDE		0.29	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW37A-030716			MSA-SW37B-030716			MSA-SW37C-030716			MSA-SW37D-030716		
	LAB_ID	240-61849-1			240-61849-2			240-61849-3			240-61849-4		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.2	J	P	0.22	J	P	0.16	J	P	0.16	J	P
ARSENIC		0.94	J	P	0.9	J	P	0.72	J	P	0.7	J	P
BARIUM		21			20			21			21		
BERYLLIUM		0.98	U	A	1.7			0.85	U	A	0.82	U	A
CADMIUM		0.26	U	A	0.28	U	A	0.14	U	A	0.096	U	A
CHROMIUM		0.6	U		0.6	U		0.6	U		0.6	U	
COBALT		0.66	U	A	0.67	U	A	0.42	U	A	0.32	U	A
COPPER		2.3			2.6			2.7			2		
LEAD		0.24	U	A	0.3	U	A	0.16	U	A	0.11	U	
MERCURY		0.09	U		0.09	U		0.09	U		0.09	U	
MOLYBDENUM		1.1	J	P	0.99	J	P	0.94	J	P	0.97	J	P
NICKEL		0.88	J	P	0.7	J	P	0.53	J	P	0.25	J	P
SELENIUM		1.4	U	A	1.2	U	A	0.55	U	A	0.59	U	A
SILVER		0.02	U		0.025	U	A	0.02	U		0.02	U	
THALLIUM		0.18	U	A	0.2	U	A	0.074	U		0.074	U	
TUNGSTEN		0.5	U		0.5	J	P	0.5	U		0.5	U	
VANADIUM		0.43	J	P	0.49	J	P	0.32	J	P	0.38	J	P
ZINC		7.3	U		7.3	U		7.3	U		7.3	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW38A-030716			MSA-SW38B-030716			MSA-SW38C-030716			MSA-SW38D-030716		
	LAB_ID	240-61849-5			240-61849-6			240-61849-7			240-61849-8		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.16	J	P	0.17	J	P	0.16	U		0.16	U	
ARSENIC		0.64	J	P	0.59	J	P	0.7	J	P	0.77	J	P
BARIUM		21			20			20			20		
BERYLLIUM		0.6	U	A	0.58	U	A	0.5	U	A	0.39	U	A
CADMIUM		0.18	U	A	0.12	U	A	0.071	U	A	0.061	U	
CHROMIUM		0.6	U		0.6	U		0.6	U		0.6	U	
COBALT		0.83	U	A	0.55	U	A	0.3	U	A	0.22	U	A
COPPER		2.5			2.1			1.8	J	P	1.8	J	P
LEAD		0.11	U		0.11	U		0.11	U		0.11	U	A
MERCURY		0.09	U		0.09	U		0.09	U		0.09	U	
MOLYBDENUM		0.93	J	P	0.96	J	P	0.98	J	P	0.89	J	P
NICKEL		0.69	J	P	0.25	J	P	0.23	U		0.23	U	
SELENIUM		0.47	U	A	0.25	U		0.7	U	A	0.72	U	A
SILVER		0.02	U		0.02	U		0.02	U		0.02	U	
THALLIUM		0.074	U		0.074	U		0.074	U		0.074	U	
TUNGSTEN		0.5	U		0.5	U		0.5	U		0.5	U	
VANADIUM		0.23	U		0.27	J	P	0.25	J	P	0.37	J	P
ZINC		7.3	U		7.3	U		7.3	U		7.3	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW39A-030716			MSA-SW39B-030716			MSA-SW39C-030716			MSA-SW39D-030716		
	LAB_ID	240-61849-9			240-61849-10			240-61849-11			240-61849-12		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.16	U		0.16	U		0.16	U		0.16	U	
ARSENIC		0.51	J	P	0.58	J	P	0.52	J	P	0.63	J	P
BARIUM		19			19			18			19		
BERYLLIUM		0.46	U	A	0.36	U	A	0.36	U	A	0.29	U	A
CADMIUM		0.061	U		0.061	U		0.061	U		0.061	U	
CHROMIUM		0.6	U		0.6	U		0.6	U		0.6	U	
COBALT		0.26	U	A	0.2	U	A	0.16	U	A	0.17	U	A
COPPER		2			1.8	J	P	2			2.1		
LEAD		0.11	U		0.11	U		0.11	U		0.11	U	
MERCURY		0.09	U		0.09	U		0.09	U		0.09	U	
MOLYBDENUM		0.86	J	P	0.86	J	P	0.84	J	P	0.84	J	P
NICKEL		0.34	J	P	0.32	J	P	0.29	J	P	0.23	U	
SELENIUM		0.43	U	A	0.65	U	A	0.44	U	A	0.43	U	A
SILVER		0.02	U		0.02	U		0.02	U		0.02	U	
THALLIUM		0.074	U		0.074	U		0.074	U		0.074	U	
TUNGSTEN		0.5	U		0.5	U		0.5	U		0.5	U	
VANADIUM		0.23	U		0.26	J	P	0.23	U		0.23	U	
ZINC		7.3	U		7.3	U		7.3	U		7.3	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW40A-030716			MSA-SW40B-030716			MSA-SW40C-030716			MSA-SW40D-030716		
	LAB_ID	240-61849-13			240-61849-14			240-61849-15			240-61849-16		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.16	U		0.16	U		0.16	U		0.16	U	
ARSENIC		0.65	J	P	0.61	J	P	0.69	J	P	0.62	J	P
BARIUM		20			20			21			20		
BERYLLIUM		0.31	U	A	0.34	U	A	0.28	U	A	0.2	U	A
CADMIUM		0.17	U	A	0.061	U		0.061	U		0.061	U	
CHROMIUM		0.6	U		0.6	U		0.6	U		0.6	U	
COBALT		0.69	U	A	0.29	U	A	0.3	U	A	0.26	U	A
COPPER		2.1			2.6			2.9			2.3		
LEAD		0.11	U		0.11	U		0.14	U	A	0.11	U	
MERCURY		0.09	U		0.09	U		0.09	U		0.09	U	
MOLYBDENUM		0.93	J	P	0.92	J	P	1	J	P	0.88	J	P
NICKEL		0.47	J	P	0.39	J	P	0.35	J	P	0.41	J	P
SELENIUM		0.64	U	A	0.43	U	A	0.52	U	A	0.6	U	A
SILVER		0.02	U		0.02	U		0.02	U		0.02	U	
THALLIUM		0.074	U		0.074	U		0.074	U		0.074	U	
TUNGSTEN		0.5	U		0.5	U		0.5	U		0.5	U	
VANADIUM		0.32	J	P	0.23	U		0.32	J	P	0.28	J	P
ZINC		7.3	U		7.3	U		7.3	U		7.3	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW41A-030716			MSA-SW41B-030716			MSA-SW41C-030716			MSA-SW41D-030716		
	LAB_ID	240-61849-17			240-61849-18			240-61849-19			240-61849-20		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.16	U		0.16	U		0.16	U		0.16	U	
ARSENIC		0.54	J	P	0.63	J	P	0.61	J	P	0.61	J	P
BARIUM		19			21			20			20		
BERYLLIUM		0.21	U	A	0.21	U	A	0.23	U	A	0.053	U	
CADMIUM		0.11	U	A	0.061	U		0.061	U		0.061	U	
CHROMIUM		0.6	U		0.6	U		0.6	U		0.6	U	
COBALT		1.3			0.33	U	A	0.26	U	A	0.22	U	A
COPPER		2.8			2.7			2.7			2.7		
LEAD		0.11	U		0.13	U	A	0.13	U	A	0.11	U	
MERCURY		0.09	U		0.09	U		0.09	U		0.09	U	
MOLYBDENUM		0.85	J	P	0.97	J	P	0.92	J	P	0.9	J	P
NICKEL		1.5	J	P	0.39	J	P	0.35	J	P	0.34	J	P
SELENIUM		0.46	U	A	0.32	U	A	0.56	U	A	0.25	U	A
SILVER		0.02	U		0.02	U		0.02	U		0.02	U	
THALLIUM		0.074	U		0.074	U		0.074	U		0.074	U	
TUNGSTEN		0.5	U		0.5	U		0.5	U		0.5	U	
VANADIUM		0.23	U		0.23	U		0.23	U		0.3	J	P
ZINC		7.3	U		7.3	U		7.3	U		7.3	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW42A-030716			MSA-SW42B-030716			MSA-SW42C-030716			MSA-SW42D-030716		
	LAB_ID	240-61849-21			240-61849-22			240-61849-23			240-61849-24		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.16	U		0.18	J	P	0.16	U		0.16	U	
ARSENIC		0.84	J	P	1.1	J	P	0.74	J	P	0.81	J	P
BARIUM		20			22			20			20		
BERYLLIUM		0.077	J	P	0.17	J	P	0.071	J	P	0.053	U	
CADMIUM		0.13	U	A	0.19	J	P	0.094	J	P	0.061	U	
CHROMIUM		0.6	U		0.6	U		0.6	U		0.6	U	
COBALT		0.47	U	A	0.56	U	A	0.41	U	A	0.31	U	A
COPPER		2.2			1.9	U	A	1.5	U	A	1.9	U	A
LEAD		0.15	J	P	0.22	J	P	0.11	U		0.11	U	
MERCURY		0.09	U		0.09	U		0.09	U		0.09	U	
MOLYBDENUM		0.99	J	P	1	J	P	0.96	J	P	0.97	J	P
NICKEL		0.23	U		0.23	U		0.23	U		0.23	U	
SELENIUM		0.61	U	A	0.92	U	A	0.47	U	A	0.33	U	A
SILVER		0.02	U		0.02	U		0.02	U		0.02	U	
THALLIUM		0.074	U		0.082	J	P	0.074	U		0.074	U	
TUNGSTEN		0.5	U		0.5	U		0.5	U		0.5	U	
VANADIUM		0.27	U	A	0.77	U	A	0.43	U	A	0.36	U	A
ZINC		7.3	U		7.3	U		7.3	U		7.3	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW43A-030716			MSA-SW43B-030716			MSA-SW43C-030716			MSA-SW43D-030716		
	LAB_ID	240-61849-25			240-61849-26			240-61849-27			240-61849-28		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.16	U		0.18	J	P	0.17	J	P	0.16	U	
ARSENIC		0.64	J	P	0.72	J	P	0.68	J	P	0.69	J	P
BARIUM		19			20			19			19		
BERYLLIUM		0.069	J	P	0.053	U		0.053	U		0.053	U	
CADMIUM		0.061	U		0.061	U		0.061	U		0.061	U	
CHROMIUM		0.6	U		0.6	U		0.6	U		0.6	U	
COBALT		0.94	U	A	0.35	U	A	0.25	U	A	0.19	U	A
COPPER		2			2.2			1.8	U	A	22		
LEAD		0.11	U		0.11	U		0.11	J	P	0.6	J	P
MERCURY		0.09	U		0.09	U		0.09	U		0.09	U	
MOLYBDENUM		0.8	J	P	0.87	J	P	0.79	J	P	0.83	J	P
NICKEL		1.4	J	P	0.28	J	P	0.23	U		0.23	U	
SELENIUM		0.44	U	A	0.55	U	A	0.65	U	A	0.44	U	A
SILVER		0.02	U		0.02	U		0.02	U		0.02	U	
THALLIUM		0.074	U		0.074	U		0.074	U		0.074	U	
TUNGSTEN		0.5	U		0.5	U		0.5	U		0.5	U	
VANADIUM		0.45	U	A	0.45	U	A	0.36	U	A	0.44	U	A
ZINC		7.3	U		7.3	U		7.3	U		12	U	A

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW44A-030716			MSA-SW44B-030716			MSA-SW44C-030716			MSA-SW44D-030716		
	LAB_ID	240-61849-29			240-61849-30			240-61849-31			240-61849-32		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.16	U		0.16	U		0.16	U		0.16	U	
ARSENIC		0.61	J	P	0.71	J	P	0.68	J	P	0.65	J	P
BARIUM		18			20			19			19		
BERYLLIUM		0.053	U		0.053	U		0.053	U		0.053	U	
CADMIUM		0.061	U		0.061	U		0.061	U		0.061	U	
CHROMIUM		0.6	U		0.6	U		0.6	U		0.6	U	
COBALT		0.31	U	A	0.16	U	A	0.15	U	A	0.14	U	A
COPPER		1.6	U	A	1.6	U	A	1.7	U	A	1.9	U	A
LEAD		0.11	U		0.11	U		0.11	U		0.11	U	
MERCURY		0.21	J	D	0.09	U		0.09	U		0.09	U	
MOLYBDENUM		0.78	J	P	0.89	J	P	0.78	J	P	0.86	J	P
NICKEL		0.26	J	P	0.23	U		0.23	U		0.23	U	
SELENIUM		0.26	U	A	0.44	U	A	0.46	U	A	0.25	U	A
SILVER		0.02	U		0.02	U		0.02	U		0.02	U	
THALLIUM		0.074	U		0.074	U		0.074	U		0.074	U	
TUNGSTEN		0.5	U		0.5	U		0.5	U		0.5	U	
VANADIUM		0.42	U	A	0.46	U	A	0.26	U	A	0.23	U	A
ZINC		7.3	U		7.3	U		7.3	U		7.3	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW45A-030716			MSA-SW45B-030716			MSA-SW45C-030716			MSA-SW45D-030716		
	LAB_ID	240-61849-33			240-61849-34			240-61849-35			240-61849-36		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.16	U		0.16	U		0.16	U		0.16	U	
ARSENIC		0.57	J	P	0.62	J	P	0.64	J	P	0.58	J	P
BARIUM		19			20			19			19		
BERYLLIUM		0.053	U		0.053	U		0.053	U		0.053	U	
CADMIUM		0.061	U		0.061	U		0.061	U		0.061	U	
CHROMIUM		0.6	U		0.6	U		0.6	U		0.6	U	
COBALT		0.45	U	A	0.15	U	A	0.18	U	A	0.19	U	A
COPPER		1.6	U	A	1.5	U	A	2.3			1.6	U	A
LEAD		0.11	U		0.11	U		0.19	J	P	0.11	U	
MERCURY		0.09	U		0.09	U		0.09	U		0.09	U	
MOLYBDENUM		0.75	J	P	0.83	J	P	0.72	J	P	0.85	J	P
NICKEL		0.31	J	P	0.23	U		0.31	J	P	0.23	U	
SELENIUM		0.32	U	A	0.25	U		0.37	U	A	0.25	U	
SILVER		0.02	U		0.02	U		0.02	U		0.02	U	
THALLIUM		0.074	U		0.074	U		0.074	U		0.074	U	
TUNGSTEN		0.5	U		0.5	U		0.5	U		0.5	U	
VANADIUM		0.32	U	A	0.4	U	A	0.25	U	A	0.35	U	A
ZINC		7.3	U		7.3	U		9.6	U	A	7.3	U	

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW37A-030716			MSA-SW37B-030716			MSA-SW37C-030716			MSA-SW37D-030716		
	LAB_ID	240-61849-1			240-61849-2			240-61849-3			240-61849-4		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		110			98			97			100		
HARDNESS AS CaCO3		410			380			370			380		
MAGNESIUM HARDNESS AS CaCO3		310			280			270			280		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW38A-030716			MSA-SW38B-030716			MSA-SW38C-030716			MSA-SW38D-030716		
	LAB_ID	240-61849-5			240-61849-6			240-61849-7			240-61849-8		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		99			98			100			98		
HARDNESS AS CaCO3		380			370			390			380		
MAGNESIUM HARDNESS AS CaCO3		280			270			290			290		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW39A-030716			MSA-SW39B-030716			MSA-SW39C-030716			MSA-SW39D-030716		
	LAB_ID	240-61849-9			240-61849-10			240-61849-11			240-61849-12		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		91			92			88			93		
HARDNESS AS CaCO3		330			340			320			350		
MAGNESIUM HARDNESS AS CaCO3		240			250			230			250		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW40A-030716			MSA-SW40B-030716			MSA-SW40C-030716			MSA-SW40D-030716		
	LAB_ID	240-61849-13			240-61849-14			240-61849-15			240-61849-16		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		99			98			100			98		
HARDNESS AS CaCO3		380			380			400			380		
MAGNESIUM HARDNESS AS CaCO3		280			280			290			280		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW41A-030716			MSA-SW41B-030716			MSA-SW41C-030716			MSA-SW41D-030716		
	LAB_ID	240-61849-17			240-61849-18			240-61849-19			240-61849-20		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		92			100			96			97		
HARDNESS AS CaCO3		340			380			370			370		
MAGNESIUM HARDNESS AS CaCO3		250			280			270			270		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW42A-030716			MSA-SW42B-030716			MSA-SW42C-030716			MSA-SW42D-030716		
	LAB_ID	240-61849-21			240-61849-22			240-61849-23			240-61849-24		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CALCIUM HARDNESS AS CaCO3		98			100			98			98		
HARDNESS AS CaCO3		390			410			390			390		
MAGNESIUM HARDNESS AS CaCO3		300			310			290			290		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW43A-030716			MSA-SW43B-030716			MSA-SW43C-030716			MSA-SW43D-030716		
	LAB_ID	240-61849-25			240-61849-26			240-61849-27			240-61849-28		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		90			95			90			91		
HARDNESS AS CaCO3		330			360			350			350		
MAGNESIUM HARDNESS AS CaCO3		240			260			260			260		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW44A-030716			MSA-SW44B-030716			MSA-SW44C-030716			MSA-SW44D-030716		
	LAB_ID	240-61849-29			240-61849-30			240-61849-31			240-61849-32		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		85			94			90			89		
HARDNESS AS CaCO3		310			350			340			340		
MAGNESIUM HARDNESS AS CaCO3		230			260			250			250		

PROJ_NO: 07804 SDG: 240-61849-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW45A-030716			MSA-SW45B-030716			MSA-SW45C-030716			MSA-SW45D-030716		
	LAB_ID	240-61849-33			240-61849-34			240-61849-35			240-61849-36		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		86			92			84			91		
HARDNESS AS CaCO3		320			340			310			340		
MAGNESIUM HARDNESS AS CaCO3		230			250			220			250		

Appendix B

Results as Reported by the Laboratory

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW37A-030716 Lab Sample ID: 240-61849-1

Matrix: Water Lab File ID: UXR0184.D

Analysis Method: 8260C Date Collected: 03/07/2016 13:18

Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 13:40

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	10	U F1	10	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37A-030716</u>	Lab Sample ID: <u>240-61849-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0184.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:18</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 13:40</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	2.9		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	0.99	J	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	3.0		0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW37A-030716 Lab Sample ID: 240-61849-1
 Matrix: Water Lab File ID: UXR0184.D
 Analysis Method: 8260C Date Collected: 03/07/2016 13:18
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 13:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW37A-030716 Lab Sample ID: 240-61849-1
Matrix: Water Lab File ID: UXR0184.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:18
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 13:40
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221148 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW37A-030716 Lab Sample ID: 240-61849-1
Matrix: Water Lab File ID: UXR0184.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:18
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 13:40
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37B-030716</u>	Lab Sample ID: <u>240-61849-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0185.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 14:03</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>221148</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37B-030716</u>	Lab Sample ID: <u>240-61849-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0185.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:25</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 14:03</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	2.7		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	3.1		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	1.2		0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW37B-030716 Lab Sample ID: 240-61849-2
 Matrix: Water Lab File ID: UXR0185.D
 Analysis Method: 8260C Date Collected: 03/07/2016 13:25
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 14:03
 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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW37B-030716 Lab Sample ID: 240-61849-2
Matrix: Water Lab File ID: UXR0185.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:25
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 14:03
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.: 221148 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW37B-030716 Lab Sample ID: 240-61849-2
Matrix: Water Lab File ID: UXR0185.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:25
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 14:03
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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW37C-030716 Lab Sample ID: 240-61849-3

Matrix: Water Lab File ID: UXR0186.D

Analysis Method: 8260C Date Collected: 03/07/2016 13:30

Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 14:25

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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37C-030716</u>	Lab Sample ID: <u>240-61849-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0186.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:30</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 14:25</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.1		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.4		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.45	J	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW37C-030716 Lab Sample ID: 240-61849-3
 Matrix: Water Lab File ID: UXR0186.D
 Analysis Method: 8260C Date Collected: 03/07/2016 13:30
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 14:25
 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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		78-125
460-00-4	4-Bromofluorobenzene (Surr)	92		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37C-030716</u>	Lab Sample ID: <u>240-61849-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0186.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 14:25</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>221148</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW37C-030716 Lab Sample ID: 240-61849-3
Matrix: Water Lab File ID: UXR0186.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:30
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 14:25
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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37D-030716</u>	Lab Sample ID: <u>240-61849-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0187.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 14:48</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>221148</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37D-030716</u>	Lab Sample ID: <u>240-61849-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0187.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:35</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 14:48</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.73	J	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.30	J	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW37D-030716 Lab Sample ID: 240-61849-4
 Matrix: Water Lab File ID: UXR0187.D
 Analysis Method: 8260C Date Collected: 03/07/2016 13:35
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 14:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW37D-030716 Lab Sample ID: 240-61849-4
Matrix: Water Lab File ID: UXR0187.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:35
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 14:48
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221148 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW37D-030716 Lab Sample ID: 240-61849-4
Matrix: Water Lab File ID: UXR0187.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:35
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 14:48
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW38A-030716</u>	Lab Sample ID: <u>240-61849-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0188.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 15:10</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>221148</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.35	J	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW38A-030716</u>	Lab Sample ID: <u>240-61849-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0188.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:20</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 15:10</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	9.5		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	0.54	J	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	6.5		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	11		0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	0.54	J	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW38A-030716 Lab Sample ID: 240-61849-5
 Matrix: Water Lab File ID: UXR0188.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 15:10
 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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-125
460-00-4	4-Bromofluorobenzene (Surr)	92		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW38A-030716 Lab Sample ID: 240-61849-5
Matrix: Water Lab File ID: UXR0188.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:20
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 15:10
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.: 221148 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW38A-030716 Lab Sample ID: 240-61849-5
Matrix: Water Lab File ID: UXR0188.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:20
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 15:10
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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW38B-030716 Lab Sample ID: 240-61849-6

Matrix: Water Lab File ID: UXR0189.D

Analysis Method: 8260C Date Collected: 03/07/2016 12:25

Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 15:32

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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW38B-030716</u>	Lab Sample ID: <u>240-61849-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0189.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:25</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 15:32</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	3.3		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	4.0		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.56		0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW38B-030716 Lab Sample ID: 240-61849-6
 Matrix: Water Lab File ID: UXR0189.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:25
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 15:32
 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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-125
460-00-4	4-Bromofluorobenzene (Surr)	95		61-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW38B-030716 Lab Sample ID: 240-61849-6
Matrix: Water Lab File ID: UXR0189.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:25
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 15:32
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.: 221148 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW38B-030716 Lab Sample ID: 240-61849-6
Matrix: Water Lab File ID: UXR0189.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:25
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 15:32
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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW38C-030716 Lab Sample ID: 240-61849-7

Matrix: Water Lab File ID: UXR0190.D

Analysis Method: 8260C Date Collected: 03/07/2016 12:27

Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW38C-030716</u>	Lab Sample ID: <u>240-61849-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0190.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:27</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.2		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	2.1		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.32	J	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW38C-030716 Lab Sample ID: 240-61849-7
 Matrix: Water Lab File ID: UXR0190.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:27
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW38C-030716 Lab Sample ID: 240-61849-7
Matrix: Water Lab File ID: UXR0190.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:27
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 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.: 221148 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW38C-030716 Lab Sample ID: 240-61849-7
Matrix: Water Lab File ID: UXR0190.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:27
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW38D-030716 Lab Sample ID: 240-61849-8

Matrix: Water Lab File ID: UXR0191.D

Analysis Method: 8260C Date Collected: 03/07/2016 12:30

Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 16:17

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW38D-030716</u>	Lab Sample ID: <u>240-61849-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0191.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 16:17</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.30	J	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	0.42	J	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW38D-030716 Lab Sample ID: 240-61849-8
 Matrix: Water Lab File ID: UXR0191.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:30
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 16:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		78-125
460-00-4	4-Bromofluorobenzene (Surr)	93		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW38D-030716 Lab Sample ID: 240-61849-8
Matrix: Water Lab File ID: UXR0191.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:30
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 16:17
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221148 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW38D-030716 Lab Sample ID: 240-61849-8
Matrix: Water Lab File ID: UXR0191.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:30
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 16:17
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW39A-030716 Lab Sample ID: 240-61849-9

Matrix: Water Lab File ID: UXR0192.D

Analysis Method: 8260C Date Collected: 03/07/2016 10:24

Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 16:39

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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39A-030716</u>	Lab Sample ID: <u>240-61849-9</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0192.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:24</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 16:39</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW39A-030716 Lab Sample ID: 240-61849-9
 Matrix: Water Lab File ID: UXR0192.D
 Analysis Method: 8260C Date Collected: 03/07/2016 10:24
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 16:39
 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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		78-125
460-00-4	4-Bromofluorobenzene (Surr)	92		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39A-030716</u>	Lab Sample ID: <u>240-61849-9</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0192.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:24</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 16:39</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>221148</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW39A-030716 Lab Sample ID: 240-61849-9
Matrix: Water Lab File ID: UXR0192.D
Analysis Method: 8260C Date Collected: 03/07/2016 10:24
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 16:39
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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39B-030716</u>	Lab Sample ID: <u>240-61849-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0193.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:33</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 17:02</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>221148</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39B-030716</u>	Lab Sample ID: <u>240-61849-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0193.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:33</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 17:02</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW39B-030716 Lab Sample ID: 240-61849-10
 Matrix: Water Lab File ID: UXR0193.D
 Analysis Method: 8260C Date Collected: 03/07/2016 10:33
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 17:02
 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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-125
460-00-4	4-Bromofluorobenzene (Surr)	93		61-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW39B-030716 Lab Sample ID: 240-61849-10
Matrix: Water Lab File ID: UXR0193.D
Analysis Method: 8260C Date Collected: 03/07/2016 10:33
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 17:02
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.: 221148 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW39B-030716 Lab Sample ID: 240-61849-10
Matrix: Water Lab File ID: UXR0193.D
Analysis Method: 8260C Date Collected: 03/07/2016 10:33
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 17:02
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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39C-030716</u>	Lab Sample ID: <u>240-61849-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0194.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:38</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 17:24</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>221148</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39C-030716</u>	Lab Sample ID: <u>240-61849-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0194.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:38</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 17:24</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	0.23	J	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW39C-030716 Lab Sample ID: 240-61849-11
 Matrix: Water Lab File ID: UXR0194.D
 Analysis Method: 8260C Date Collected: 03/07/2016 10:38
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 17:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		78-125
460-00-4	4-Bromofluorobenzene (Surr)	93		61-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW39C-030716 Lab Sample ID: 240-61849-11
Matrix: Water Lab File ID: UXR0194.D
Analysis Method: 8260C Date Collected: 03/07/2016 10:38
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 17:24
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221148 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW39C-030716 Lab Sample ID: 240-61849-11
Matrix: Water Lab File ID: UXR0194.D
Analysis Method: 8260C Date Collected: 03/07/2016 10:38
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 17:24
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39D-030716</u>	Lab Sample ID: <u>240-61849-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0195.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:43</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 17:47</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>221148</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39D-030716</u>	Lab Sample ID: <u>240-61849-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0195.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:43</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 17:47</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW39D-030716 Lab Sample ID: 240-61849-12
 Matrix: Water Lab File ID: UXR0195.D
 Analysis Method: 8260C Date Collected: 03/07/2016 10:43
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 17:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		78-125
460-00-4	4-Bromofluorobenzene (Surr)	94		61-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39D-030716</u>	Lab Sample ID: <u>240-61849-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0195.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:43</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 17:47</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>221148</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW39D-030716 Lab Sample ID: 240-61849-12
Matrix: Water Lab File ID: UXR0195.D
Analysis Method: 8260C Date Collected: 03/07/2016 10:43
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 17:47
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW40A-030716 Lab Sample ID: 240-61849-13

Matrix: Water Lab File ID: UXR0196.D

Analysis Method: 8260C Date Collected: 03/07/2016 12:40

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2016 18:09

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.35	J	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40A-030716</u>	Lab Sample ID: <u>240-61849-13</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0196.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:40</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 18:09</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	8.7		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	0.89	J	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	5.2		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	5.6		0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	0.89	J	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW40A-030716 Lab Sample ID: 240-61849-13
 Matrix: Water Lab File ID: UXR0196.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:40
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 18:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40A-030716</u>	Lab Sample ID: <u>240-61849-13</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0196.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 18:09</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>221148</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW40A-030716 Lab Sample ID: 240-61849-13
Matrix: Water Lab File ID: UXR0196.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:40
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 18:09
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW40B-030716 Lab Sample ID: 240-61849-14

Matrix: Water Lab File ID: UXR0197.D

Analysis Method: 8260C Date Collected: 03/07/2016 12:43

Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 18:32

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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40B-030716</u>	Lab Sample ID: <u>240-61849-14</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0197.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:43</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 18:32</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	2.8		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	3.4		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.56		0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW40B-030716 Lab Sample ID: 240-61849-14
 Matrix: Water Lab File ID: UXR0197.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:43
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 18:32
 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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		78-125
460-00-4	4-Bromofluorobenzene (Surr)	92		61-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40B-030716</u>	Lab Sample ID: <u>240-61849-14</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0197.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:43</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 18:32</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>221148</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW40B-030716 Lab Sample ID: 240-61849-14
Matrix: Water Lab File ID: UXR0197.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:43
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 18:32
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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW40C-030716 Lab Sample ID: 240-61849-15

Matrix: Water Lab File ID: UXR0198.D

Analysis Method: 8260C Date Collected: 03/07/2016 12:57

Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 18:54

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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40C-030716</u>	Lab Sample ID: <u>240-61849-15</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0198.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:57</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 18:54</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.5		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	2.8		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.38	J	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW40C-030716 Lab Sample ID: 240-61849-15
 Matrix: Water Lab File ID: UXR0198.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:57
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 18:54
 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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40C-030716</u>	Lab Sample ID: <u>240-61849-15</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0198.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:57</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 18:54</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>221148</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW40C-030716 Lab Sample ID: 240-61849-15
Matrix: Water Lab File ID: UXR0198.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:57
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 18:54
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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40D-030716</u>	Lab Sample ID: <u>240-61849-16</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0199.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 19:16</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>221148</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40D-030716</u>	Lab Sample ID: <u>240-61849-16</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0199.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:50</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 19:16</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.59	J	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.1		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW40D-030716 Lab Sample ID: 240-61849-16
 Matrix: Water Lab File ID: UXR0199.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:50
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 19:16
 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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		78-125
460-00-4	4-Bromofluorobenzene (Surr)	94		61-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW40D-030716 Lab Sample ID: 240-61849-16
Matrix: Water Lab File ID: UXR0199.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:50
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 19:16
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.: 221148 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW40D-030716 Lab Sample ID: 240-61849-16
Matrix: Water Lab File ID: UXR0199.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:50
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 19:16
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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41A-030716</u>	Lab Sample ID: <u>240-61849-17</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0200.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 19:39</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>221148</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41A-030716</u>	Lab Sample ID: <u>240-61849-17</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0200.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:55</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 19:39</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	5.9		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	4.1		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.38	J	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW41A-030716 Lab Sample ID: 240-61849-17
 Matrix: Water Lab File ID: UXR0200.D
 Analysis Method: 8260C Date Collected: 03/07/2016 11:55
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 19:39
 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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-125
460-00-4	4-Bromofluorobenzene (Surr)	92		61-120
2037-26-5	Toluene-d8 (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41A-030716</u>	Lab Sample ID: <u>240-61849-17</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0200.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 19:39</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>221148</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW41A-030716 Lab Sample ID: 240-61849-17
Matrix: Water Lab File ID: UXR0200.D
Analysis Method: 8260C Date Collected: 03/07/2016 11:55
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 19:39
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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41B-030716</u>	Lab Sample ID: <u>240-61849-18</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0201.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 20:01</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>221148</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41B-030716</u>	Lab Sample ID: <u>240-61849-18</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0201.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:00</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 20:01</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.2		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.9		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW41B-030716 Lab Sample ID: 240-61849-18
 Matrix: Water Lab File ID: UXR0201.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:00
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 20:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		78-125
460-00-4	4-Bromofluorobenzene (Surr)	94		61-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41B-030716</u>	Lab Sample ID: <u>240-61849-18</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0201.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 20:01</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>221148</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW41B-030716 Lab Sample ID: 240-61849-18
Matrix: Water Lab File ID: UXR0201.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:00
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 20:01
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41C-030716</u>	Lab Sample ID: <u>240-61849-19</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0202.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 20:23</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>221148</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichloroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41C-030716</u>	Lab Sample ID: <u>240-61849-19</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0202.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:05</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 20:23</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.72	J	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.2		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW41C-030716 Lab Sample ID: 240-61849-19
 Matrix: Water Lab File ID: UXR0202.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 20:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		78-125
460-00-4	4-Bromofluorobenzene (Surr)	92		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41C-030716</u>	Lab Sample ID: <u>240-61849-19</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0202.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 20:23</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>221148</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW41C-030716 Lab Sample ID: 240-61849-19
Matrix: Water Lab File ID: UXR0202.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:05
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 20:23
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW41D-030716 Lab Sample ID: 240-61849-20

Matrix: Water Lab File ID: UXR0203.D

Analysis Method: 8260C Date Collected: 03/07/2016 12:10

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2016 20:46

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41D-030716</u>	Lab Sample ID: <u>240-61849-20</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0203.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:10</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 20:46</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.36	J	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	0.52	J	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW41D-030716 Lab Sample ID: 240-61849-20
 Matrix: Water Lab File ID: UXR0203.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:10
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 20:46
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		78-125
460-00-4	4-Bromofluorobenzene (Surr)	93		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41D-030716</u>	Lab Sample ID: <u>240-61849-20</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0203.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:10</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 20:46</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>221148</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW41D-030716 Lab Sample ID: 240-61849-20
Matrix: Water Lab File ID: UXR0203.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:10
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 20:46
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42A-030716</u>	Lab Sample ID: <u>240-61849-21</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXM3462.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:00</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 11:26</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>221113</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42A-030716</u>	Lab Sample ID: <u>240-61849-21</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXM3462.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 11:26</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>221113</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.9		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.1		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	1.4		0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW42A-030716 Lab Sample ID: 240-61849-21
Matrix: Water Lab File ID: UXM3462.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:00
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 11:26
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221113 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42A-030716</u>	Lab Sample ID: <u>240-61849-21</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXM3462.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 11:26</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>221113</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW42A-030716 Lab Sample ID: 240-61849-21
Matrix: Water Lab File ID: UXM3462.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:00
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 11:26
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221113 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW42A-030716 Lab Sample ID: 240-61849-21
 Matrix: Water Lab File ID: UXM3485.D
 Analysis Method: 8260C Date Collected: 03/07/2016 13:00
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 12:41
 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.: 221409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.4	J	5.0	0.94
78-93-3	2-Butanone	5.0	U	5.0	0.53

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		78-125
460-00-4	4-Bromofluorobenzene (Surr)	92		61-120
2037-26-5	Toluene-d8 (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW42A-030716 Lab Sample ID: 240-61849-21
Matrix: Water Lab File ID: UXM3485.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:00
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 12:41
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.: 221409 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42B-030716</u>	Lab Sample ID: <u>240-61849-22</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXM3469.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:05</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/11/2016 15:30</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>221113</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42B-030716</u>	Lab Sample ID: <u>240-61849-22</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXM3469.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 15:30</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>221113</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	2.8		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	3.6		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.96		0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW42B-030716 Lab Sample ID: 240-61849-22
Matrix: Water Lab File ID: UXM3469.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:05
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 15:30
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.: 221113 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		78-125
460-00-4	4-Bromofluorobenzene (Surr)	89		61-120
2037-26-5	Toluene-d8 (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW42B-030716 Lab Sample ID: 240-61849-22
Matrix: Water Lab File ID: UXM3469.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:05
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 15:30
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.: 221113 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW42B-030716 Lab Sample ID: 240-61849-22
Matrix: Water Lab File ID: UXM3469.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:05
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 15:30
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.: 221113 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW42B-030716 Lab Sample ID: 240-61849-22
 Matrix: Water Lab File ID: UXM3490.D
 Analysis Method: 8260C Date Collected: 03/07/2016 13:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 14:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	0.94
78-93-3	2-Butanone	5.0	U	5.0	0.53

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42B-030716</u>	Lab Sample ID: <u>240-61849-22</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXM3490.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 14:35</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>221409</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
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW42C-030716 Lab Sample ID: 240-61849-23

Matrix: Water Lab File ID: UXM3470.D

Analysis Method: 8260C Date Collected: 03/07/2016 13:10

Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 15:53

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 221113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42C-030716</u>	Lab Sample ID: <u>240-61849-23</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXM3470.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:10</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 15:53</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>221113</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	2.9		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	5.5		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.86		0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW42C-030716 Lab Sample ID: 240-61849-23
Matrix: Water Lab File ID: UXM3470.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:10
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 15:53
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221113 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		78-125
460-00-4	4-Bromofluorobenzene (Surr)	90		61-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW42C-030716 Lab Sample ID: 240-61849-23
Matrix: Water Lab File ID: UXM3470.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:10
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 15:53
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221113 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW42C-030716 Lab Sample ID: 240-61849-23
Matrix: Water Lab File ID: UXM3470.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:10
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 15:53
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221113 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW42C-030716 Lab Sample ID: 240-61849-23
 Matrix: Water Lab File ID: UXM3491.D
 Analysis Method: 8260C Date Collected: 03/07/2016 13:10
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 14:58
 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.: 221409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	0.94
78-93-3	2-Butanone	5.0	U	5.0	0.53

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		78-125
460-00-4	4-Bromofluorobenzene (Surr)	89		61-120
2037-26-5	Toluene-d8 (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42C-030716</u>	Lab Sample ID: <u>240-61849-23</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXM3491.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:10</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 14:58</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>221409</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
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42D-030716</u>	Lab Sample ID: <u>240-61849-24</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXM3471.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 16:16</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>221113</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42D-030716</u>	Lab Sample ID: <u>240-61849-24</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXM3471.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 13:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 16:16</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>221113</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.6		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.34	J	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW42D-030716 Lab Sample ID: 240-61849-24
Matrix: Water Lab File ID: UXM3471.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:15
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 16:16
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221113 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW42D-030716 Lab Sample ID: 240-61849-24
Matrix: Water Lab File ID: UXM3471.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:15
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 16:16
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221113 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW42D-030716 Lab Sample ID: 240-61849-24
Matrix: Water Lab File ID: UXM3471.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:15
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 16:16
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221113 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW42D-030716 Lab Sample ID: 240-61849-24
 Matrix: Water Lab File ID: UXM3492.D
 Analysis Method: 8260C Date Collected: 03/07/2016 13:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 15:21
 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.: 221409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	0.94
78-93-3	2-Butanone	5.0	U	5.0	0.53

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		78-125
460-00-4	4-Bromofluorobenzene (Surr)	89		61-120
2037-26-5	Toluene-d8 (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW42D-030716 Lab Sample ID: 240-61849-24
Matrix: Water Lab File ID: UXM3492.D
Analysis Method: 8260C Date Collected: 03/07/2016 13:15
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 15:21
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.: 221409 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW43A-030716 Lab Sample ID: 240-61849-25

Matrix: Water Lab File ID: UXM3472.D

Analysis Method: 8260C Date Collected: 03/07/2016 11:33

Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 16:39

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.: 221113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43A-030716</u>	Lab Sample ID: <u>240-61849-25</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXM3472.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:33</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 16:39</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>221113</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.46	J	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	0.46	J	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW43A-030716 Lab Sample ID: 240-61849-25
Matrix: Water Lab File ID: UXM3472.D
Analysis Method: 8260C Date Collected: 03/07/2016 11:33
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 16:39
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.: 221113 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		78-125
460-00-4	4-Bromofluorobenzene (Surr)	88		61-120
2037-26-5	Toluene-d8 (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43A-030716</u>	Lab Sample ID: <u>240-61849-25</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXM3472.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:33</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 16:39</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>221113</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW43A-030716 Lab Sample ID: 240-61849-25
Matrix: Water Lab File ID: UXM3472.D
Analysis Method: 8260C Date Collected: 03/07/2016 11:33
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 16:39
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.: 221113 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW43A-030716 Lab Sample ID: 240-61849-25
 Matrix: Water Lab File ID: UXM3493.D
 Analysis Method: 8260C Date Collected: 03/07/2016 11:33
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 15:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.3	J	5.0	0.94
78-93-3	2-Butanone	5.0	U	5.0	0.53

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		78-125
460-00-4	4-Bromofluorobenzene (Surr)	90		61-120
2037-26-5	Toluene-d8 (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43A-030716</u>	Lab Sample ID: <u>240-61849-25</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXM3493.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:33</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 15:44</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>221409</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
	Tentatively Identified Compound		None	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43B-030716</u>	Lab Sample ID: <u>240-61849-26</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0213.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 14:22</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>221418</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43B-030716</u>	Lab Sample ID: <u>240-61849-26</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0213.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 14:22</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.26	J	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	0.28	J	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	0.34	J	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW43B-030716 Lab Sample ID: 240-61849-26
 Matrix: Water Lab File ID: UXR0213.D
 Analysis Method: 8260C Date Collected: 03/07/2016 11:40
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 14:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-125
460-00-4	4-Bromofluorobenzene (Surr)	94		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW43B-030716 Lab Sample ID: 240-61849-26
Matrix: Water Lab File ID: UXR0213.D
Analysis Method: 8260C Date Collected: 03/07/2016 11:40
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 14:22
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221418 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW43B-030716 Lab Sample ID: 240-61849-26
Matrix: Water Lab File ID: UXR0213.D
Analysis Method: 8260C Date Collected: 03/07/2016 11:40
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 14:22
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43C-030716</u>	Lab Sample ID: <u>240-61849-27</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0214.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:43</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 14:45</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>221418</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43C-030716</u>	Lab Sample ID: <u>240-61849-27</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0214.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:43</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 14:45</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.89	J	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.3		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW43C-030716 Lab Sample ID: 240-61849-27
 Matrix: Water Lab File ID: UXR0214.D
 Analysis Method: 8260C Date Collected: 03/07/2016 11:43
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 14:45
 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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-125
460-00-4	4-Bromofluorobenzene (Surr)	90		61-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43C-030716</u>	Lab Sample ID: <u>240-61849-27</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0214.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:43</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 14:45</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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW43C-030716 Lab Sample ID: 240-61849-27
Matrix: Water Lab File ID: UXR0214.D
Analysis Method: 8260C Date Collected: 03/07/2016 11:43
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 14:45
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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43D-030716</u>	Lab Sample ID: <u>240-61849-28</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0215.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:46</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 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>221418</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43D-030716</u>	Lab Sample ID: <u>240-61849-28</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0215.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:46</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/14/2016 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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.33	J	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	0.49	J	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW43D-030716 Lab Sample ID: 240-61849-28
 Matrix: Water Lab File ID: UXR0215.D
 Analysis Method: 8260C Date Collected: 03/07/2016 11:46
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43D-030716</u>	Lab Sample ID: <u>240-61849-28</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0215.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:46</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW43D-030716 Lab Sample ID: 240-61849-28
Matrix: Water Lab File ID: UXR0215.D
Analysis Method: 8260C Date Collected: 03/07/2016 11:46
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44A-030716</u>	Lab Sample ID: <u>240-61849-29</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0216.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 15:30</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>221418</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44A-030716</u>	Lab Sample ID: <u>240-61849-29</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0216.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 15:30</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW44A-030716 Lab Sample ID: 240-61849-29
 Matrix: Water Lab File ID: UXR0216.D
 Analysis Method: 8260C Date Collected: 03/07/2016 11:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 15:30
 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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44A-030716</u>	Lab Sample ID: <u>240-61849-29</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0216.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 15:30</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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW44A-030716 Lab Sample ID: 240-61849-29
Matrix: Water Lab File ID: UXR0216.D
Analysis Method: 8260C Date Collected: 03/07/2016 11:15
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 15:30
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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44B-030716</u>	Lab Sample ID: <u>240-61849-30</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0217.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 15:52</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>221418</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44B-030716</u>	Lab Sample ID: <u>240-61849-30</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0217.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:20</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/14/2016 15:52</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.27	J	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	0.38	J	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW44B-030716 Lab Sample ID: 240-61849-30
 Matrix: Water Lab File ID: UXR0217.D
 Analysis Method: 8260C Date Collected: 03/07/2016 11:20
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 15:52
 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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-125
460-00-4	4-Bromofluorobenzene (Surr)	90		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44B-030716</u>	Lab Sample ID: <u>240-61849-30</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0217.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 15:52</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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW44B-030716 Lab Sample ID: 240-61849-30
Matrix: Water Lab File ID: UXR0217.D
Analysis Method: 8260C Date Collected: 03/07/2016 11:20
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 15:52
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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW44C-030716 Lab Sample ID: 240-61849-31

Matrix: Water Lab File ID: UXR0218.D

Analysis Method: 8260C Date Collected: 03/07/2016 11:22

Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 16:14

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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	0.99	J	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44C-030716</u>	Lab Sample ID: <u>240-61849-31</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0218.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:22</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/14/2016 16:14</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW44C-030716 Lab Sample ID: 240-61849-31
 Matrix: Water Lab File ID: UXR0218.D
 Analysis Method: 8260C Date Collected: 03/07/2016 11:22
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 16:14
 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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		78-125
460-00-4	4-Bromofluorobenzene (Surr)	93		61-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44C-030716</u>	Lab Sample ID: <u>240-61849-31</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0218.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:22</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 16:14</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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW44C-030716 Lab Sample ID: 240-61849-31
Matrix: Water Lab File ID: UXR0218.D
Analysis Method: 8260C Date Collected: 03/07/2016 11:22
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 16:14
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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW44D-030716 Lab Sample ID: 240-61849-32

Matrix: Water Lab File ID: UXR0219.D

Analysis Method: 8260C Date Collected: 03/07/2016 12:06

Sample wt/vol: 5(mL) Date Analyzed: 03/14/2016 16:37

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44D-030716</u>	Lab Sample ID: <u>240-61849-32</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0219.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:06</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/14/2016 16:37</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW44D-030716 Lab Sample ID: 240-61849-32
 Matrix: Water Lab File ID: UXR0219.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:06
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 16:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW44D-030716 Lab Sample ID: 240-61849-32
Matrix: Water Lab File ID: UXR0219.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:06
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 16:37
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221418 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW44D-030716 Lab Sample ID: 240-61849-32
Matrix: Water Lab File ID: UXR0219.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:06
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 16:37
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45A-030716</u>	Lab Sample ID: <u>240-61849-33</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0212.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 14:00</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>221418</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	10	U F1	10	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45A-030716</u>	Lab Sample ID: <u>240-61849-33</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0212.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:50</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/14/2016 14:00</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U F1	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW45A-030716 Lab Sample ID: 240-61849-33
 Matrix: Water Lab File ID: UXR0212.D
 Analysis Method: 8260C Date Collected: 03/07/2016 10:50
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 14:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-125
460-00-4	4-Bromofluorobenzene (Surr)	90		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW45A-030716 Lab Sample ID: 240-61849-33
Matrix: Water Lab File ID: UXR0212.D
Analysis Method: 8260C Date Collected: 03/07/2016 10:50
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 14:00
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221418 Units: ug/L
Number TICs Found: 1 TIC Result Total: 1

CAS NO.	COMPOUND NAME	RT	RESULT	Q
37577-28-9	(1S,2R)-(+)-Norephedrine	2.21	1.0	T J N

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW45A-030716 Lab Sample ID: 240-61849-33
Matrix: Water Lab File ID: UXR0212.D
Analysis Method: 8260C Date Collected: 03/07/2016 10:50
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 14:00
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45B-030716</u>	Lab Sample ID: <u>240-61849-34</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0220.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:53</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 16:59</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>221418</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45B-030716</u>	Lab Sample ID: <u>240-61849-34</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0220.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:53</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/14/2016 16:59</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW45B-030716 Lab Sample ID: 240-61849-34
 Matrix: Water Lab File ID: UXR0220.D
 Analysis Method: 8260C Date Collected: 03/07/2016 10:53
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 16:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		78-125
460-00-4	4-Bromofluorobenzene (Surr)	92		61-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45B-030716</u>	Lab Sample ID: <u>240-61849-34</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0220.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:53</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 16:59</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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW45B-030716 Lab Sample ID: 240-61849-34
Matrix: Water Lab File ID: UXR0220.D
Analysis Method: 8260C Date Collected: 03/07/2016 10:53
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 16:59
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45C-030716</u>	Lab Sample ID: <u>240-61849-35</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0221.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:58</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/14/2016 17:21</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>221418</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45C-030716</u>	Lab Sample ID: <u>240-61849-35</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0221.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:58</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/14/2016 17:21</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	0.25	J	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW45C-030716 Lab Sample ID: 240-61849-35
 Matrix: Water Lab File ID: UXR0221.D
 Analysis Method: 8260C Date Collected: 03/07/2016 10:58
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 17:21
 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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		78-125
460-00-4	4-Bromofluorobenzene (Surr)	92		61-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45C-030716</u>	Lab Sample ID: <u>240-61849-35</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0221.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:58</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 17:21</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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW45C-030716 Lab Sample ID: 240-61849-35
Matrix: Water Lab File ID: UXR0221.D
Analysis Method: 8260C Date Collected: 03/07/2016 10:58
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 17:21
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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW45D-030716 Lab Sample ID: 240-61849-36

Matrix: Water Lab File ID: UXR0222.D

Analysis Method: 8260C Date Collected: 03/07/2016 11:03

Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 17:44

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45D-030716</u>	Lab Sample ID: <u>240-61849-36</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0222.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:03</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/14/2016 17:44</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	0.27	J	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW45D-030716 Lab Sample ID: 240-61849-36
 Matrix: Water Lab File ID: UXR0222.D
 Analysis Method: 8260C Date Collected: 03/07/2016 11:03
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 17:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		78-125
460-00-4	4-Bromofluorobenzene (Surr)	90		61-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45D-030716</u>	Lab Sample ID: <u>240-61849-36</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0222.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:03</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 17:44</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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW45D-030716 Lab Sample ID: 240-61849-36
Matrix: Water Lab File ID: UXR0222.D
Analysis Method: 8260C Date Collected: 03/07/2016 11:03
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 17:44
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW01A-030716 Lab Sample ID: 240-61849-37

Matrix: Water Lab File ID: UXR0223.D

Analysis Method: 8260C Date Collected: 03/07/2016 09:56

Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 18:06

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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW01A-030716</u>	Lab Sample ID: <u>240-61849-37</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0223.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 09:56</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 18:06</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW01A-030716 Lab Sample ID: 240-61849-37
 Matrix: Water Lab File ID: UXR0223.D
 Analysis Method: 8260C Date Collected: 03/07/2016 09:56
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 18:06
 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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		78-125
460-00-4	4-Bromofluorobenzene (Surr)	90		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW01A-030716</u>	Lab Sample ID: <u>240-61849-37</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0223.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 09:56</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 18:06</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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW01A-030716 Lab Sample ID: 240-61849-37
Matrix: Water Lab File ID: UXR0223.D
Analysis Method: 8260C Date Collected: 03/07/2016 09:56
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 18:06
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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW01B-030716 Lab Sample ID: 240-61849-38

Matrix: Water Lab File ID: UXR0224.D

Analysis Method: 8260C Date Collected: 03/07/2016 10:06

Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 18:28

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW01B-030716</u>	Lab Sample ID: <u>240-61849-38</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0224.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:06</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 18:28</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	0.26	J	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	0.43	J	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW01B-030716 Lab Sample ID: 240-61849-38
 Matrix: Water Lab File ID: UXR0224.D
 Analysis Method: 8260C Date Collected: 03/07/2016 10:06
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 18:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		78-125
460-00-4	4-Bromofluorobenzene (Surr)	92		61-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW01B-030716</u>	Lab Sample ID: <u>240-61849-38</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0224.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:06</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 18:28</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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW01B-030716 Lab Sample ID: 240-61849-38
Matrix: Water Lab File ID: UXR0224.D
Analysis Method: 8260C Date Collected: 03/07/2016 10:06
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 18:28
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW01C-030716 Lab Sample ID: 240-61849-39

Matrix: Water Lab File ID: UXR0225.D

Analysis Method: 8260C Date Collected: 03/07/2016 10:11

Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 18:51

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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW01C-030716</u>	Lab Sample ID: <u>240-61849-39</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0225.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:11</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/14/2016 18:51</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW01C-030716 Lab Sample ID: 240-61849-39
 Matrix: Water Lab File ID: UXR0225.D
 Analysis Method: 8260C Date Collected: 03/07/2016 10:11
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 18:51
 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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW01C-030716 Lab Sample ID: 240-61849-39
Matrix: Water Lab File ID: UXR0225.D
Analysis Method: 8260C Date Collected: 03/07/2016 10:11
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 18:51
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.: 221418 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW01C-030716 Lab Sample ID: 240-61849-39
Matrix: Water Lab File ID: UXR0225.D
Analysis Method: 8260C Date Collected: 03/07/2016 10:11
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 18:51
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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW01D-030716</u>	Lab Sample ID: <u>240-61849-40</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0226.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 19:13</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>221418</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW01D-030716</u>	Lab Sample ID: <u>240-61849-40</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0226.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 19:13</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW01D-030716 Lab Sample ID: 240-61849-40
 Matrix: Water Lab File ID: UXR0226.D
 Analysis Method: 8260C Date Collected: 03/07/2016 10:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 19:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		78-125
460-00-4	4-Bromofluorobenzene (Surr)	94		61-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW01D-030716</u>	Lab Sample ID: <u>240-61849-40</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0226.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 10:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 19:13</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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW01D-030716 Lab Sample ID: 240-61849-40
Matrix: Water Lab File ID: UXR0226.D
Analysis Method: 8260C Date Collected: 03/07/2016 10:15
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 19:13
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>TB-030716</u>	Lab Sample ID: <u>240-61849-41</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0227.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 19:35</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>221418</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichloroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>TB-030716</u>	Lab Sample ID: <u>240-61849-41</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0227.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 00:00</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/14/2016 19:35</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: TB-030716 Lab Sample ID: 240-61849-41
 Matrix: Water Lab File ID: UXR0227.D
 Analysis Method: 8260C Date Collected: 03/07/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 19:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>TB-030716</u>	Lab Sample ID: <u>240-61849-41</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0227.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 19:35</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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: TB-030716 Lab Sample ID: 240-61849-41
Matrix: Water Lab File ID: UXR0227.D
Analysis Method: 8260C Date Collected: 03/07/2016 00:00
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 19:35
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW46A-030716</u>	Lab Sample ID: <u>240-61849-42</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0228.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:41</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 19:58</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>221418</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW46A-030716</u>	Lab Sample ID: <u>240-61849-42</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0228.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 11:41</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/14/2016 19:58</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	3.8		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	2.6		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW46A-030716 Lab Sample ID: 240-61849-42
 Matrix: Water Lab File ID: UXR0228.D
 Analysis Method: 8260C Date Collected: 03/07/2016 11:41
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 19:58
 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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW46A-030716 Lab Sample ID: 240-61849-42
Matrix: Water Lab File ID: UXR0228.D
Analysis Method: 8260C Date Collected: 03/07/2016 11:41
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 19:58
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.: 221418 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW46A-030716 Lab Sample ID: 240-61849-42
Matrix: Water Lab File ID: UXR0228.D
Analysis Method: 8260C Date Collected: 03/07/2016 11:41
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 19:58
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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
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>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW47A-030716</u>	Lab Sample ID: <u>240-61849-43</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0229.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 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>221418</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	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.37	J	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW47A-030716</u>	Lab Sample ID: <u>240-61849-43</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0229.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	10		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	0.49	J	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	5.2		2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0		1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	0.40	J	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	9.2		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	2.1		0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	6.2		2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW47A-030716 Lab Sample ID: 240-61849-43
 Matrix: Water Lab File ID: UXR0229.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		78-125
460-00-4	4-Bromofluorobenzene (Surr)	94		61-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW47A-030716</u>	Lab Sample ID: <u>240-61849-43</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0229.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW47A-030716 Lab Sample ID: 240-61849-43
Matrix: Water Lab File ID: UXR0229.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:15
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW48A-030716 Lab Sample ID: 240-61849-44

Matrix: Water Lab File ID: UXR0230.D

Analysis Method: 8260C Date Collected: 03/07/2016 12:35

Sample wt/vol: 5(mL) Date Analyzed: 03/14/2016 20:42

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.87	J	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW48A-030716</u>	Lab Sample ID: <u>240-61849-44</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0230.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:35</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/14/2016 20:42</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	14		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	1.2	J	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	6.1		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	11		0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	1.2	J	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW48A-030716 Lab Sample ID: 240-61849-44
 Matrix: Water Lab File ID: UXR0230.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:35
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 20:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW48A-030716</u>	Lab Sample ID: <u>240-61849-44</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0230.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 20:42</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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW48A-030716 Lab Sample ID: 240-61849-44
Matrix: Water Lab File ID: UXR0230.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:35
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 20:42
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: MSA-SW49A-030716 Lab Sample ID: 240-61849-45

Matrix: Water Lab File ID: UXR0231.D

Analysis Method: 8260C Date Collected: 03/07/2016 12:55

Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 21:04

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW49A-030716</u>	Lab Sample ID: <u>240-61849-45</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0231.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:55</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/14/2016 21:04</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>221418</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	2.9		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.9		1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	1.6		0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: MSA-SW49A-030716 Lab Sample ID: 240-61849-45
 Matrix: Water Lab File ID: UXR0231.D
 Analysis Method: 8260C Date Collected: 03/07/2016 12:55
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 21:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		78-125
460-00-4	4-Bromofluorobenzene (Surr)	90		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW49A-030716</u>	Lab Sample ID: <u>240-61849-45</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0231.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>03/07/2016 12:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/14/2016 21:04</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>221418</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: MSA-SW49A-030716 Lab Sample ID: 240-61849-45
Matrix: Water Lab File ID: UXR0231.D
Analysis Method: 8260C Date Collected: 03/07/2016 12:55
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 21:04
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37A-030716

Lab Sample ID: 240-61849-1

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:18

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.20	2.0	0.16	ug/L	J		1	6020
7440-38-2	Arsenic	0.94	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	21	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.98	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.26	1.0	0.061	ug/L	J		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.66	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.3	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	0.24	1.0	0.11	ug/L	J		1	6020
7439-98-7	Molybdenum	1.1	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.88	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	1.4	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	0.18	1.0	0.074	ug/L	J		1	6020
7440-62-2	Vanadium	0.43	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U	F1	1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37A-030716

Lab Sample ID: 240-61849-1

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:18

Reporting Basis: WET

Date Received: 03/08/2016 09:40

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

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37B-030716

Lab Sample ID: 240-61849-2

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:25

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.22	2.0	0.16	ug/L	J		1	6020
7440-38-2	Arsenic	0.90	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	1.7	1.0	0.053	ug/L		B	1	6020
7440-43-9	Cadmium	0.28	1.0	0.061	ug/L	J		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.67	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.6	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	0.30	1.0	0.11	ug/L	J		1	6020
7439-98-7	Molybdenum	0.99	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.70	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	1.2	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	0.025	1.0	0.020	ug/L	J		1	6020
7440-28-0	Thallium	0.20	1.0	0.074	ug/L	J		1	6020
7440-62-2	Vanadium	0.49	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	0.50	10	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37B-030716

Lab Sample ID: 240-61849-2

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:25

Reporting Basis: WET

Date Received: 03/08/2016 09:40

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

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37C-030716

Lab Sample ID: 240-61849-3

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:30

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.16	2.0	0.16	ug/L	J		1	6020
7440-38-2	Arsenic	0.72	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	21	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.85	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.14	1.0	0.061	ug/L	J		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.42	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.7	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	0.16	1.0	0.11	ug/L	J		1	6020
7439-98-7	Molybdenum	0.94	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.53	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.55	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.32	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37C-030716

Lab Sample ID: 240-61849-3

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:30

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	370	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	97	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	270	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37D-030716

Lab Sample ID: 240-61849-4

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:35

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.16	2.0	0.16	ug/L	J		1	6020
7440-38-2	Arsenic	0.70	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	21	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.82	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.096	1.0	0.061	ug/L	J		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.32	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.0	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.97	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.25	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.59	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.38	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37D-030716

Lab Sample ID: 240-61849-4

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:35

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	380	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	280	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38A-030716

Lab Sample ID: 240-61849-5

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:20

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.16	2.0	0.16	ug/L	J		1	6020
7440-38-2	Arsenic	0.64	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	21	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.60	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.18	1.0	0.061	ug/L	J		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.83	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.5	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.93	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.69	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.47	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	5.0	5.0	0.23	ug/L	U		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38A-030716

Lab Sample ID: 240-61849-5

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:20

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	380	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	99	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	280	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38B-030716

Lab Sample ID: 240-61849-6

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:25

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.17	2.0	0.16	ug/L	J		1	6020
7440-38-2	Arsenic	0.59	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.58	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.12	1.0	0.061	ug/L	J		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.55	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.1	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.96	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.25	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.25	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.27	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38B-030716

Lab Sample ID: 240-61849-6

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:25

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	370	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	98	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	270	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38C-030716

Lab Sample ID: 240-61849-7

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:27

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.70	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.50	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.071	1.0	0.061	ug/L	J		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.30	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	1.8	2.0	0.75	ug/L	J		1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.98	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.23	ug/L	U		1	6020
7782-49-2	Selenium	0.70	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.25	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38C-030716

Lab Sample ID: 240-61849-7

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:27

Reporting Basis: WET

Date Received: 03/08/2016 09:40

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

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38D-030716

Lab Sample ID: 240-61849-8

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:30

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.77	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.39	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.22	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	1.8	2.0	0.75	ug/L	J		1	6020
7439-92-1	Lead	0.11	1.0	0.11	ug/L	J		1	6020
7439-98-7	Molybdenum	0.89	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.23	ug/L	U		1	6020
7782-49-2	Selenium	0.72	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.37	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38D-030716

Lab Sample ID: 240-61849-8

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:30

Reporting Basis: WET

Date Received: 03/08/2016 09:40

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

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39A-030716

Lab Sample ID: 240-61849-9

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 10:24

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.51	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	19	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.46	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.26	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.0	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.86	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.34	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.43	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	5.0	5.0	0.23	ug/L	U		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39A-030716

Lab Sample ID: 240-61849-9

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 10:24

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	330	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	91	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	240	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39B-030716

Lab Sample ID: 240-61849-10

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 10:33

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.58	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	19	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.36	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.20	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	1.8	2.0	0.75	ug/L	J		1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.86	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.32	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.65	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.26	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39B-030716

Lab Sample ID: 240-61849-10

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 10:33

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	340	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	92	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	250	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39C-030716

Lab Sample ID: 240-61849-11

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 10:38

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.52	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	18	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.36	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.16	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.0	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.84	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.29	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.44	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	5.0	5.0	0.23	ug/L	U		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39C-030716

Lab Sample ID: 240-61849-11

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 10:38

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	320	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	88	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	230	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39D-030716

Lab Sample ID: 240-61849-12

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 10:43

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.63	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	19	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.29	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.17	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.1	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.84	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.23	ug/L	U		1	6020
7782-49-2	Selenium	0.43	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	5.0	5.0	0.23	ug/L	U		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39D-030716

Lab Sample ID: 240-61849-12

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 10:43

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	350	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	93	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	250	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40A-030716

Lab Sample ID: 240-61849-13

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:40

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.65	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.31	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.17	1.0	0.061	ug/L	J		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.69	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.1	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.93	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.47	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.64	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.32	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40A-030716

Lab Sample ID: 240-61849-13

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:40

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	380	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	99	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	280	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40B-030716

Lab Sample ID: 240-61849-14

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:43

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.61	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.34	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.29	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.6	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.92	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.39	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.43	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	5.0	5.0	0.23	ug/L	U		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40B-030716 Lab Sample ID: 240-61849-14
Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG ID.:
Matrix: Water Date Sampled: 03/07/2016 12:43
Reporting Basis: WET Date Received: 03/08/2016 09:40

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

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40C-030716

Lab Sample ID: 240-61849-15

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:57

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.69	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	21	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.28	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.30	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.9	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	0.14	1.0	0.11	ug/L	J		1	6020
7439-98-7	Molybdenum	1.0	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.35	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.52	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.32	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40C-030716
Lab Name: TestAmerica Canton
SDG ID.:
Matrix: Water
Reporting Basis: WET

Lab Sample ID: 240-61849-15
Job No.: 240-61849-1
Date Sampled: 03/07/2016 12:57
Date Received: 03/08/2016 09:40

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

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40D-030716

Lab Sample ID: 240-61849-16

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:50

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.62	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.20	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.26	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.3	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.88	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.41	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.60	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.28	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40D-030716

Lab Sample ID: 240-61849-16

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:50

Reporting Basis: WET

Date Received: 03/08/2016 09:40

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

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41A-030716

Lab Sample ID: 240-61849-17

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:55

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.54	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	19	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.21	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	0.11	1.0	0.061	ug/L	J		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	1.3	1.0	0.021	ug/L		B	1	6020
7440-50-8	Copper	2.8	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.85	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	1.5	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.46	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	5.0	5.0	0.23	ug/L	U		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41A-030716

Lab Sample ID: 240-61849-17

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:55

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	340	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	92	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	250	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41B-030716

Lab Sample ID: 240-61849-18

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:00

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.63	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	21	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.21	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.33	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.7	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	0.13	1.0	0.11	ug/L	J		1	6020
7439-98-7	Molybdenum	0.97	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.39	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.32	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	5.0	5.0	0.23	ug/L	U		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41B-030716

Lab Sample ID: 240-61849-18

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:00

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	380	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	280	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41C-030716

Lab Sample ID: 240-61849-19

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:05

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.61	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	0.23	1.0	0.053	ug/L	J	B	1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.26	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.7	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	0.13	1.0	0.11	ug/L	J		1	6020
7439-98-7	Molybdenum	0.92	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.35	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.56	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	5.0	5.0	0.23	ug/L	U		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41C-030716

Lab Sample ID: 240-61849-19

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:05

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	370	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	96	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	270	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41D-030716

Lab Sample ID: 240-61849-20

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:10

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.61	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.053	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.22	1.0	0.021	ug/L	J	B	1	6020
7440-50-8	Copper	2.7	2.0	0.75	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.90	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.34	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.25	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.30	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U	^	1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41D-030716

Lab Sample ID: 240-61849-20

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:10

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	370	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	97	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	270	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42A-030716

Lab Sample ID: 240-61849-21

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:00

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.84	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	0.077	1.0	0.053	ug/L	J		1	6020
7440-43-9	Cadmium	0.13	1.0	0.061	ug/L	J		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.47	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	2.2	2.0	0.75	ug/L		B	1	6020
7439-92-1	Lead	0.15	1.0	0.11	ug/L	J		1	6020
7439-98-7	Molybdenum	0.99	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.23	ug/L	U		1	6020
7782-49-2	Selenium	0.61	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.27	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U	F1	1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42A-030716

Lab Sample ID: 240-61849-21

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:00

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	390	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	98	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	300	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42B-030716

Lab Sample ID: 240-61849-22

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:05

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.18	2.0	0.16	ug/L	J		1	6020
7440-38-2	Arsenic	1.1	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	22	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	0.17	1.0	0.053	ug/L	J		1	6020
7440-43-9	Cadmium	0.19	1.0	0.061	ug/L	J		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.56	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	1.9	2.0	0.75	ug/L	J	B	1	6020
7439-92-1	Lead	0.22	1.0	0.11	ug/L	J		1	6020
7439-98-7	Molybdenum	1.0	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.23	ug/L	U		1	6020
7782-49-2	Selenium	0.92	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	0.082	1.0	0.074	ug/L	J		1	6020
7440-62-2	Vanadium	0.77	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42B-030716

Lab Sample ID: 240-61849-22

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:05

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	410	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	100	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	310	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42C-030716

Lab Sample ID: 240-61849-23

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:10

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.74	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	0.071	1.0	0.053	ug/L	J		1	6020
7440-43-9	Cadmium	0.094	1.0	0.061	ug/L	J		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.41	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	1.5	2.0	0.75	ug/L	J	B	1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.96	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.23	ug/L	U		1	6020
7782-49-2	Selenium	0.47	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.43	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42C-030716

Lab Sample ID: 240-61849-23

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:10

Reporting Basis: WET

Date Received: 03/08/2016 09:40

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

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42D-030716

Lab Sample ID: 240-61849-24

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:15

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.81	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	1.0	1.0	0.053	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.31	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	1.9	2.0	0.75	ug/L	J	B	1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.97	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.23	ug/L	U		1	6020
7782-49-2	Selenium	0.33	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.36	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42D-030716

Lab Sample ID: 240-61849-24

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 13:15

Reporting Basis: WET

Date Received: 03/08/2016 09:40

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

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43A-030716

Lab Sample ID: 240-61849-25

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:33

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.64	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	19	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	0.069	1.0	0.053	ug/L	J		1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.94	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	2.0	2.0	0.75	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.80	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	1.4	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.44	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.45	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43A-030716

Lab Sample ID: 240-61849-25

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:33

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	330	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	90	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	240	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43B-030716

Lab Sample ID: 240-61849-26

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:40

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.18	2.0	0.16	ug/L	J		1	6020
7440-38-2	Arsenic	0.72	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	1.0	1.0	0.053	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.35	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	2.2	2.0	0.75	ug/L		B	1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.87	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.28	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.55	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.45	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43B-030716

Lab Sample ID: 240-61849-26

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:40

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	360	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	95	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	260	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43C-030716

Lab Sample ID: 240-61849-27

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:43

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.17	2.0	0.16	ug/L	J		1	6020
7440-38-2	Arsenic	0.68	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	19	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	1.0	1.0	0.053	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.25	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	1.8	2.0	0.75	ug/L	J	B	1	6020
7439-92-1	Lead	0.11	1.0	0.11	ug/L	J		1	6020
7439-98-7	Molybdenum	0.79	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.23	ug/L	U		1	6020
7782-49-2	Selenium	0.65	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.36	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43C-030716

Lab Sample ID: 240-61849-27

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:43

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	350	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	90	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	260	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43D-030716

Lab Sample ID: 240-61849-28

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:46

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.69	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	19	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	1.0	1.0	0.053	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.19	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	22	2.0	0.75	ug/L		B	1	6020
7439-92-1	Lead	0.60	1.0	0.11	ug/L	J		1	6020
7439-98-7	Molybdenum	0.83	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.23	ug/L	U		1	6020
7782-49-2	Selenium	0.44	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.44	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	12	20	7.3	ug/L	J	B	1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43D-030716

Lab Sample ID: 240-61849-28

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:46

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	350	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	91	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	260	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44A-030716

Lab Sample ID: 240-61849-29

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:15

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.61	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	18	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	1.0	1.0	0.053	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.31	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	1.6	2.0	0.75	ug/L	J	B	1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.78	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.26	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.26	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.42	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.21	0.20	0.090	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44A-030716

Lab Sample ID: 240-61849-29

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:15

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	310	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	85	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	230	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44B-030716

Lab Sample ID: 240-61849-30

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:20

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.71	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	1.0	1.0	0.053	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.16	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	1.6	2.0	0.75	ug/L	J	B	1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.89	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.23	ug/L	U		1	6020
7782-49-2	Selenium	0.44	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.46	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44B-030716

Lab Sample ID: 240-61849-30

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:20

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	350	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	94	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	260	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44C-030716

Lab Sample ID: 240-61849-31

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:22

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.68	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	19	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	1.0	1.0	0.053	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.15	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	1.7	2.0	0.75	ug/L	J	B	1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.78	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.23	ug/L	U		1	6020
7782-49-2	Selenium	0.46	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.26	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44C-030716

Lab Sample ID: 240-61849-31

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:22

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	340	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	90	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	250	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44D-030716

Lab Sample ID: 240-61849-32

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:06

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.65	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	19	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	1.0	1.0	0.053	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.14	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	1.9	2.0	0.75	ug/L	J	B	1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.86	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.23	ug/L	U		1	6020
7782-49-2	Selenium	0.25	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.23	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44D-030716

Lab Sample ID: 240-61849-32

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 12:06

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	340	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	89	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	250	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45A-030716

Lab Sample ID: 240-61849-33

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 10:50

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.57	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	19	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	1.0	1.0	0.053	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.45	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	1.6	2.0	0.75	ug/L	J	B	1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.75	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.31	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.32	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.32	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45A-030716

Lab Sample ID: 240-61849-33

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 10:50

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	320	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	86	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	230	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45B-030716

Lab Sample ID: 240-61849-34

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 10:53

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.62	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	20	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	1.0	1.0	0.053	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.15	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	1.5	2.0	0.75	ug/L	J	B	1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.83	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.23	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.25	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.40	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45B-030716

Lab Sample ID: 240-61849-34

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 10:53

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	340	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	92	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	250	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45C-030716

Lab Sample ID: 240-61849-35

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 10:58

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.64	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	19	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	1.0	1.0	0.053	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.18	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	2.3	2.0	0.75	ug/L		B	1	6020
7439-92-1	Lead	0.19	1.0	0.11	ug/L	J		1	6020
7439-98-7	Molybdenum	0.72	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	0.31	2.0	0.23	ug/L	J		1	6020
7782-49-2	Selenium	0.37	5.0	0.25	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.25	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	9.6	20	7.3	ug/L	J	B	1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45C-030716

Lab Sample ID: 240-61849-35

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 10:58

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	310	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	84	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	220	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45D-030716

Lab Sample ID: 240-61849-36

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:03

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.16	ug/L	U		1	6020
7440-38-2	Arsenic	0.58	5.0	0.49	ug/L	J		1	6020
7440-39-3	Barium	19	5.0	1.1	ug/L		B	1	6020
7440-41-7	Beryllium	1.0	1.0	0.053	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.061	ug/L	U		1	6020
7440-47-3	Chromium	2.0	2.0	0.60	ug/L	U		1	6020
7440-48-4	Cobalt	0.19	1.0	0.021	ug/L	J		1	6020
7440-50-8	Copper	1.6	2.0	0.75	ug/L	J	B	1	6020
7439-92-1	Lead	1.0	1.0	0.11	ug/L	U		1	6020
7439-98-7	Molybdenum	0.85	10	0.23	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	0.23	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.25	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.020	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.074	ug/L	U		1	6020
7440-62-2	Vanadium	0.35	5.0	0.23	ug/L	J		1	6020
7440-66-6	Zinc	20	20	7.3	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45D-030716

Lab Sample ID: 240-61849-36

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG ID.:

Matrix: Water

Date Sampled: 03/07/2016 11:03

Reporting Basis: WET

Date Received: 03/08/2016 09:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	340	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	91	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	250	21		mg/L			1	SM 2340B

Appendix C

Support Documentation

LMC - MSA FROG MORTAR CREEK
SDG 240-61849-1

SAMPLE IDENTIFICATION

MSA-SW47A-030716

COMPOUND

TRICHLOROETHENE

COMPOUND AREA 288414

INTERNAL STANDARD AMOUNT (ng) 50

VOLUME WATER PURGED (ml) 5

DILUTION FACTOR 1

INTERNAL STANDARD AREA 1187726

AVERAGE RRF 0.2652

ml to μ l 1000

ng to μ g 1000

9.16 μ g/L

$288414 \times 50\text{ng} \times 1 \times 1000\text{ml} \times 1\mu\text{g} / (1187726 \times 0.2652 \times 5\text{ml} \times 1\text{L} \times 1000\text{ng})$

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX17\20160314-52481.b\UXR0229.D
 Lims ID: 240-61849-B-43 Lab Sample ID: 240-61849-43
 Client ID: MSA-SW47A-030716
 Sample Type: Client
 Inject. Date: 14-Mar-2016 20:20:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0052481-025
 Operator ID: 1644 Instrument ID: A3UX17
 Method: \\ChromNA\Canton\ChromData\A3UX17\20160314-52481.b\8260_17.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 15-Mar-2016 09:07:00 Calib Date: 10-Mar-2016 15:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\A3UX17\20160310-52378.b\UXR0167.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK003

First Level Reviewer: williamsla

Date: 15-Mar-2016 08:58:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.763	5.763	0.000	98	1187726	10.0	
* 2 Chlorobenzene-d5	117	8.467	8.467	0.000	88	830190	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.720	10.720	0.000	96	426393	10.0	
\$ 4 Dibromofluoromethane (Surr	113	5.182	5.182	0.000	94	252192	9.41	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.479	5.479	0.000	0	380880	10.0	
\$ 6 Toluene-d8 (Surr)	98	7.139	7.139	0.000	94	1080132	9.82	
\$ 7 4-Bromofluorobenzene (Surr	95	9.582	9.582	0.000	90	397304	9.42	
9 Dichlorodifluoromethane	85		1.648				ND	
10 Chloromethane	50		1.826				ND	
11 Vinyl chloride	62	1.957	1.957	0.000	98	75480	2.05	
12 Bromomethane	94		2.313				ND	
13 Chloroethane	64		2.419				ND	
15 Trichlorofluoromethane	101		2.668				ND	
19 1,1-Dichloroethene	96		3.178				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.190				ND	
21 Acetone	43	3.237	3.237	0.000	99	17891	0.1421	
23 Carbon disulfide	76		3.392				ND	
27 Methylene Chloride	84		3.641				ND	
28 2-Methyl-2-propanol	59		3.736				ND	
30 Methyl tert-butyl ether	73		3.878				ND	
31 trans-1,2-Dichloroethene	96		3.890				ND	
33 1,1-Dichloroethane	63		4.269				ND	
34 Vinyl acetate	43		4.305				ND	
35 Isopropyl ether	87		4.305				ND	
37 Tert-butyl ethyl ether	59		4.625				ND	
38 2,2-Dichloropropane	77		4.767				ND	
39 cis-1,2-Dichloroethene	96	4.779	4.779	0.000	81	337947	10.2	
40 2-Butanone (MEK)	43		4.779				ND	
44 Chlorobromomethane	128		4.993				ND	
46 Chloroform	83		5.040				ND	
47 1,1,1-Trichloroethane	97		5.206				ND	
49 1,1-Dichloropropene	75		5.348				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 Carbon tetrachloride	117		5.348				ND	
52 Benzene	78		5.526				ND	
53 1,2-Dichloroethane	62		5.550				ND	
54 Tert-amyl methyl ether	73		5.609				ND	
57 Trichloroethene	130	6.083	6.084	-0.001	97	288414	9.16	
60 1,2-Dichloropropane	63		6.285				ND	
62 Dibromomethane	93		6.392				ND	
64 Dichlorobromomethane	83		6.510				ND	
66 2-Chloroethyl vinyl ether	63		6.759				ND	
67 cis-1,3-Dichloropropene	75		6.902				ND	
68 4-Methyl-2-pentanone (MIBK)	43		7.032				ND	
69 Toluene	91	7.210	7.198	0.012	98	51822	0.3986	
70 trans-1,3-Dichloropropene	75		7.400				ND	
73 Tetrachloroethene	164		7.696				ND	
75 1,3-Dichloropropane	76		7.720				ND	
76 2-Hexanone	43		7.779				ND	
78 Chlorodibromomethane	129		7.933				ND	
79 Ethylene Dibromide	107		8.052				ND	
81 Chlorobenzene	112		8.503				ND	
82 1,1,1,2-Tetrachloroethane	131		8.574				ND	
83 Ethylbenzene	106	8.586	8.586	0.000	99	21816	0.4939	
84 m-Xylene & p-Xylene	106	8.692	8.692	0.000	99	279316	5.16	
85 o-Xylene	106	9.084	9.072	0.012	98	56279	1.04	
86 Styrene	104		9.084				ND	
87 Bromoform	173		9.285				ND	
89 Isopropylbenzene	105		9.428				ND	
91 1,1,2,2-Tetrachloroethane	83		9.712				ND	
92 Bromobenzene	156		9.736				ND	
94 1,2,3-Trichloropropane	110		9.772				ND	
95 N-Propylbenzene	120		9.819				ND	
96 2-Chlorotoluene	126		9.926				ND	
98 4-Chlorotoluene	126		10.021				ND	
99 tert-Butylbenzene	119		10.317				ND	
101 1,2,4-Trimethylbenzene	105		10.364				ND	
102 sec-Butylbenzene	105		10.530				ND	
103 1,3-Dichlorobenzene	146	10.661	10.661	0.000	1	5051	0.0808	7
104 4-Isopropyltoluene	119		10.673				ND	
105 1,4-Dichlorobenzene	146	10.744	10.744	0.000	93	23765	0.3702	
106 1,2,3-Trimethylbenzene	105		10.780				ND	
108 n-Butylbenzene	91		11.076				ND	
109 1,2-Dichlorobenzene	146		11.123				ND	
111 1,2-Dibromo-3-Chloropropan	157		11.906				ND	
113 1,2,4-Trichlorobenzene	180		12.724				ND	
114 Hexachlorobutadiene	225		12.890				ND	
115 Naphthalene	128		12.985				ND	
116 1,2,3-Trichlorobenzene	180		13.258				ND	
S 130 Xylenes, Total	106				0		6.21	
T 127 Chlorodifluoromethane TIC	51		1.630				ND	

Sample Report

MSA-SW42C-030716

Sample Table

Sample Name 240-61849-d-23-a
 Data File Name 059SMPL.d
 Data Path Name D:\Analytical Runs\I10031716b.b
 Acq Date Time 2016-03-17T20:26:25-04:00
 Sample Type Sample
 Dilution 1
 Comment
 ISTD Ref FileName 002CALB.d
 Sample QC Pass/Fail Fail
 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	45	2	NoGas	9.041	9.041	2.29	184553	0.00	10000	
Be	9	6	2	NoGas	0.071	0.071	5.19	230	0.03	10000	
B	11	45	2	NoGas	264.069	264.069	0.97	602614	0.04	300	
Na	23	45	1	He	559238.809	559238.809	0.38	349989971	0.16	500000	>LDR
Mg	24	45	1	He	69990.986	69990.986	0.07	24142188	0.29	500000	
Al	27	45	1	He	15.993	15.993	4.69	2924	0.55	200000	
K	39	45	1	He	22454.146	22454.146	0.79	6760008	0.33	500000	
Ca	44	45	1	He	39251.760	39251.760	0.30	634242	6.19	500000	
Ti	47	45	1	He	0.083	0.083	122.34	10	0.83	2500	
V	51	45	1	He	0.431	0.431	57.42	2009	0.02	10000	
Cr	52	45	1	He	0.253	0.253	7.73	5220	0.00	10000	
Mn	55	45	1	He	22.939	22.939	1.66	49983	0.05	10000	
Fe	56	45	1	He	14.097	14.097	2.68	40623	0.03	200000	
Co	59	45	1	He	0.410	0.410	4.92	1966	0.02	10000	
Ni	60	45	1	He	-0.072	-0.072	-53.92	1396	-0.01	10000	
Cu	63	45	1	He	1.546	1.546	0.85	5651	0.03	10000	
Zn	66	45	1	He	-0.866	-0.866	-2.38	1255	-0.07	10000	
As	75	103	1	He	0.744	0.744	5.76	435	0.17	10000	
Se	78	115	1	He	0.465	0.465	43.39	46	1.02	10000	
Sr	88	103	1	He	503.452	503.452	0.98	1306520	0.04	10000	
Mo	95	103	1	He	0.960	0.960	4.03	1570	0.06	2000	
Ag	107	103	1	He	0.003	0.003	43.73	31	0.01	300	
Cd	111	115	1	He	0.094	0.094	10.23	81	0.12	4000	
Sn	118	115	1	He	-0.163	-0.163	-24.40	411	-0.04	2000	
Sb	123	115	1	He	0.025	0.025	98.96	816	0.00	200	
Ba	137	115	1	He	20.103	20.103	0.48	18479	0.11	10000	
W	182	159	1	He	0.137	0.137	34.47	3012	0.00	2500	
Tl	205	165	1	He	0.017	0.017	11.23	274	0.01	5000	
Pb	208	165	1	He	0.084	0.084	6.37	1761	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	1248944	0.66	1798687	69.44	60	120	
Sc	45	1	He	353632	0.10	425952	83.02	60	120	
Sc	45	2	NoGas	5817215	1.22	6962818	83.55	60	120	
Rh	103	1	He	1193835	0.81	1608738	74.21	60	120	
In	115	1	He	611312	1.19	730330	83.70	60	120	
Tb	159	1	He	1971205	0.69	2227242	88.50	60	120	
Ho	165	1	He	1915680	0.22	2149782	89.11	60	120	
Bi	209	1	He	1171892	0.89	1512489	77.48	60	120	

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BALTIMORE

180325

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Tony Apanavage		Site Contact: Tony Apanavage		Date: 3/7/2016		COC No:	
Tetra Tech		Tel/Fax: 301-233-8230 (cell)		Lab Contact: John McFadden		Carrier: Fedex		1 of 4 COCs	
20251 Century Blvd, Suite 200		Analysis Turnaround Time							
Germantown, MD 20874		Calendar (C) or Work Days (W)							
(301) 528-3021 Phone		TAT if different from Below: 3 DAYS							
(301) 528-3000 FAX									
Project Name: MSA Surface Water Sampling		☐ 2 weeks						Job No.	
Site: MSA Frog Mortar Creek		☐ 1 week						SDG No.	
P O #		☐ 2 days						Sampler: S. Cameron	
		☐ 1 day						Sample Specific Notes:	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals
MSA-SW37A-030716		3/7/2016	1318	SW	Water	4	x	x	x
MSA-SW37B-030716		3/7/2016	1325	SW	Water	4	x	x	x
MSA-SW37C-030716		3/7/2016	1330	SW	Water	4	x	x	x
MSA-SW37D-030716		3/7/2016	1335	SW	Water	4	x	x	x
MSA-SW38A-030716		3/7/2016	1220	SW	Water	4	x	x	x
MSA-SW38B-030716		3/7/2016	1225	SW	Water	4	x	x	x
MSA-SW38C-030716		3/7/2016	1227	SW	Water	4	x	x	x
MSA-SW38D-030716		3/7/2016	1230	SW	Water	4	x	x	x
MSA-SW39A-030716		3/7/2016	1024	SW	Water	4	x	x	x
MSA-SW39B-030716		3/7/2016	1033	SW	Water	4	x	x	x
MSA-SW39C-030716		3/7/2016	1038	SW	Water	4	x	x	x
MSA-SW39D-030716		3/7/2016	1043	SW	Water	4	x	x	x
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant					☐ Return To Client ☒ Disposal By Lab ☐ Archive For Months				
Special Instructions/QC Requirements & Comments: DISSOLVED METALS FILTERED IN FIELD									
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
[Signature]		Tetra Tech		3-7-16/1600		[Signature]		TestAmerica	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
[Signature]		TestAmerica		3-7-2016/1740		[Signature]		TA	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Tony Apanavage		Site Contact: Tony Apanavage		Date: 3/31/2015		COC No:													
Tetra Tech		Tel/Fax: 301-233-8230 (cell)		Lab Contact: Pat Omeara		Carrier: Fedex		2 of 4 COCs													
20251 Century Blvd, Suite 200		Analysis Turnaround Time		Filtered Sample: VOCs Dissolved Metals Hardness																	
Germantown, MD 20874		Calendar (C) or Work Days (W) _____																			
(301) 528-3021 Phone		TAT if different from Below: 3 DAYS																			
(301) 528-3000 FAX		☐ 2 weeks																			
Project Name: MSA Surface Water Sampling		☐ 1 week																			
Site: MSA Frog Mortar Creek		☐ 2 days						Job No.													
P O #		☐ 1 day						SDG No.													
								Sampler: J. Canon													
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:														
MSA-SW40A-030716		3/7/2016	1240	SW	Water	4															
MSA-SW40B-030716		3/7/2016	1243	SW	Water	4															
MSA-SW40C-030716		3/7/2016	1257	SW	Water	4															
MSA-SW40D-030716		3/7/2016	1250	SW	Water	4															
MSA-SW41A-030716		3/7/2016	1155	SW	Water	4															
MSA-SW41B-030716		3/7/2016	1201	SW	Water	4															
MSA-SW41C-030716		3/7/2016	1205	SW	Water	4															
MSA-SW41D-030716		3/7/2016	1210	SW	Water	4															
MSA-SW42A-030716		3/7/2016	1300	SW	Water	4															
MSA-SW42B-030716		3/7/2016	1305	SW	Water	4															
MSA-SW42C-030716		3/7/2016	1310	SW	Water	4															
MSA-SW42D-030716		3/7/2016	1315	SW	Water	4															
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____																					
Possible Hazard Identification							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant							☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months														
Special Instructions/QC Requirements & Comments:							DISSOLVED METALS FILTERED IN FIELD														
Relinquished by:		Company: Tetra Tech		Date/Time: 3-7-16/1600		Received by:		Company: TestAmerica		Date/Time: 3-7-2016/1600											
Relinquished by:		Company: TestAmerica		Date/Time: 3-7-2016/1700		Received by:		Company: TA		Date/Time: 3-8-16 940											
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:											

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

North Canton, OH 44720
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BALTIMORE

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Tony Apanavage		Site Contact: Tony Apanavage		Date: 3/31/2015		COC No:			
Tetra Tech		Tel/Fax: 301-233-8230 (cell)		Lab Contact: Pat Omeara		Carrier: Fedex		3 of 4 COCs			
20251 Century Blvd, Suite 200		Analysis Turnaround Time						Job No.			
Germantown, MD 20874		Calendar (C) or Work Days (W)						SDG No.			
(301) 528-3021 Phone		TAT if different from Below: 3 DAYS						Sampler: S/Comery			
(301) 528-3000 FAX		☐ 2 weeks									
Project Name: MSA Surface Water Sampling		☐ 1 week									
Site: MSA Frog Mortar Creek		☐ 2 days									
P O #		☐ 1 day									
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs	Dissolved Metals	Hardness	Sample Specific Notes:
MSA-SW43A-030716		3/7/2016	1133	SW	Water	4	x	x	x	x	
MSA-SW43B-030716		3/7/2016	1140	SW	Water	4	x	x	x	x	
MSA-SW43C-030716		3/7/2016	1143	SW	Water	4	x	x	x	x	
MSA-SW43D-030716		3/7/2016	1146	SW	Water	4	x	x	x	x	
MSA-SW44A-030716		3/7/2016	1115	SW	Water	4	x	x	x	x	
MSA-SW44B-030716		3/7/2016	1120	SW	Water	4	x	x	x	x	
MSA-SW44C-030716		3/7/2016	1122	SW	Water	4	x	x	x	x	
MSA-SW44D-030716		3/7/2016	1126	SW	Water	4	x	x	x	x	
MSA-SW45A-030716		3/7/2016	1050	SW	Water	4	x	x	x	x	
MSA-SW45B-030716		3/7/2016	1053	SW	Water	4	x	x	x	x	
MSA-SW45C-030716		3/7/2016	1058	SW	Water	4	x	x	x	x	
MSA-SW45D-030716		3/7/2016	1103	SW	Water	4	x	x	x	x	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other											
Possible Hazard Identification							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant							☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months				
Special Instructions/QC Requirements & Comments: DISSOLVED METALS FILTERED IN FIELD											
Relinquished by:		Company: Tetra Tech		Date/Time: 3-7-16/1600		Received by:		Company: TestAmerica		Date/Time: 3-7-2016/1600	
Relinquished by:		Company: TestAmerica		Date/Time: 3-7-2016/1747		Received by:		Company: TA		Date/Time: 3-8-16 940	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

[illegible]

TestAmerica Canton Sample Receipt Form/Narrative

Login #: 61849

Canton Facility

Client <u>Tetra Tech</u>	Site Name _____	Cooler unpacked by: <u>[Signature]</u>
Cooler Received on <u>3-8-16</u>	Opened on <u>3-8-16</u>	
FedEx: 1 st Grd <u>Exp</u>	UPS FAS Stetson	Client Drop Off TestAmerica Courier Other _____
Receipt After-hours: Drop-off Date/Time _____		Storage Location _____
TestAmerica Cooler # _____	Foam Box Client Cooler Box <u>Other</u>	
Packing material used: <u>Bubble Wrap</u> Foam Plastic Bag None Other _____		
COOLANT: <u>Wet Ice</u> Blue Ice Dry Ice Water None		
1. Cooler temperature upon receipt ☒ See Multiple Cooler Form		
IR GUN# 48 (CF -1.9 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C		
IR GUN# 36 (CF -1.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C		
IR GUN# 18 (CF -0.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C		
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity <u>2</u> <u>Yes</u> No		
-Were custody seals on the outside of the cooler(s) signed & dated? <u>Yes</u> No NA		
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? <u>Yes</u> <u>No</u>		
3. Shippers' packing slip attached to the cooler(s)? <u>Yes</u> No		
4. Did custody papers accompany the sample(s)? <u>Yes</u> No		
5. Were the custody papers relinquished & signed in the appropriate place? <u>Yes</u> No		
6. Was/were the person(s) who collected the samples clearly identified on the COC? <u>Yes</u> <u>No</u>		
7. Did all bottles arrive in good condition (Unbroken)? <u>Yes</u> No		
8. Could all bottle labels be reconciled with the COC? <u>Yes</u> No		
9. Were correct bottle(s) used for the test(s) indicated? <u>Yes</u> No		
10. Sufficient quantity received to perform indicated analyses? <u>Yes</u> No		
11. Are these work share samples? <u>Yes</u> No		
<i>If yes, Questions 12-16 have been checked at the originating laboratory.</i>		
12. Were sample(s) at the correct pH upon receipt? <u>Yes</u> No NA pH Strip Lot# <u>HC559158</u>		
13. Were VOAs on the COC? <u>Yes</u> No		
14. Were air bubbles >6 mm in any VOA vials? <u>Yes</u> <u>No</u> NA		
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ <u>Yes</u> No		
16. Was a LL Hg or Me Hg trip blank present? <u>Yes</u> <u>No</u>		
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____		
Concerning _____		

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

Rec'd 4 VOAs Samples not on COCMSA-SW46A-030716, 3-7-16 @ 1141SW47A - @ 1215SW48A - @ 1235SW49A - @ 1255Will log at end of Lot.

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): _____

CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MSA Surface Water

Report Number: 240-61849-1

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 3/8/2016 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.1° C and 1.3° C.

The laboratory received the following samples for VOC analysis that were not listed on the Chain of Custody: MSA-SW46A-030716 (240-61849-42), MSA-SW47A-030716 (240-61849-43), MSA-SW48A-030716 (240-61849-44) and MSA-SW49A-030716 (240-61849-45). The laboratory will have the samples analyzed for VOCs.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples MSA-SW37A-030716 (240-61849-1), MSA-SW37B-030716 (240-61849-2), MSA-SW37C-030716 (240-61849-3), MSA-SW37D-030716 (240-61849-4), MSA-SW38A-030716 (240-61849-5), MSA-SW38B-030716 (240-61849-6), MSA-SW38C-030716 (240-61849-7), MSA-SW38D-030716 (240-61849-8), MSA-SW39A-030716 (240-61849-9), MSA-SW39B-030716 (240-61849-10), MSA-SW39C-030716 (240-61849-11), MSA-SW39D-030716 (240-61849-12), MSA-SW40A-030716 (240-61849-13), MSA-SW40B-030716 (240-61849-14), MSA-SW40C-030716 (240-61849-15), MSA-SW40D-030716 (240-61849-16), MSA-SW41A-030716 (240-61849-17), MSA-SW41B-030716 (240-61849-18), MSA-SW41C-030716 (240-61849-19), MSA-SW41D-030716 (240-61849-20), MSA-SW42A-030716 (240-61849-21), MSA-SW42B-030716 (240-61849-22), MSA-SW42C-030716 (240-61849-23), MSA-SW42D-030716 (240-61849-24), MSA-SW43A-030716 (240-61849-25), MSA-SW43B-030716 (240-61849-26), MSA-SW43C-030716 (240-61849-27), MSA-SW43D-030716 (240-61849-28), MSA-SW44A-030716 (240-61849-29), MSA-SW44B-030716 (240-61849-30), MSA-SW44C-030716 (240-61849-31), MSA-SW44D-030716 (240-61849-32), MSA-SW45A-030716 (240-61849-33), MSA-SW45B-030716 (240-61849-34), MSA-SW45C-030716 (240-61849-35), MSA-SW45D-030716 (240-61849-36), MSA-SW01A-030716 (240-61849-37), MSA-SW01B-030716 (240-61849-38), MSA-SW01C-030716 (240-61849-39), MSA-SW01D-030716 (240-61849-40), TB-030716 (240-61849-41), MSA-SW46A-030716 (240-61849-42), MSA-SW47A-030716 (240-61849-43), MSA-SW48A-030716 (240-61849-44) and MSA-SW49A-030716 (240-61849-45) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 03/11/2016 and 03/14/2016.

Methylene Chloride was detected in method blank MB 240-221418/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batches 240-221409 and 240-221113. Batches include: MSA-SW42A-030716 (240-61849-21), MSA-SW42B-030716 (240-61849-22), MSA-SW42C-030716 (240-61849-23), MSA-SW42D-030716 (240-61849-24) and MSA-SW43A-030716 (240-61849-25).

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample. The following samples were acid preserved:

MSA-SW37A-030716 (240-61849-1), MSA-SW37B-030716 (240-61849-2), MSA-SW37C-030716 (240-61849-3), MSA-SW37D-030716 (240-61849-4), MSA-SW38A-030716 (240-61849-5), MSA-SW38B-030716 (240-61849-6), MSA-SW38C-030716 (240-61849-7), MSA-SW38D-030716 (240-61849-8), MSA-SW39A-030716 (240-61849-9), MSA-SW39B-030716 (240-61849-10), MSA-SW39C-030716 (240-61849-11), MSA-SW39D-030716 (240-61849-12), MSA-SW40A-030716 (240-61849-13), MSA-SW40B-030716 (240-61849-14), MSA-SW40C-030716 (240-61849-15), MSA-SW40D-030716 (240-61849-16), MSA-SW41A-030716 (240-61849-17), MSA-SW41B-030716 (240-61849-18), MSA-SW41C-030716 (240-61849-19), MSA-SW41D-030716 (240-61849-20), MSA-SW43B-030716 (240-61849-26), MSA-SW43C-030716 (240-61849-27), MSA-SW43D-030716 (240-61849-28), MSA-SW44A-030716 (240-61849-29), MSA-SW44B-030716 (240-61849-30), MSA-SW44C-030716 (240-61849-31), MSA-SW44D-030716 (240-61849-32), MSA-SW45A-030716 (240-61849-33), MSA-SW45B-030716 (240-61849-34), MSA-SW45C-030716 (240-61849-35), MSA-SW45D-030716 (240-61849-36), MSA-SW01A-030716 (240-61849-37), MSA-SW01B-030716 (240-61849-38), MSA-SW01C-030716 (240-61849-39), MSA-SW01D-030716 (240-61849-40), TB-030716 (240-61849-41), MSA-SW46A-030716 (240-61849-42), MSA-SW47A-030716 (240-61849-43), MSA-SW48A-030716 (240-61849-44) and MSA-SW49A-030716 (240-61849-45).

The continuing calibration verification (CCV) for analytical batch 221418 exceeded control criteria for multiple compounds. The samples associated with this CCV were non-detects for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required. The following samples are impacted: MSA-SW43B-030716 (240-61849-26), MSA-SW43C-030716 (240-61849-27), MSA-SW43D-030716 (240-61849-28), MSA-SW44A-030716 (240-61849-29), MSA-SW44B-030716 (240-61849-30), MSA-SW44C-030716 (240-61849-31), MSA-SW44D-030716 (240-61849-32), MSA-SW45A-030716 (240-61849-33), MSA-SW45B-030716 (240-61849-34), MSA-SW45C-030716 (240-61849-35), MSA-SW45D-030716 (240-61849-36), MSA-SW01A-030716 (240-61849-37), MSA-SW01B-030716 (240-61849-38), MSA-SW01C-030716 (240-61849-39), MSA-SW01D-030716 (240-61849-40), TB-030716 (240-61849-41), MSA-SW46A-030716 (240-61849-42), MSA-SW47A-030716 (240-61849-43), MSA-SW48A-030716 (240-61849-44), MSA-SW49A-030716 (240-61849-45), (240-61849-C-33 MS) and (240-61849-A-33 MSD).

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-030716 (240-61849-1), MSA-SW37B-030716 (240-61849-2), MSA-SW37C-030716 (240-61849-3), MSA-SW37D-030716 (240-61849-4), MSA-SW38A-030716 (240-61849-5), MSA-SW38B-030716 (240-61849-6), MSA-SW38C-030716 (240-61849-7), MSA-SW38D-030716 (240-61849-8), MSA-SW39A-030716 (240-61849-9), MSA-SW39B-030716 (240-61849-10), MSA-SW39C-030716 (240-61849-11), MSA-SW39D-030716 (240-61849-12), MSA-SW40A-030716 (240-61849-13), MSA-SW40B-030716 (240-61849-14), MSA-SW40C-030716 (240-61849-15), MSA-SW40D-030716 (240-61849-16), MSA-SW41A-030716 (240-61849-17), MSA-SW41B-030716 (240-61849-18), MSA-SW41C-030716 (240-61849-19), MSA-SW41D-030716 (240-61849-20), MSA-SW42A-030716 (240-61849-21), MSA-SW42B-030716 (240-61849-22), MSA-SW42C-030716 (240-61849-23), MSA-SW42D-030716 (240-61849-24), MSA-SW43A-030716 (240-61849-25), MSA-SW43B-030716 (240-61849-26), MSA-SW43C-030716 (240-61849-27), MSA-SW43D-030716 (240-61849-28), MSA-SW44A-030716 (240-61849-29), MSA-SW44B-030716 (240-61849-30), MSA-SW44C-030716 (240-61849-31), MSA-SW44D-030716 (240-61849-32), MSA-SW45A-030716 (240-61849-33), MSA-SW45B-030716 (240-61849-34), MSA-SW45C-030716 (240-61849-35) and MSA-SW45D-030716 (240-61849-36) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 03/10/2016 and analyzed on 03/16/2016 and 03/17/2016.

Beryllium and Cobalt were detected in method blank MB 240-220940/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Zinc was detected in method blank MB 240-220945/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Barium, Calcium, Copper and Magnesium were detected in method blank MB 240-220945/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The continuing calibration verification (CCV) associated with batch 240-221854 recovered above the upper control limit for tungsten. The sample associated with this CCV was non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: MSA-SW41D-030716 (240-61849-20).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)

Samples MSA-SW37A-030716 (240-61849-1), MSA-SW37B-030716 (240-61849-2), MSA-SW37C-030716 (240-61849-3), MSA-SW37D-030716 (240-61849-4), MSA-SW38A-030716 (240-61849-5), MSA-SW38B-030716 (240-61849-6), MSA-SW38C-030716 (240-61849-7), MSA-SW38D-030716 (240-61849-8), MSA-SW39A-030716 (240-61849-9), MSA-SW39B-030716 (240-61849-10), MSA-SW39C-030716 (240-61849-11), MSA-SW39D-030716 (240-61849-12), MSA-SW40A-030716 (240-61849-13), MSA-SW40B-030716 (240-61849-14), MSA-SW40C-030716 (240-61849-15), MSA-SW40D-030716 (240-61849-16), MSA-SW41A-030716 (240-61849-17), MSA-SW41B-030716 (240-61849-18), MSA-SW41C-030716 (240-61849-19), MSA-SW41D-030716 (240-61849-20), MSA-SW42A-030716 (240-61849-21), MSA-SW42B-030716 (240-61849-22), MSA-SW42C-030716 (240-61849-23), MSA-SW42D-030716 (240-61849-24), MSA-SW43A-030716 (240-61849-25),

MSA-SW43B-030716 (240-61849-26), MSA-SW43C-030716 (240-61849-27), MSA-SW43D-030716 (240-61849-28), MSA-SW44A-030716 (240-61849-29), MSA-SW44B-030716 (240-61849-30), MSA-SW44C-030716 (240-61849-31), MSA-SW44D-030716 (240-61849-32), MSA-SW45A-030716 (240-61849-33), MSA-SW45B-030716 (240-61849-34), MSA-SW45C-030716 (240-61849-35) and MSA-SW45D-030716 (240-61849-36) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 03/10/2016 and analyzed on 03/11/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED HARDNESS (AS CaCO₃) BY CALCULATION

Samples MSA-SW37A-030716 (240-61849-1), MSA-SW37B-030716 (240-61849-2), MSA-SW37C-030716 (240-61849-3), MSA-SW37D-030716 (240-61849-4), MSA-SW38A-030716 (240-61849-5), MSA-SW38B-030716 (240-61849-6), MSA-SW38C-030716 (240-61849-7), MSA-SW38D-030716 (240-61849-8), MSA-SW39A-030716 (240-61849-9), MSA-SW39B-030716 (240-61849-10), MSA-SW39C-030716 (240-61849-11), MSA-SW39D-030716 (240-61849-12), MSA-SW40A-030716 (240-61849-13), MSA-SW40B-030716 (240-61849-14), MSA-SW40C-030716 (240-61849-15), MSA-SW40D-030716 (240-61849-16), MSA-SW41A-030716 (240-61849-17), MSA-SW41B-030716 (240-61849-18), MSA-SW41C-030716 (240-61849-19), MSA-SW41D-030716 (240-61849-20), MSA-SW42A-030716 (240-61849-21), MSA-SW42B-030716 (240-61849-22), MSA-SW42C-030716 (240-61849-23), MSA-SW42D-030716 (240-61849-24), MSA-SW43A-030716 (240-61849-25), MSA-SW43B-030716 (240-61849-26), MSA-SW43C-030716 (240-61849-27), MSA-SW43D-030716 (240-61849-28), MSA-SW44A-030716 (240-61849-29), MSA-SW44B-030716 (240-61849-30), MSA-SW44C-030716 (240-61849-31), MSA-SW44D-030716 (240-61849-32), MSA-SW45A-030716 (240-61849-33), MSA-SW45B-030716 (240-61849-34), MSA-SW45C-030716 (240-61849-35) and MSA-SW45D-030716 (240-61849-36) were analyzed for dissolved hardness (as CaCO₃) by calculation in accordance with SM 2340B. The samples were analyzed on 03/17/2016 and 03/18/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: Tetra Tech, Inc.

Job Number: 240-61849-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-61849-1	MSA-SW37A-030716	Water	03/07/2016 1318	03/08/2016 0940
240-61849-2	MSA-SW37B-030716	Water	03/07/2016 1325	03/08/2016 0940
240-61849-3	MSA-SW37C-030716	Water	03/07/2016 1330	03/08/2016 0940
240-61849-4	MSA-SW37D-030716	Water	03/07/2016 1335	03/08/2016 0940
240-61849-5	MSA-SW38A-030716	Water	03/07/2016 1220	03/08/2016 0940
240-61849-6	MSA-SW38B-030716	Water	03/07/2016 1225	03/08/2016 0940
240-61849-7	MSA-SW38C-030716	Water	03/07/2016 1227	03/08/2016 0940
240-61849-8	MSA-SW38D-030716	Water	03/07/2016 1230	03/08/2016 0940
240-61849-9	MSA-SW39A-030716	Water	03/07/2016 1024	03/08/2016 0940
240-61849-10	MSA-SW39B-030716	Water	03/07/2016 1033	03/08/2016 0940
240-61849-11	MSA-SW39C-030716	Water	03/07/2016 1038	03/08/2016 0940
240-61849-12	MSA-SW39D-030716	Water	03/07/2016 1043	03/08/2016 0940
240-61849-13	MSA-SW40A-030716	Water	03/07/2016 1240	03/08/2016 0940
240-61849-14	MSA-SW40B-030716	Water	03/07/2016 1243	03/08/2016 0940
240-61849-15	MSA-SW40C-030716	Water	03/07/2016 1257	03/08/2016 0940
240-61849-16	MSA-SW40D-030716	Water	03/07/2016 1250	03/08/2016 0940
240-61849-17	MSA-SW41A-030716	Water	03/07/2016 1155	03/08/2016 0940
240-61849-18	MSA-SW41B-030716	Water	03/07/2016 1200	03/08/2016 0940
240-61849-19	MSA-SW41C-030716	Water	03/07/2016 1205	03/08/2016 0940
240-61849-20	MSA-SW41D-030716	Water	03/07/2016 1210	03/08/2016 0940
240-61849-21	MSA-SW42A-030716	Water	03/07/2016 1300	03/08/2016 0940
240-61849-22	MSA-SW42B-030716	Water	03/07/2016 1305	03/08/2016 0940
240-61849-23	MSA-SW42C-030716	Water	03/07/2016 1310	03/08/2016 0940
240-61849-24	MSA-SW42D-030716	Water	03/07/2016 1315	03/08/2016 0940
240-61849-25	MSA-SW43A-030716	Water	03/07/2016 1133	03/08/2016 0940
240-61849-26	MSA-SW43B-030716	Water	03/07/2016 1140	03/08/2016 0940
240-61849-27	MSA-SW43C-030716	Water	03/07/2016 1143	03/08/2016 0940
240-61849-28	MSA-SW43D-030716	Water	03/07/2016 1146	03/08/2016 0940
240-61849-29	MSA-SW44A-030716	Water	03/07/2016 1115	03/08/2016 0940
240-61849-30	MSA-SW44B-030716	Water	03/07/2016 1120	03/08/2016 0940
240-61849-31	MSA-SW44C-030716	Water	03/07/2016 1122	03/08/2016 0940
240-61849-32	MSA-SW44D-030716	Water	03/07/2016 1206	03/08/2016 0940
240-61849-33	MSA-SW45A-030716	Water	03/07/2016 1050	03/08/2016 0940
240-61849-34	MSA-SW45B-030716	Water	03/07/2016 1053	03/08/2016 0940
240-61849-35	MSA-SW45C-030716	Water	03/07/2016 1058	03/08/2016 0940
240-61849-36	MSA-SW45D-030716	Water	03/07/2016 1103	03/08/2016 0940
240-61849-37	MSA-SW01A-030716	Water	03/07/2016 0956	03/08/2016 0940
240-61849-38	MSA-SW01B-030716	Water	03/07/2016 1006	03/08/2016 0940
240-61849-39	MSA-SW01C-030716	Water	03/07/2016 1011	03/08/2016 0940
240-61849-40	MSA-SW01D-030716	Water	03/07/2016 1015	03/08/2016 0940
240-61849-41TB	TB-030716	Water	03/07/2016 0000	03/08/2016 0940
240-61849-42	MSA-SW46A-030716	Water	03/07/2016 1141	03/08/2016 0940
240-61849-43	MSA-SW47A-030716	Water	03/07/2016 1215	03/08/2016 0940
240-61849-44	MSA-SW48A-030716	Water	03/07/2016 1235	03/08/2016 0940
240-61849-45	MSA-SW49A-030716	Water	03/07/2016 1255	03/08/2016 0940

METHOD SUMMARY

Client: Tetra Tech, Inc.

Job Number: 240-61849-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL CAN	SW846 8260C	
Purge and Trap	TAL CAN		SW846 5030C
Metals (ICP/MS)	TAL CAN	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals	TAL CAN		SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Mercury (CVAA)	TAL CAN	SW846 7470A	
Preparation, Mercury	TAL CAN		SW846 7470A
Sample Filtration, Field			FIELD_FLTRD
Total Hardness (as CaCO ₃) by calculation	TAL CAN	SM SM 2340B	
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL CAN = TestAmerica Canton

Method References:

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

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

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc.

Job Number: 240-61849-1

Lab Section	Qualifier	Description
GC/MS VOA		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
	J	Indicates an Estimated Value for TICs
	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	T	Result is a tentatively identified compound (TIC) and an estimated value.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	N	This flag indicates the presumptive evidence of a compound.
Metals		
	B	Compound was found in the blank and sample.
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	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.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61849-1

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-030716	240-61849-1	93	95	94	91
MSA-SW37B-030716	240-61849-2	94	97	96	91
MSA-SW37C-030716	240-61849-3	94	97	97	92
MSA-SW37D-030716	240-61849-4	94	96	96	91
MSA-SW38A-030716	240-61849-5	95	99	97	92
MSA-SW38B-030716	240-61849-6	92	99	98	95
MSA-SW38C-030716	240-61849-7	94	98	96	91
MSA-SW38D-030716	240-61849-8	95	97	97	93
MSA-SW39A-030716	240-61849-9	96	100	97	92
MSA-SW39B-030716	240-61849-10	95	99	96	93
MSA-SW39C-030716	240-61849-11	93	96	98	93
MSA-SW39D-030716	240-61849-12	95	100	98	94
MSA-SW40A-030716	240-61849-13	93	96	97	91
MSA-SW40B-030716	240-61849-14	94	98	96	92
MSA-SW40C-030716	240-61849-15	96	98	95	91
MSA-SW40D-030716	240-61849-16	95	100	99	94
MSA-SW41A-030716	240-61849-17	96	99	95	92
MSA-SW41B-030716	240-61849-18	97	98	98	94
MSA-SW41C-030716	240-61849-19	93	98	97	92
MSA-SW41D-030716	240-61849-20	94	98	97	93
MSA-SW42A-030716	240-61849-21	93	90	92	91
MSA-SW42A-030716	240-61849-21	90	96	95	92
MSA-SW42B-030716	240-61849-22	92	90	92	89
MSA-SW42B-030716	240-61849-22	93	92	94	91
MSA-SW42C-030716	240-61849-23	93	95	91	90
MSA-SW42C-030716	240-61849-23	92	93	92	89
MSA-SW42D-030716	240-61849-24	91	92	92	91
MSA-SW42D-030716	240-61849-24	92	97	93	89
MSA-SW43A-030716	240-61849-25	92	93	94	88
MSA-SW43A-030716	240-61849-25	94	94	94	90
MSA-SW43B-030716	240-61849-26	94	99	97	94
MSA-SW43C-030716	240-61849-27	94	99	96	90
MSA-SW43D-030716	240-61849-28	96	100	96	91
MSA-SW44A-030716	240-61849-29	94	99	97	91
MSA-SW44B-030716	240-61849-30	94	99	97	90

QC LIMITS

DBFM = Dibromofluoromethane (Surr)	79-120
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	61-120

Column to be used to flag recovery values

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 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-SW44C-030716	240-61849-31	96	101	98	93
MSA-SW44D-030716	240-61849-32	93	99	97	91
MSA-SW45A-030716	240-61849-33	94	99	97	90
MSA-SW45B-030716	240-61849-34	95	101	96	92
MSA-SW45C-030716	240-61849-35	94	101	98	92
MSA-SW45D-030716	240-61849-36	94	102	96	90
MSA-SW01A-030716	240-61849-37	94	101	97	90
MSA-SW01B-030716	240-61849-38	94	102	99	92
MSA-SW01C-030716	240-61849-39	93	100	97	91
MSA-SW01D-030716	240-61849-40	93	103	98	94
TB-030716	240-61849-41	94	101	97	91
MSA-SW46A-030716	240-61849-42	95	101	96	91
MSA-SW47A-030716	240-61849-43	94	100	98	94
MSA-SW48A-030716	240-61849-44	93	102	96	91
MSA-SW49A-030716	240-61849-45	94	101	97	90
	MB 240-221113/6	91	93	93	91
	MB 240-221148/6	93	95	99	94
	MB 240-221409/6	92	94	94	88
	MB 240-221418/6	94	99	97	93
	LCS 240-221113/4	91	89	95	96
	LCS 240-221148/4	96	93	98	97
	LCS 240-221409/4	92	92	95	97
	LCS 240-221418/4	94	96	99	98
MSA-SW37A-030716 MS	240-61849-1 MS	97	97	97	96
MSA-SW45A-030716 MS	240-61849-33 MS	95	96	98	99
MSA-SW37A-030716 MSD	240-61849-1 MSD	95	94	98	97
MSA-SW45A-030716 MSD	240-61849-33 MSD	95	98	101	98

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	79-120
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	61-120

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.: 240-61849-1
 SDG No.: _____
 Sample No.: STD8260 240-220928/4 Date Analyzed: 03/10/2016 10:23
 Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXM3442.D Heated Purge: (Y/N) N
 Calibration ID: 33391

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	1230613	5.59	929499	8.28	514083	10.51	
UPPER LIMIT	2461226	6.09	1858998	8.78	1028166	11.01	
LOWER LIMIT	615307	5.09	464750	7.78	257042	10.01	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-220928/10		1240352	5.59	957781	8.28	513649	10.51
ICV 240-220928/17		1172604	5.59	889387	8.28	448222	10.52
CCVIS 240-221113/2		1193587	5.59	932975	8.28	504228	10.51
CCVIS 240-221409/2		1284813	5.59	982830	8.28	536609	10.51

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Sample No.: CCVIS 240-221113/2 Date Analyzed: 03/11/2016 09:10
 Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXM3456.D Heated Purge: (Y/N) N
 Calibration ID: 33394

	FB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	1193587	5.59	932975	8.28	504228	10.51
UPPER LIMIT	2387174	6.09	1865950	8.78	1008456	11.01
LOWER LIMIT	596794	5.09	466488	7.78	252114	10.01
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCV 240-221113/3		1203715	5.59	941131	8.28	467925 10.51
LCS 240-221113/4		1234469	5.59	932079	8.28	493693 10.51
MB 240-221113/6		1184345	5.59	915719	8.28	425606 10.52
240-61849-21	MSA-SW42A-030716	1166718	5.59	892683	8.28	429158 10.51
240-61849-22	MSA-SW42B-030716	1181932	5.59	898101	8.28	441495 10.52
240-61849-23	MSA-SW42C-030716	1172218	5.59	906238	8.28	430113 10.51
240-61849-24	MSA-SW42D-030716	1149431	5.59	892696	8.28	425259 10.51
240-61849-25	MSA-SW43A-030716	1168132	5.59	897905	8.28	442664 10.52

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

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Sample No.: CCVIS 240-221409/2 Date Analyzed: 03/14/2016 10:35
 Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXM3480.D Heated Purge: (Y/N) N
 Calibration ID: 33394

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1284813	5.59	982830	8.28	536609	10.51
UPPER LIMIT		2569626	6.09	1965660	8.78	1073218	11.01
LOWER LIMIT		642407	5.09	491415	7.78	268305	10.01
LAB SAMPLE ID		CLIENT SAMPLE ID					
LCS 240-221409/4		1302430	5.59	956672	8.28	525267	10.51
MB 240-221409/6		1238578	5.59	942063	8.28	465012	10.51
240-61849-21		MSA-SW42A-030716	1232508	5.59	903829	8.28	457369
240-61849-22		MSA-SW42B-030716	1199878	5.59	910247	8.28	450866
240-61849-23		MSA-SW42C-030716	1197386	5.59	912055	8.28	451213
240-61849-24		MSA-SW42D-030716	1225694	5.59	926214	8.28	459047
240-61849-25		MSA-SW43A-030716	1186125	5.59	904776	8.28	452191

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Sample No.: STD8260 240-220932/4 Date Analyzed: 03/10/2016 10:13
 Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXR0157.D Heated Purge: (Y/N) N
 Calibration ID: 33387

	FB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	1389833	5.76	995743	8.47	524964	10.72
UPPER LIMIT	2779666	6.26	1991486	8.97	1049928	11.22
LOWER LIMIT	694917	5.26	497872	7.97	262482	10.22
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 240-220932/8		1348792	5.76	976228	8.47	506522 10.72
ICV 240-220932/15		1331475	5.76	972848	8.47	483248 10.72
CCVIS 240-221148/2		1320905	5.76	937379	8.47	489324 10.72
CCVIS 240-221418/2		1309331	5.76	943928	8.47	500095 10.72

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Sample No.: CCVIS 240-221148/2 Date Analyzed: 03/11/2016 11:36
 Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXR0179.D Heated Purge: (Y/N) N
 Calibration ID: 33389

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1320905	5.76	937379	8.47	489324	10.72
UPPER LIMIT		2641810	6.26	1874758	8.97	978648	11.22
LOWER LIMIT		660453	5.26	468690	7.97	244662	10.22
LAB SAMPLE ID		CLIENT SAMPLE ID					
CCV 240-221148/3		1334595	5.76	958676	8.47	474166	10.72
LCS 240-221148/4		1335645	5.76	972240	8.47	506333	10.72
MB 240-221148/6		1270747	5.76	905280	8.47	460628	10.72
240-61849-1	MSA-SW37A-030716	1270051	5.76	903782	8.47	445913	10.72
240-61849-2	MSA-SW37B-030716	1262388	5.76	921333	8.47	457172	10.72
240-61849-3	MSA-SW37C-030716	1275515	5.76	896950	8.47	459590	10.72
240-61849-4	MSA-SW37D-030716	1268748	5.76	913663	8.47	454185	10.72
240-61849-5	MSA-SW38A-030716	1235239	5.76	910830	8.47	456929	10.72
240-61849-6	MSA-SW38B-030716	1270943	5.76	885527	8.47	458003	10.72
240-61849-7	MSA-SW38C-030716	1268740	5.76	908058	8.47	443119	10.72
240-61849-8	MSA-SW38D-030716	1246146	5.76	896708	8.47	451459	10.72
240-61849-9	MSA-SW39A-030716	1244295	5.76	885997	8.47	446363	10.72
240-61849-10	MSA-SW39B-030716	1255448	5.76	895791	8.47	449016	10.72
240-61849-11	MSA-SW39C-030716	1232543	5.76	869758	8.47	440778	10.72
240-61849-12	MSA-SW39D-030716	1216935	5.76	864706	8.47	445380	10.72
240-61849-13	MSA-SW40A-030716	1238412	5.76	880789	8.47	438808	10.72
240-61849-14	MSA-SW40B-030716	1228729	5.76	885428	8.47	448844	10.72
240-61849-15	MSA-SW40C-030716	1206270	5.76	869042	8.47	432383	10.72
240-61849-16	MSA-SW40D-030716	1224671	5.76	857880	8.47	444490	10.72
240-61849-17	MSA-SW41A-030716	1204047	5.76	882492	8.47	436163	10.72
240-61849-18	MSA-SW41B-030716	1204153	5.76	856892	8.47	431820	10.72
240-61849-19	MSA-SW41C-030716	1210529	5.76	866984	8.47	431866	10.72
240-61849-20	MSA-SW41D-030716	1204828	5.76	860438	8.47	433421	10.72
240-61849-1 MS	MSA-SW37A-030716 MS	1260708	5.76	912658	8.47	485490	10.72
240-61849-1 MSD	MSA-SW37A-030716 MSD	1275389	5.76	918308	8.47	487397	10.72

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Sample No.: CCVIS 240-221418/2 Date Analyzed: 03/14/2016 11:45
 Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXR0206.D Heated Purge: (Y/N) N
 Calibration ID: 33389

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1309331	5.76	943928	8.47	500095	10.72
UPPER LIMIT		2618662	6.26	1887856	8.97	1000190	11.22
LOWER LIMIT		654666	5.26	471964	7.97	250048	10.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-221418/3		1316326	5.76	944813	8.47	475520	10.72
LCS 240-221418/4		1315423	5.76	941002	8.47	512193	10.72
MB 240-221418/6		1255244	5.76	893165	8.47	455022	10.72
240-61849-33	MSA-SW45A-030716	1227687	5.76	884119	8.47	450237	10.72
240-61849-26	MSA-SW43B-030716	1234098	5.76	870624	8.47	444271	10.72
240-61849-27	MSA-SW43C-030716	1229028	5.76	885485	8.47	443671	10.72
240-61849-28	MSA-SW43D-030716	1226412	5.76	869490	8.47	442624	10.72
240-61849-29	MSA-SW44A-030716	1210048	5.76	857095	8.47	431751	10.72
240-61849-30	MSA-SW44B-030716	1233641	5.76	865814	8.47	435886	10.72
240-61849-31	MSA-SW44C-030716	1208747	5.76	862614	8.47	437688	10.72
240-61849-32	MSA-SW44D-030716	1206880	5.76	859367	8.47	416318	10.72
240-61849-34	MSA-SW45B-030716	1193913	5.76	852796	8.47	436235	10.72
240-61849-35	MSA-SW45C-030716	1203037	5.76	836179	8.47	412551	10.72
240-61849-36	MSA-SW45D-030716	1198180	5.76	855714	8.47	435938	10.72
240-61849-37	MSA-SW01A-030716	1205507	5.76	845618	8.47	421453	10.72
240-61849-38	MSA-SW01B-030716	1172249	5.76	838725	8.47	412040	10.72
240-61849-39	MSA-SW01C-030716	1195729	5.76	849396	8.47	431928	10.72
240-61849-40	MSA-SW01D-030716	1170127	5.76	835029	8.47	423212	10.72
240-61849-41	TB-030716	1177518	5.76	825634	8.47	421644	10.72
240-61849-42	MSA-SW46A-030716	1164962	5.76	835056	8.47	427740	10.72
240-61849-43	MSA-SW47A-030716	1187726	5.76	830190	8.47	426393	10.72
240-61849-44	MSA-SW48A-030716	1180071	5.76	861430	8.47	419767	10.72
240-61849-45	MSA-SW49A-030716	1176490	5.76	830860	8.47	423230	10.72
240-61849-33 MS	MSA-SW45A-030716 MS	1250256	5.76	893949	8.47	484660	10.72
240-61849-33 MSD	MSA-SW45A-030716 MSD	1266537	5.76	902880	8.47	491382	10.72

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Lab File ID: UXM3460.D Lab Sample ID: MB 240-221113/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: A3UX16 Date Analyzed: 03/11/2016 10:41
GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-221113/4	UXM3458.D	03/11/2016 09:55
MSA-SW42A-030716	240-61849-21	UXM3462.D	03/11/2016 11:26
MSA-SW42B-030716	240-61849-22	UXM3469.D	03/11/2016 15:30
MSA-SW42C-030716	240-61849-23	UXM3470.D	03/11/2016 15:53
MSA-SW42D-030716	240-61849-24	UXM3471.D	03/11/2016 16:16
MSA-SW43A-030716	240-61849-25	UXM3472.D	03/11/2016 16:39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-221113/6

Matrix: Water Lab File ID: UXM3460.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 10:41

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.: 221113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichloroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-221113/6

Matrix: Water Lab File ID: UXM3460.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 10:41

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.: 221113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-221113/6
Matrix: Water Lab File ID: UXM3460.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 10:41
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.: 221113 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-221113/6
Matrix: Water Lab File ID: UXM3460.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 10:41
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.: 221113 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-221113/6
Matrix: Water Lab File ID: UXM3460.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 10:41
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.: 221113 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXM3458.D
 Lab ID: LCS 240-221113/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	10.5	105	80-120	
1,1,1-Trichloroethane	10.0	10.4	104	77-123	
1,1,2,2-Tetrachloroethane	10.0	9.53	95	71-123	
1,1,2-Trichloro-1,2,2-trichfluoroethane	10.0	10.7	107	67-138	
1,1-Dichloroethane	10.0	9.82	98	79-125	
1,1-Dichloroethene	10.0	10.3	103	76-124	
1,1-Dichloropropene	10.0	10.1	101	80-128	
1,2,3-Trichlorobenzene	10.0	9.66	97	66-120	
1,2,3-Trichloropropane	10.0	9.51	95	72-126	
1,2,4-Trichlorobenzene	10.0	10.2	102	61-120	
1,2,4-Trimethylbenzene	10.0	10.4	104	76-120	
1,2-Dibromo-3-Chloropropane	10.0	9.78	98	50-132	
1,2-Dichlorobenzene	10.0	9.98	100	79-120	
1,2-Dichloroethane	10.0	9.66	97	80-120	
1,2-Dichloropropane	10.0	10.4	104	78-124	
1,3-Dichlorobenzene	10.0	10.4	104	79-120	
1,3-Dichloropropane	10.0	9.74	97	80-120	
1,4-Dichlorobenzene	10.0	10.0	100	79-120	
2,2-Dichloropropane	10.0	10.4	104	71-122	
2-Chloroethyl vinyl ether	10.0	9.63 J	96	54-139	
2-Chlorotoluene	10.0	10.5	105	80-120	
2-Hexanone	20.0	16.4	82	55-141	
Bromobenzene	10.0	10.1	101	80-120	
Bromochloromethane	10.0	9.71	97	80-120	
4-Chlorotoluene	10.0	10.4	104	80-120	
p-Isopropyltoluene	10.0	10.4	104	77-120	
Benzene	10.0	9.86	99	80-120	
Bromoform	10.0	10.7	107	56-122	
Bromomethane	10.0	9.73	97	38-132	
Carbon disulfide	10.0	9.96	100	65-144	
Carbon tetrachloride	10.0	10.8	108	77-131	
Chlorobenzene	10.0	10.1	101	80-120	
Chloroethane	10.0	9.68	97	36-126	
Chloroform	10.0	10.1	101	80-120	
Chloromethane	10.0	8.84	88	48-133	
cis-1,2-Dichloroethene	10.0	10.4	104	79-120	
cis-1,3-Dichloropropene	10.0	9.96	100	74-126	
Hexachlorobutadiene	10.0	9.92	99	62-120	
Dibromomethane	10.0	9.71	97	80-120	
Bromodichloromethane	10.0	10.3	103	80-120	
Dichlorodifluoromethane	10.0	7.77	78	23-136	

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.: 240-61849-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXM3458.D
 Lab ID: LCS 240-221113/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethylbenzene	10.0	10.2	102	80-120	
1,2-Dibromoethane	10.0	9.94	99	80-120	
Naphthalene	10.0	9.65	96	53-121	
m-Xylene & p-Xylene	10.0	10.2	102	80-120	
n-Butylbenzene	10.0	10.1	101	74-120	
Isopropylbenzene	10.0	10.5	105	77-120	
n-Propylbenzene	10.0	10.4	104	79-123	
4-Methyl-2-pentanone	20.0	18.2	91	64-135	
sec-Butylbenzene	10.0	10.4	104	77-120	
Methyl tert-butyl ether	10.0	9.69	97	69-121	
Methylene Chloride	10.0	10.1	101	77-129	
o-Xylene	10.0	10.1	101	80-120	
Styrene	10.0	10.4	104	76-122	
tert-Butylbenzene	10.0	10.2	102	77-121	
Tetrachloroethene	10.0	10.1	101	78-121	
Toluene	10.0	10.1	101	80-120	
trans-1,2-Dichloroethene	10.0	10.5	105	80-124	
trans-1,3-Dichloropropene	10.0	9.51	95	75-131	
Trichloroethene	10.0	10.2	102	80-121	
Trichlorofluoromethane	10.0	10.9	109	61-133	
Vinyl acetate	10.0	7.70	77	27-160	
Vinyl chloride	10.0	9.49	95	52-121	
tert-Butyl alcohol	100	80.4	80	38-144	
Xylenes, Total	20.0	20.3	102	80-120	
Dibromochloromethane	10.0	9.94	99	74-120	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab File ID: UXR0183.D Lab Sample ID: MB 240-221148/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX17 Date Analyzed: 03/11/2016 13:06
 GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-221148/4	UXR0181.D	03/11/2016 12:21
MSA-SW37A-030716	240-61849-1	UXR0184.D	03/11/2016 13:40
MSA-SW37B-030716	240-61849-2	UXR0185.D	03/11/2016 14:03
MSA-SW37C-030716	240-61849-3	UXR0186.D	03/11/2016 14:25
MSA-SW37D-030716	240-61849-4	UXR0187.D	03/11/2016 14:48
MSA-SW38A-030716	240-61849-5	UXR0188.D	03/11/2016 15:10
MSA-SW38B-030716	240-61849-6	UXR0189.D	03/11/2016 15:32
MSA-SW38C-030716	240-61849-7	UXR0190.D	03/11/2016 15:55
MSA-SW38D-030716	240-61849-8	UXR0191.D	03/11/2016 16:17
MSA-SW39A-030716	240-61849-9	UXR0192.D	03/11/2016 16:39
MSA-SW39B-030716	240-61849-10	UXR0193.D	03/11/2016 17:02
MSA-SW39C-030716	240-61849-11	UXR0194.D	03/11/2016 17:24
MSA-SW39D-030716	240-61849-12	UXR0195.D	03/11/2016 17:47
MSA-SW40A-030716	240-61849-13	UXR0196.D	03/11/2016 18:09
MSA-SW40B-030716	240-61849-14	UXR0197.D	03/11/2016 18:32
MSA-SW40C-030716	240-61849-15	UXR0198.D	03/11/2016 18:54
MSA-SW40D-030716	240-61849-16	UXR0199.D	03/11/2016 19:16
MSA-SW41A-030716	240-61849-17	UXR0200.D	03/11/2016 19:39
MSA-SW41B-030716	240-61849-18	UXR0201.D	03/11/2016 20:01
MSA-SW41C-030716	240-61849-19	UXR0202.D	03/11/2016 20:23
MSA-SW41D-030716	240-61849-20	UXR0203.D	03/11/2016 20:46
MSA-SW37A-030716 MS	240-61849-1 MS	UXR0204.D	03/11/2016 21:08
MSA-SW37A-030716 MSD	240-61849-1 MSD	UXR0205.D	03/11/2016 21:30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-221148/6

Matrix: Water Lab File ID: UXR0183.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 13:06

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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 240-221148/6</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0183.D</u>
Analysis Method: <u>8260C</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 13:06</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>221148</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-221148/6
 Matrix: Water Lab File ID: UXR0183.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 13:06
 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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		78-125
460-00-4	4-Bromofluorobenzene (Surr)	94		61-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		79-120

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-61849-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 240-221148/6</u>
Matrix: <u>Water</u>	Lab File ID: <u>UXR0183.D</u>
Analysis Method: <u>8260C</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/11/2016 13:06</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>221148</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
	Tentatively Identified Compound		None	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-221148/6
Matrix: Water Lab File ID: UXR0183.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 03/11/2016 13:06
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.: 221148 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR0181.D
 Lab ID: LCS 240-221148/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	10.8	108	80-120	
1,1,1-Trichloroethane	10.0	10.4	104	77-123	
1,1,2,2-Tetrachloroethane	10.0	11.0	110	71-123	
1,1,2-Trichloro-1,2,2-trichflu oroethane	10.0	11.2	112	67-138	
1,1-Dichloroethane	10.0	10.1	101	79-125	
1,1-Dichloroethene	10.0	10.8	108	76-124	
1,1-Dichloropropene	10.0	10.3	103	80-128	
1,2,3-Trichlorobenzene	10.0	8.40	84	66-120	
1,2,3-Trichloropropane	10.0	11.1	111	72-126	
1,2,4-Trichlorobenzene	10.0	9.22	92	61-120	
1,2,4-Trimethylbenzene	10.0	10.6	106	76-120	
1,2-Dibromo-3-Chloropropane	10.0	10.8	108	50-132	
1,2-Dichlorobenzene	10.0	10.2	102	79-120	
1,2-Dichloroethane	10.0	10.3	103	80-120	
1,2-Dichloropropane	10.0	10.7	107	78-124	
1,3-Dichlorobenzene	10.0	10.5	105	79-120	
1,3-Dichloropropane	10.0	10.4	104	80-120	
1,4-Dichlorobenzene	10.0	10.4	104	79-120	
2,2-Dichloropropane	10.0	9.85	98	71-122	
2-Chloroethyl vinyl ether	10.0	10.7	107	54-139	
2-Chlorotoluene	10.0	10.6	106	80-120	
2-Hexanone	20.0	21.1	106	55-141	
Bromobenzene	10.0	10.4	104	80-120	
Bromochloromethane	10.0	10.4	104	80-120	
4-Chlorotoluene	10.0	10.8	108	80-120	
p-Isopropyltoluene	10.0	10.6	106	77-120	
Acetone	20.0	20.5	103	34-148	
Benzene	10.0	10.2	102	80-120	
Bromoform	10.0	10.2	102	56-122	
Bromomethane	10.0	8.33	83	38-132	
Carbon disulfide	10.0	11.3	113	65-144	
Carbon tetrachloride	10.0	11.1	111	77-131	
Chlorobenzene	10.0	10.4	104	80-120	
Chloroethane	10.0	8.78	88	36-126	
Chloroform	10.0	10.6	106	80-120	
Chloromethane	10.0	8.78	88	48-133	
cis-1,2-Dichloroethene	10.0	10.6	106	79-120	
cis-1,3-Dichloropropene	10.0	10.5	105	74-126	
Hexachlorobutadiene	10.0	8.62	86	62-120	
Dibromomethane	10.0	10.8	108	80-120	
Bromodichloromethane	10.0	10.4	104	80-120	

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.: 240-61849-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR0181.D
 Lab ID: LCS 240-221148/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	6.96	70	23-136	
Ethylbenzene	10.0	10.6	106	80-120	
1,2-Dibromoethane	10.0	11.2	112	80-120	
Naphthalene	10.0	9.31	93	53-121	
m-Xylene & p-Xylene	10.0	10.6	106	80-120	
n-Butylbenzene	10.0	10.3	103	74-120	
Isopropylbenzene	10.0	10.7	107	77-120	
n-Propylbenzene	10.0	10.7	107	79-123	
2-Butanone	20.0	23.4	117	56-138	
4-Methyl-2-pentanone	20.0	21.5	108	64-135	
sec-Butylbenzene	10.0	10.3	103	77-120	
Methyl tert-butyl ether	10.0	10.4	104	69-121	
Methylene Chloride	10.0	10.7	107	77-129	
o-Xylene	10.0	10.6	106	80-120	
Styrene	10.0	10.9	109	76-122	
tert-Butylbenzene	10.0	10.3	103	77-121	
Tetrachloroethene	10.0	10.7	107	78-121	
Toluene	10.0	10.7	107	80-120	
trans-1,2-Dichloroethene	10.0	11.0	110	80-124	
trans-1,3-Dichloropropene	10.0	9.43	94	75-131	
Trichloroethene	10.0	10.5	105	80-121	
Trichlorofluoromethane	10.0	9.99	100	61-133	
Vinyl acetate	10.0	8.93	89	27-160	
Vinyl chloride	10.0	9.16	92	52-121	
tert-Butyl alcohol	100	96.9	97	38-144	
Xylenes, Total	20.0	21.2	106	80-120	
Dibromochloromethane	10.0	10.9	109	74-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: UXR0204.D
Lab ID: 240-61849-1 MS Client ID: MSA-SW37A-030716 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	1.0 U	10.2	102	72-120	
1,1,1-Trichloroethane	10.0	1.0 U	9.50	95	69-122	
1,1,2,2-Tetrachloroethane	10.0	1.0 U	10.9	109	61-130	
1,1,2-Trichloro-1,2,2-trichflu oroethane	10.0	1.0 U	8.87	89	44-140	
1,1-Dichloroethane	10.0	1.0 U	9.62	96	73-124	
1,1-Dichloroethene	10.0	1.0 U	10.3	103	67-124	
1,1-Dichloropropene	10.0	1.0 U	9.55	95	81-126	
1,2,3-Trichlorobenzene	10.0	1.0 U	8.02	80	46-120	
1,2,3-Trichloropropane	10.0	1.0 U	10.9	109	58-135	
1,2,4-Trichlorobenzene	10.0	1.0 U	8.33	83	48-120	
1,2,4-Trimethylbenzene	10.0	1.0 U	9.56	96	64-122	
1,2-Dibromo-3-Chloropropane	10.0	5.0 U	10.4	104	42-130	
1,2-Dichlorobenzene	10.0	1.0 U	9.71	97	67-118	
1,2-Dichloroethane	10.0	1.0 U	10.2	102	74-125	
1,2-Dichloropropane	10.0	1.0 U	10.4	104	73-122	
1,3-Dichlorobenzene	10.0	1.0 U	9.82	98	65-120	
1,3-Dichloropropane	10.0	1.0 U	10.5	105	59-133	
1,4-Dichlorobenzene	10.0	1.0 U	9.88	99	66-120	
2,2-Dichloropropane	10.0	1.0 U	7.91	79	48-126	
2-Chloroethyl vinyl ether	10.0	10 U	10 U	0	10-150	F1
2-Chlorotoluene	10.0	1.0 U	9.62	96	70-122	
2-Hexanone	20.0	5.0 U	22.6	113	49-142	
Bromobenzene	10.0	1.0 U	10.1	101	73-120	
Bromochloromethane	10.0	1.0 U	10.3	103	60-132	
4-Chlorotoluene	10.0	1.0 U	9.74	97	74-120	
p-Isopropyltoluene	10.0	1.0 U	9.33	93	61-123	
Acetone	20.0	5.0 U	21.2	106	32-126	
Benzene	10.0	1.0 U	10.1	101	73-121	
Bromoform	10.0	1.0 U	9.60	96	45-121	
Bromomethane	10.0	1.0 U	8.26	83	26-136	
Carbon disulfide	10.0	1.0 U	9.45	94	54-144	
Carbon tetrachloride	10.0	1.0 U	9.84	98	65-129	
Chlorobenzene	10.0	1.0 U	10.2	102	72-120	
Chloroethane	10.0	1.0 U	8.96	90	27-131	
Chloroform	10.0	1.0 U	10.3	103	73-121	
Chloromethane	10.0	1.0 U	8.90	89	39-134	
cis-1,2-Dichloroethene	10.0	2.9	13.2	103	66-124	
cis-1,3-Dichloropropene	10.0	1.0 U	9.28	93	60-120	
Hexachlorobutadiene	10.0	1.0 U	6.83	68	48-120	
Dibromomethane	10.0	1.0 U	10.7	107	63-134	
Bromodichloromethane	10.0	1.0 U	10.1	101	72-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR0204.D
 Lab ID: 240-61849-1 MS Client ID: MSA-SW37A-030716 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	1.0 U	6.62	66	14-137	
Ethylbenzene	10.0	1.0 U	9.77	98	68-121	
1,2-Dibromoethane	10.0	1.0 U	10.9	109	69-125	
Naphthalene	10.0	1.0 U	8.98	90	38-128	
m-Xylene & p-Xylene	10.0	2.0 U	10.1	101	66-123	
n-Butylbenzene	10.0	1.0 U	8.59	86	54-126	
Isopropylbenzene	10.0	1.0 U	9.75	97	61-122	
n-Propylbenzene	10.0	1.0 U	9.39	94	63-129	
2-Butanone	20.0	5.0 U	22.5	112	49-132	
4-Methyl-2-pentanone	20.0	5.0 U	21.7	108	58-136	
sec-Butylbenzene	10.0	1.0 U	8.85	89	61-123	
Methyl tert-butyl ether	10.0	1.0 U	9.74	97	61-121	
Methylene Chloride	10.0	1.0 U	10.0	100	70-124	
o-Xylene	10.0	1.0 U	9.84	98	68-121	
Styrene	10.0	1.0 U	10.2	102	64-126	
tert-Butylbenzene	10.0	1.0 U	9.20	92	63-122	
Tetrachloroethene	10.0	1.0 U	9.67	97	59-125	
Toluene	10.0	1.0 U	10.0	100	72-122	
trans-1,2-Dichloroethene	10.0	1.0 U	10.4	104	72-125	
trans-1,3-Dichloropropene	10.0	1.0 U	8.33	83	58-132	
Trichloroethene	10.0	0.99 J	11.2	102	61-129	
Trichlorofluoromethane	10.0	1.0 U	9.19	92	49-133	
Vinyl acetate	10.0	2.0 U	7.59	76	26-189	
Vinyl chloride	10.0	3.0	12.1	92	44-122	
tert-Butyl alcohol	100	20 U	94.1	94	70-130	
Xylenes, Total	20.0	2.0 U	19.9	100	67-122	
Dibromochloromethane	10.0	1.0 U	10.3	103	62-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: UXR0205.D
Lab ID: 240-61849-1 MSD Client ID: MSA-SW37A-030716 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	10.0	9.62	96	6	22	72-120	
1,1,1-Trichloroethane	10.0	9.16	92	4	14	69-122	
1,1,2,2-Tetrachloroethane	10.0	10.3	103	6	18	61-130	
1,1,2-Trichloro-1,2,2-trichfluoroethane	10.0	8.92	89	1	35	44-140	
1,1-Dichloroethane	10.0	9.20	92	4	14	73-124	
1,1-Dichloroethene	10.0	9.76	98	5	24	67-124	
1,1-Dichloropropene	10.0	9.22	92	3	11	81-126	
1,2,3-Trichlorobenzene	10.0	7.97	80	1	35	46-120	
1,2,3-Trichloropropane	10.0	10.4	104	5	25	58-135	
1,2,4-Trichlorobenzene	10.0	8.13	81	2	28	48-120	
1,2,4-Trimethylbenzene	10.0	9.20	92	4	14	64-122	
1,2-Dibromo-3-Chloropropane	10.0	10.1	101	3	24	42-130	
1,2-Dichlorobenzene	10.0	9.40	94	3	15	67-118	
1,2-Dichloroethane	10.0	9.85	98	4	24	74-125	
1,2-Dichloropropane	10.0	9.81	98	6	15	73-122	
1,3-Dichlorobenzene	10.0	9.43	94	4	15	65-120	
1,3-Dichloropropane	10.0	10.1	101	4	35	59-133	
1,4-Dichlorobenzene	10.0	9.47	95	4	16	66-120	
2,2-Dichloropropane	10.0	7.73	77	2	30	48-126	
2-Chloroethyl vinyl ether	10.0	10 U	0	NC	30	10-150	F1
2-Chlorotoluene	10.0	9.30	93	3	18	70-122	
2-Hexanone	20.0	22.1	110	2	27	49-142	
Bromobenzene	10.0	9.52	95	6	13	73-120	
Bromochloromethane	10.0	9.94	99	4	35	60-132	
4-Chlorotoluene	10.0	9.61	96	1	15	74-120	
p-Isopropyltoluene	10.0	8.99	90	4	27	61-123	
Acetone	20.0	19.8	99	7	28	32-126	
Benzene	10.0	9.64	96	5	13	73-121	
Bromoform	10.0	9.32	93	3	19	45-121	
Bromomethane	10.0	9.68	97	16	35	26-136	
Carbon disulfide	10.0	9.14	91	3	34	54-144	
Carbon tetrachloride	10.0	9.30	93	6	20	65-129	
Chlorobenzene	10.0	9.76	98	4	15	72-120	
Chloroethane	10.0	9.62	96	7	35	27-131	
Chloroform	10.0	9.74	97	5	17	73-121	
Chloromethane	10.0	8.67	87	3	20	39-134	
cis-1,2-Dichloroethene	10.0	12.7	98	4	22	66-124	
cis-1,3-Dichloropropene	10.0	8.79	88	5	21	60-120	
Hexachlorobutadiene	10.0	7.25	72	6	34	48-120	
Dibromomethane	10.0	10.1	101	5	35	63-134	
Bromodichloromethane	10.0	9.53	95	6	19	72-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR0205.D
 Lab ID: 240-61849-1 MSD Client ID: MSA-SW37A-030716 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Dichlorodifluoromethane	10.0	6.27	63	5	34	14-137	
Ethylbenzene	10.0	9.39	94	4	16	68-121	
1,2-Dibromoethane	10.0	10.7	107	2	24	69-125	
Naphthalene	10.0	9.14	91	2	35	38-128	
m-Xylene & p-Xylene	10.0	9.72	97	3	15	66-123	
n-Butylbenzene	10.0	8.43	84	2	33	54-126	
Isopropylbenzene	10.0	9.31	93	5	20	61-122	
n-Propylbenzene	10.0	9.17	92	2	29	63-129	
2-Butanone	20.0	21.2	106	6	19	49-132	
4-Methyl-2-pentanone	20.0	20.6	103	5	32	58-136	
sec-Butylbenzene	10.0	8.62	86	3	29	61-123	
Methyl tert-butyl ether	10.0	9.30	93	5	12	61-121	
Methylene Chloride	10.0	9.38	94	7	14	70-124	
o-Xylene	10.0	9.59	96	3	14	68-121	
Styrene	10.0	9.80	98	4	15	64-126	
tert-Butylbenzene	10.0	8.92	89	3	24	63-122	
Tetrachloroethene	10.0	9.35	94	3	20	59-125	
Toluene	10.0	9.78	98	2	15	72-122	
trans-1,2-Dichloroethene	10.0	10.0	100	4	25	72-125	
trans-1,3-Dichloropropene	10.0	8.04	80	4	22	58-132	
Trichloroethene	10.0	10.6	96	6	14	61-129	
Trichlorofluoromethane	10.0	9.64	96	5	25	49-133	
Vinyl acetate	10.0	7.18	72	6	15	26-189	
Vinyl chloride	10.0	12.0	91	1	35	44-122	
tert-Butyl alcohol	100	92.8	93	1	30	70-130	
Xylenes, Total	20.0	19.3	97	3	14	67-122	
Dibromochloromethane	10.0	9.80	98	5	19	62-122	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Lab File ID: UXM3484.D Lab Sample ID: MB 240-221409/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: A3UX16 Date Analyzed: 03/14/2016 12:06
GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-221409/4	UXM3482.D	03/14/2016 11:21
MSA-SW42A-030716	240-61849-21	UXM3485.D	03/14/2016 12:41
MSA-SW42B-030716	240-61849-22	UXM3490.D	03/14/2016 14:35
MSA-SW42C-030716	240-61849-23	UXM3491.D	03/14/2016 14:58
MSA-SW42D-030716	240-61849-24	UXM3492.D	03/14/2016 15:21
MSA-SW43A-030716	240-61849-25	UXM3493.D	03/14/2016 15:44

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-221409/6
 Matrix: Water Lab File ID: UXM3484.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 12:06
 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.: 221409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	0.94
78-93-3	2-Butanone	5.0	U	5.0	0.53

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		78-125
460-00-4	4-Bromofluorobenzene (Surr)	88		61-120
2037-26-5	Toluene-d8 (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-221409/6
Matrix: Water Lab File ID: UXM3484.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 12:06
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.: 221409 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: UXM3482.D
Lab ID: LCS 240-221409/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	20.0	14.1	71	34-148	
2-Butanone	20.0	17.5	88	56-138	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab File ID: UXR0210.D Lab Sample ID: MB 240-221418/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX17 Date Analyzed: 03/14/2016 13:15
 GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-221418/4	UXR0208.D	03/14/2016 12:30
MSA-SW45A-030716	240-61849-33	UXR0212.D	03/14/2016 14:00
MSA-SW43B-030716	240-61849-26	UXR0213.D	03/14/2016 14:22
MSA-SW43C-030716	240-61849-27	UXR0214.D	03/14/2016 14:45
MSA-SW43D-030716	240-61849-28	UXR0215.D	03/14/2016 15:07
MSA-SW44A-030716	240-61849-29	UXR0216.D	03/14/2016 15:30
MSA-SW44B-030716	240-61849-30	UXR0217.D	03/14/2016 15:52
MSA-SW44C-030716	240-61849-31	UXR0218.D	03/14/2016 16:14
MSA-SW44D-030716	240-61849-32	UXR0219.D	03/14/2016 16:37
MSA-SW45B-030716	240-61849-34	UXR0220.D	03/14/2016 16:59
MSA-SW45C-030716	240-61849-35	UXR0221.D	03/14/2016 17:21
MSA-SW45D-030716	240-61849-36	UXR0222.D	03/14/2016 17:44
MSA-SW01A-030716	240-61849-37	UXR0223.D	03/14/2016 18:06
MSA-SW01B-030716	240-61849-38	UXR0224.D	03/14/2016 18:28
MSA-SW01C-030716	240-61849-39	UXR0225.D	03/14/2016 18:51
MSA-SW01D-030716	240-61849-40	UXR0226.D	03/14/2016 19:13
TB-030716	240-61849-41	UXR0227.D	03/14/2016 19:35
MSA-SW46A-030716	240-61849-42	UXR0228.D	03/14/2016 19:58
MSA-SW47A-030716	240-61849-43	UXR0229.D	03/14/2016 20:20
MSA-SW48A-030716	240-61849-44	UXR0230.D	03/14/2016 20:42
MSA-SW49A-030716	240-61849-45	UXR0231.D	03/14/2016 21:04
MSA-SW45A-030716 MS	240-61849-33 MS	UXR0232.D	03/14/2016 21:27
MSA-SW45A-030716 MSD	240-61849-33 MSD	UXR0233.D	03/14/2016 21:49

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-221418/6

Matrix: Water Lab File ID: UXR0210.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 13:15

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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.45
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.30
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.82
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.25
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.23
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.19
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.27
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.26
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.59
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.40
591-78-6	2-Hexanone	5.0	U	5.0	0.48
108-86-1	Bromobenzene	1.0	U	1.0	0.35
74-97-5	Bromochloromethane	1.0	U	1.0	0.50
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.29
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.43
67-64-1	Acetone	5.0	U	5.0	0.94
71-43-2	Benzene	1.0	U	1.0	0.35
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.44
75-15-0	Carbon disulfide	1.0	U	1.0	0.38
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.43
108-90-7	Chlorobenzene	1.0	U	1.0	0.25
75-00-3	Chloroethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-221418/6
 Matrix: Water Lab File ID: UXR0210.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 13:15
 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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.25
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.35
74-95-3	Dibromomethane	1.0	U	1.0	0.42
75-27-4	Bromodichloromethane	1.0	U	1.0	0.29
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.32
100-41-4	Ethylbenzene	1.0	U	1.0	0.25
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.32
108-20-3	Diisopropyl ether	5.0	U	5.0	0.50
91-20-3	Naphthalene	1.0	U	1.0	0.45
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.31
98-82-8	Isopropylbenzene	1.0	U	1.0	0.35
103-65-1	n-Propylbenzene	1.0	U	1.0	0.40
78-93-3	2-Butanone	5.0	U	5.0	0.53
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.99
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.48
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.20
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.30
75-09-2	Methylene Chloride	0.825	J	1.0	0.33
95-47-6	o-Xylene	1.0	U	1.0	0.25
100-42-5	Styrene	1.0	U	1.0	0.45
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.23
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.41
127-18-4	Tetrachloroethene	1.0	U	1.0	0.31
108-88-3	Toluene	1.0	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.22
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.49
108-05-4	Vinyl acetate	2.0	U	2.0	0.41
75-01-4	Vinyl chloride	0.50	U	0.50	0.29
75-65-0	tert-Butyl alcohol	20	U	20	4.9
1330-20-7	Xylenes, Total	2.0	U	2.0	0.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-221418/6
 Matrix: Water Lab File ID: UXR0210.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 13:15
 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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-125
460-00-4	4-Bromofluorobenzene (Surr)	93		61-120
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		79-120

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-221418/6
Matrix: Water Lab File ID: UXR0210.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 13:15
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.: 221418 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-221418/6
Matrix: Water Lab File ID: UXR0210.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 03/14/2016 13:15
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.: 221418 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q
75-45-6	Chlorodifluoromethane TIC		1.0	U

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR0208.D
 Lab ID: LCS 240-221418/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	10.3	103	80-120	
1,1,1-Trichloroethane	10.0	9.56	96	77-123	
1,1,2,2-Tetrachloroethane	10.0	11.2	112	71-123	
1,1,2-Trichloro-1,2,2-trichflu oroethane	10.0	10.6	106	67-138	
1,1-Dichloroethane	10.0	9.51	95	79-125	
1,1-Dichloroethene	10.0	10.5	105	76-124	
1,1-Dichloropropene	10.0	10.2	102	80-128	
1,2,3-Trichlorobenzene	10.0	8.32	83	66-120	
1,2,3-Trichloropropane	10.0	11.2	112	72-126	
1,2,4-Trichlorobenzene	10.0	8.72	87	61-120	
1,2,4-Trimethylbenzene	10.0	9.89	99	76-120	
1,2-Dibromo-3-Chloropropane	10.0	11.8	118	50-132	
1,2-Dichlorobenzene	10.0	9.74	97	79-120	
1,2-Dichloroethane	10.0	10.4	104	80-120	
1,2-Dichloropropane	10.0	10.4	104	78-124	
1,3-Dichlorobenzene	10.0	9.81	98	79-120	
1,3-Dichloropropane	10.0	10.5	105	80-120	
1,4-Dichlorobenzene	10.0	9.91	99	79-120	
2,2-Dichloropropane	10.0	8.43	84	71-122	
2-Chloroethyl vinyl ether	10.0	10.4	104	54-139	
2-Chlorotoluene	10.0	9.86	99	80-120	
2-Hexanone	20.0	24.6	123	55-141	
Bromobenzene	10.0	10.1	101	80-120	
Bromochloromethane	10.0	10.1	101	80-120	
4-Chlorotoluene	10.0	9.88	99	80-120	
p-Isopropyltoluene	10.0	9.92	99	77-120	
Acetone	20.0	20.9	105	34-148	
Benzene	10.0	10.1	101	80-120	
Bromoform	10.0	11.0	110	56-122	
Bromomethane	10.0	5.54	55	38-132	
Carbon disulfide	10.0	10.1	101	65-144	
Carbon tetrachloride	10.0	10.2	102	77-131	
Chlorobenzene	10.0	10.0	100	80-120	
Chloroethane	10.0	7.78	78	36-126	
Chloroform	10.0	10.1	101	80-120	
Chloromethane	10.0	8.40	84	48-133	
cis-1,2-Dichloroethene	10.0	10.1	101	79-120	
cis-1,3-Dichloropropene	10.0	10.1	101	74-126	
Hexachlorobutadiene	10.0	7.59	76	62-120	
Dibromomethane	10.0	11.0	110	80-120	
Bromodichloromethane	10.0	10.1	101	80-120	

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.: 240-61849-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR0208.D
 Lab ID: LCS 240-221418/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	5.69	57	23-136	
Ethylbenzene	10.0	10.1	101	80-120	
1,2-Dibromoethane	10.0	11.3	113	80-120	
Naphthalene	10.0	9.77	98	53-121	
m-Xylene & p-Xylene	10.0	10.2	102	80-120	
n-Butylbenzene	10.0	9.48	95	74-120	
Isopropylbenzene	10.0	10.2	102	77-120	
n-Propylbenzene	10.0	10.1	101	79-123	
2-Butanone	20.0	25.4	127	56-138	
4-Methyl-2-pentanone	20.0	23.7	119	64-135	
sec-Butylbenzene	10.0	9.70	97	77-120	
Methyl tert-butyl ether	10.0	10.4	104	69-121	
Methylene Chloride	10.0	10.9	109	77-129	
o-Xylene	10.0	10.0	100	80-120	
Styrene	10.0	10.5	105	76-122	
tert-Butylbenzene	10.0	9.98	100	77-121	
Tetrachloroethene	10.0	10.2	102	78-121	
Toluene	10.0	10.1	101	80-120	
trans-1,2-Dichloroethene	10.0	10.5	105	80-124	
trans-1,3-Dichloropropene	10.0	8.94	89	75-131	
Trichloroethene	10.0	10.3	103	80-121	
Trichlorofluoromethane	10.0	9.94	99	61-133	
Vinyl acetate	10.0	8.91	89	27-160	
Vinyl chloride	10.0	8.47	85	52-121	
tert-Butyl alcohol	100	116	116	38-144	
Xylenes, Total	20.0	20.2	101	80-120	
Dibromochloromethane	10.0	10.8	108	74-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: UXR0232.D
Lab ID: 240-61849-33 MS Client ID: MSA-SW45A-030716 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	1.0 U	10.4	104	72-120	
1,1,1-Trichloroethane	10.0	1.0 U	9.41	94	69-122	
1,1,2,2-Tetrachloroethane	10.0	1.0 U	12.0	120	61-130	
1,1,2-Trichloro-1,2,2-trichflu oroethane	10.0	1.0 U	9.63	96	44-140	
1,1-Dichloroethane	10.0	1.0 U	9.88	99	73-124	
1,1-Dichloroethene	10.0	1.0 U	11.0	110	67-124	
1,1-Dichloropropene	10.0	1.0 U	10.1	101	81-126	
1,2,3-Trichlorobenzene	10.0	1.0 U	8.39	84	46-120	
1,2,3-Trichloropropane	10.0	1.0 U	12.3	123	58-135	
1,2,4-Trichlorobenzene	10.0	1.0 U	8.36	84	48-120	
1,2,4-Trimethylbenzene	10.0	1.0 U	9.76	98	64-122	
1,2-Dibromo-3-Chloropropane	10.0	5.0 U	12.2	122	42-130	
1,2-Dichlorobenzene	10.0	1.0 U	10.1	101	67-118	
1,2-Dichloroethane	10.0	1.0 U	10.9	109	74-125	
1,2-Dichloropropane	10.0	1.0 U	10.8	108	73-122	
1,3-Dichlorobenzene	10.0	1.0 U	9.87	99	65-120	
1,3-Dichloropropane	10.0	1.0 U	10.9	109	59-133	
1,4-Dichlorobenzene	10.0	1.0 U	10.2	102	66-120	
2,2-Dichloropropane	10.0	1.0 U	6.73	67	48-126	
2-Chloroethyl vinyl ether	10.0	10 U	10 U	0	10-150	F1
2-Chlorotoluene	10.0	1.0 U	9.95	100	70-122	
2-Hexanone	20.0	5.0 U	26.1	131	49-142	
Bromobenzene	10.0	1.0 U	10.0	100	73-120	
Bromochloromethane	10.0	1.0 U	10.5	105	60-132	
4-Chlorotoluene	10.0	1.0 U	9.91	99	74-120	
p-Isopropyltoluene	10.0	1.0 U	9.42	94	61-123	
Acetone	20.0	5.0 U	24.6	123	32-126	
Benzene	10.0	1.0 U	10.5	105	73-121	
Bromoform	10.0	1.0 U	10.1	101	45-121	
Bromomethane	10.0	1.0 U	6.20	62	26-136	
Carbon disulfide	10.0	1.0 U	9.79	98	54-144	
Carbon tetrachloride	10.0	1.0 U	9.91	99	65-129	
Chlorobenzene	10.0	1.0 U	10.3	103	72-120	
Chloroethane	10.0	1.0 U	7.87	79	27-131	
Chloroform	10.0	1.0 U	10.6	106	73-121	
Chloromethane	10.0	1.0 U	8.59	86	39-134	
cis-1,2-Dichloroethene	10.0	1.0 U	10.6	106	66-124	
cis-1,3-Dichloropropene	10.0	1.0 U	9.24	92	60-120	
Hexachlorobutadiene	10.0	1.0 U	6.61	66	48-120	
Dibromomethane	10.0	1.0 U	11.2	112	63-134	
Bromodichloromethane	10.0	1.0 U	10.1	101	72-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR0232.D
 Lab ID: 240-61849-33 MS Client ID: MSA-SW45A-030716 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	1.0 U	4.90	49	14-137	
Ethylbenzene	10.0	1.0 U	9.99	100	68-121	
1,2-Dibromoethane	10.0	1.0 U	11.8	118	69-125	
Naphthalene	10.0	1.0 U	10.3	103	38-128	
m-Xylene & p-Xylene	10.0	2.0 U	10.3	103	66-123	
n-Butylbenzene	10.0	1.0 U	8.77	88	54-126	
Isopropylbenzene	10.0	1.0 U	10.0	100	61-122	
n-Propylbenzene	10.0	1.0 U	9.73	97	63-129	
2-Butanone	20.0	5.0 U	28.1	140	49-132	F1
4-Methyl-2-pentanone	20.0	5.0 U	25.3	126	58-136	
sec-Butylbenzene	10.0	1.0 U	9.01	90	61-123	
Methyl tert-butyl ether	10.0	1.0 U	10.0	100	61-121	
Methylene Chloride	10.0	1.0 U	10.2	102	70-124	
o-Xylene	10.0	1.0 U	10.1	101	68-121	
Styrene	10.0	1.0 U	10.5	105	64-126	
tert-Butylbenzene	10.0	1.0 U	9.25	92	63-122	
Tetrachloroethene	10.0	1.0 U	10.3	103	59-125	
Toluene	10.0	1.0 U	10.6	106	72-122	
trans-1,2-Dichloroethene	10.0	1.0 U	10.9	109	72-125	
trans-1,3-Dichloropropene	10.0	1.0 U	8.35	84	58-132	
Trichloroethene	10.0	1.0 U	10.7	107	61-129	
Trichlorofluoromethane	10.0	1.0 U	9.45	95	49-133	
Vinyl acetate	10.0	2.0 U	8.11	81	26-189	
Vinyl chloride	10.0	0.50 U	8.58	86	44-122	
tert-Butyl alcohol	100	20 U	112	112	70-130	
Xylenes, Total	20.0	2.0 U	20.4	102	67-122	
Dibromochloromethane	10.0	1.0 U	10.5	105	62-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: UXR0233.D
Lab ID: 240-61849-33 MSD Client ID: MSA-SW45A-030716 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	10.0	10.1	101	3	22	72-120	
1,1,1-Trichloroethane	10.0	9.11	91	3	14	69-122	
1,1,2,2-Tetrachloroethane	10.0	11.7	117	2	18	61-130	
1,1,2-Trichloro-1,2,2-trichfluoroethane	10.0	9.16	92	5	35	44-140	
1,1-Dichloroethane	10.0	9.51	95	4	14	73-124	
1,1-Dichloroethene	10.0	10.5	105	4	24	67-124	
1,1-Dichloropropene	10.0	9.78	98	3	11	81-126	
1,2,3-Trichlorobenzene	10.0	8.70	87	4	35	46-120	
1,2,3-Trichloropropane	10.0	12.0	120	3	25	58-135	
1,2,4-Trichlorobenzene	10.0	8.51	85	2	28	48-120	
1,2,4-Trimethylbenzene	10.0	9.43	94	3	14	64-122	
1,2-Dibromo-3-Chloropropane	10.0	12.0	120	2	24	42-130	
1,2-Dichlorobenzene	10.0	9.83	98	2	15	67-118	
1,2-Dichloroethane	10.0	10.5	105	4	24	74-125	
1,2-Dichloropropane	10.0	10.4	104	3	15	73-122	
1,3-Dichlorobenzene	10.0	9.64	96	2	15	65-120	
1,3-Dichloropropane	10.0	10.9	109	0	35	59-133	
1,4-Dichlorobenzene	10.0	9.87	99	3	16	66-120	
2,2-Dichloropropane	10.0	6.72	67	0	30	48-126	
2-Chloroethyl vinyl ether	10.0	10 U	0	NC	30	10-150	F1
2-Chlorotoluene	10.0	9.49	95	5	18	70-122	
2-Hexanone	20.0	27.5	137	5	27	49-142	
Bromobenzene	10.0	9.90	99	1	13	73-120	
Bromochloromethane	10.0	10.3	103	1	35	60-132	
4-Chlorotoluene	10.0	9.72	97	2	15	74-120	
p-Isopropyltoluene	10.0	9.36	94	1	27	61-123	
Acetone	20.0	24.5	123	0	28	32-126	
Benzene	10.0	10.2	102	2	13	73-121	
Bromoform	10.0	9.99	100	1	19	45-121	
Bromomethane	10.0	5.42	54	13	35	26-136	
Carbon disulfide	10.0	9.46	95	3	34	54-144	
Carbon tetrachloride	10.0	9.40	94	5	20	65-129	
Chlorobenzene	10.0	10.1	101	2	15	72-120	
Chloroethane	10.0	7.74	77	2	35	27-131	
Chloroform	10.0	10.2	102	4	17	73-121	
Chloromethane	10.0	8.70	87	1	20	39-134	
cis-1,2-Dichloroethene	10.0	10.3	103	3	22	66-124	
cis-1,3-Dichloropropene	10.0	9.21	92	0	21	60-120	
Hexachlorobutadiene	10.0	7.53	75	13	34	48-120	
Dibromomethane	10.0	11.0	110	2	35	63-134	
Bromodichloromethane	10.0	9.86	99	2	19	72-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXR0233.D
 Lab ID: 240-61849-33 MSD Client ID: MSA-SW45A-030716 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Dichlorodifluoromethane	10.0	4.97	50	1	34	14-137	
Ethylbenzene	10.0	9.91	99	1	16	68-121	
1,2-Dibromoethane	10.0	11.5	115	2	24	69-125	
Naphthalene	10.0	10.4	104	1	35	38-128	
m-Xylene & p-Xylene	10.0	10.0	100	3	15	66-123	
n-Butylbenzene	10.0	8.73	87	1	33	54-126	
Isopropylbenzene	10.0	9.86	99	2	20	61-122	
n-Propylbenzene	10.0	9.51	95	2	29	63-129	
2-Butanone	20.0	26.3	132	6	19	49-132	
4-Methyl-2-pentanone	20.0	24.9	124	1	32	58-136	
sec-Butylbenzene	10.0	9.01	90	0	29	61-123	
Methyl tert-butyl ether	10.0	9.96	100	1	12	61-121	
Methylene Chloride	10.0	10.0	100	2	14	70-124	
o-Xylene	10.0	9.95	100	2	14	68-121	
Styrene	10.0	10.3	103	2	15	64-126	
tert-Butylbenzene	10.0	9.06	91	2	24	63-122	
Tetrachloroethene	10.0	9.96	100	3	20	59-125	
Toluene	10.0	10.3	103	3	15	72-122	
trans-1,2-Dichloroethene	10.0	10.6	106	2	25	72-125	
trans-1,3-Dichloropropene	10.0	8.35	84	0	22	58-132	
Trichloroethene	10.0	10.5	105	2	14	61-129	
Trichlorofluoromethane	10.0	9.50	95	1	25	49-133	
Vinyl acetate	10.0	7.97	80	2	15	26-189	
Vinyl chloride	10.0	8.69	87	1	35	44-122	
tert-Butyl alcohol	100	119	119	6	30	70-130	
Xylenes, Total	20.0	20.0	100	2	14	67-122	
Dibromochloromethane	10.0	10.3	103	2	19	62-122	

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.: 240-61849-1
SDG No.: _____
Lab File ID: BFB4721.D BFB Injection Date: 03/10/2016
Instrument ID: A3UX16 BFB Injection Time: 08:27
Analysis Batch No.: 220928

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.5
75	30.0 - 60.0 % of mass 95	49.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	87.4
175	5.0 - 9.0 % of mass 174	6.3 (7.2) 1
176	95.0 - 101.0 % of mass 174	84.9 (97.2) 1
177	5.0 - 9.0 % of mass 176	4.8 (5.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-220928/2	UXM3440.D	03/10/2016	09:37
	STD8260 240-220928/3	UXM3441.D	03/10/2016	10:00
	STD8260 240-220928/4	UXM3442.D	03/10/2016	10:23
	STD8260 240-220928/5	UXM3443.D	03/10/2016	10:46
	STD8260 240-220928/6	UXM3444.D	03/10/2016	11:08
	STD8260 240-220928/7	UXM3445.D	03/10/2016	11:31
	STD8260 240-220928/8	UXM3446.D	03/10/2016	11:54
	ICV 240-220928/10	UXM3448.D	03/10/2016	13:31
	STDA9 240-220928/11	UXM3449.D	03/10/2016	13:54
	STDA9 240-220928/12	UXM3450.D	03/10/2016	14:17
	STDA9 240-220928/13	UXM3451.D	03/10/2016	14:39
	STDA9 240-220928/14	UXM3452.D	03/10/2016	15:02
	STDA9 240-220928/15	UXM3453.D	03/10/2016	15:25
	STDA9 240-220928/16	UXM3454.D	03/10/2016	15:48
	ICV 240-220928/17	UXM3455.D	03/10/2016	16:10

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1 Analy Batch No.: 220928

SDG No.: _____

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/10/2016 09:37 Calibration End Date: 03/10/2016 11:54 Calibration ID: 33391

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-220928/8	UXM3446.D
Level 2	STD8260 240-220928/7	UXM3445.D
Level 3	STD8260 240-220928/6	UXM3444.D
Level 4	STD8260 240-220928/5	UXM3443.D
Level 5	STD8260 240-220928/4	UXM3442.D
Level 6	STD8260 240-220928/3	UXM3441.D
Level 7	STD8260 240-220928/2	UXM3440.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2002 0.2448	0.2284 0.2479	0.2181	0.2293	0.2274	Ave		0.2280			0.1000	7.0		20.0			
Chloromethane	0.2424 0.2479	0.2544 0.2440	0.2628	0.2587	0.2631	Ave		0.2533			0.1000	3.4		20.0			
Vinyl chloride	0.2389 0.2705	0.2597 0.2671	0.2661	0.2794	0.2738	Ave		0.2651			0.1000	4.9		20.0			
Butadiene	0.2294 0.2421	0.2451 0.2456	0.2418	0.2407	0.2410	Ave		0.2408				2.2		20.0			
Bromomethane	0.1455 0.1395	0.1518 0.1387	0.1468	0.1649	0.1645	Ave		0.1502			0.0500	7.2		20.0			
Chloroethane	0.1481 0.1546	0.1560 0.1563	0.1523	0.1602	0.1690	Ave		0.1567				4.2		20.0			
Dichlorofluoromethane	0.3713 0.3687	0.3554 0.3648	0.3660	0.3877	0.3942	Ave		0.3726				3.7		20.0			
Trichlorofluoromethane	0.2637 0.3069	0.2675 0.3116	0.2862	0.2995	0.3011	Ave		0.2909			0.1000	6.5		20.0			
Ethyl ether	0.1463 0.1549	0.1349 0.1563	0.1506	0.1588	0.1598	Ave		0.1517				5.8		20.0			
Acrolein	0.0100 0.0117	0.0105 0.0121	0.0096	0.0115	0.0117	Ave		0.0110				9.0		20.0			
1,1-Dichloroethene	0.2203 0.2179	0.2018 0.2275	0.2210	0.2284	0.2328	Ave		0.2214			0.1000	4.6		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1522 0.1777	0.1822 0.1859	0.1603	0.1702	0.1846	Ave		0.1733			0.0500	7.5		20.0			
Acetone	0.1113 0.0467	0.0738 0.0469	0.0616	0.0520	0.0502	Lin1	0.0624	0.0459		*	0.0500				1.0000		0.9900
Iodomethane	0.3465 0.3915	0.3855 0.3999	0.3790	0.4021	0.4075	Ave		0.3874				5.3		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.: 240-61849-1 Analy Batch No.: 220928
SDG No.: _____
Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/10/2016 09:37 Calibration End Date: 03/10/2016 11:54 Calibration ID: 33391

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	0.7399 0.7157	0.7018 0.7474	0.7043	0.7301	0.7457	Ave		0.7264			0.1000	2.6		20.0			
3-Chloro-1-propene	0.1280 0.1430	0.1275 0.1468	0.1412	0.1512	0.1536	Ave		0.1416				7.3		20.0			
Methyl acetate	0.0848 0.0886	0.0823 0.0903	0.0867	0.0878	0.0916	Lin	-0.035	0.0903		*	0.1000				1.0000		0.9900
Methylene Chloride	0.3929 0.2421	0.3223 0.2496	0.2806	0.2642	0.2657	Lin1	0.0751	0.2466			0.1000				0.9990		0.9900
tert-Butyl alcohol	0.0106 0.0101	0.0097 0.0101	0.0102	0.0101	0.0104	Ave		0.0102				2.7		20.0			
Acrylonitrile	0.0395 0.0468	0.0405 0.0478	0.0432	0.0462	0.0486	Ave		0.0447				8.1		20.0			
Methyl tert-butyl ether	0.4992 0.5558	0.4865 0.5698	0.5341	0.5527	0.5744	Ave		0.5389			0.1000	6.4		20.0			
trans-1,2-Dichloroethene	0.2381 0.2563	0.2415 0.2615	0.2444	0.2588	0.2637	Ave		0.2520			0.1000	4.1		20.0			
Hexane	0.0479 0.0568	0.0577 0.0620	0.0489	0.0552	0.0597	Ave		0.0555				9.6		20.0			
1,1-Dichloroethane	0.3858 0.4124	0.3786 0.4284	0.3914	0.4160	0.4340	Ave		0.4067			0.1000	5.3		20.0			
Vinyl acetate	0.2399 0.2600	0.2120 0.2702	0.2298	0.2476	0.2685	Ave		0.2468				8.7		20.0			
2-Butanone	0.0752 0.0535	0.0544 0.0531	0.0566	0.0580	0.0571	Ave		0.0583			0.0500	13.2		20.0			
cis-1,2-Dichloroethene	0.2600 0.2733	0.2429 0.2810	0.2699	0.2785	0.2871	Ave		0.2704			0.1000	5.5		20.0			
2,2-Dichloropropane	0.3153 0.3463	0.3023 0.3428	0.3303	0.3391	0.3586	Ave		0.3335				5.8		20.0			
Bromochloromethane	0.1121 0.1174	0.1133 0.1207	0.1197	0.1216	0.1235	Ave		0.1183				3.6		20.0			
Tetrahydrofuran	0.0409 0.0329	0.0330 0.0340	0.0295	0.0336	0.0335	Ave		0.0339				10.1		20.0			
Chloroform	0.3933 0.4103	0.3873 0.4245	0.3975	0.4225	0.4308	Ave		0.4094				4.2		20.0			
1,1,1-Trichloroethane	0.3365 0.3641	0.3155 0.3783	0.3529	0.3677	0.3805	Ave		0.3565			0.1000	6.6		20.0			
Cyclohexane	0.3292 0.3683	0.3374 0.3888	0.3369	0.3651	0.3691	Ave		0.3564			0.1000	6.2		20.0			
1,1-Dichloropropene	0.2655 0.3170	0.3154 0.3293	0.3106	0.3237	0.3282	Ave		0.3128				7.0		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.: 240-61849-1 Analy Batch No.: 220928
SDG No.: _____
Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/10/2016 09:37 Calibration End Date: 03/10/2016 11:54 Calibration ID: 33391

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	0.2711 0.3070	0.2790 0.3264	0.2888	0.3110	0.3166	Ave		0.3000			0.1000	6.9		20.0			
Isobutyl alcohol	0.0031 0.0033	0.0030 0.0033	0.0033	0.0029	0.0031	Ave		0.0031				4.6		20.0			
1,2-Dichloroethane	0.2495 0.2708	0.2386 0.2763	0.2706	0.2745	0.2827	Ave		0.2662			0.1000	6.0		20.0			
Benzene	0.9115 0.9567	0.8765 1.0086	0.9458	0.9739	1.0036	Ave		0.9538			0.5000	5.0		20.0			
n-Heptane	0.7058 0.1305	0.4106 0.1255	0.2617	0.1662	0.1428	Lin1	0.2912	0.1164							0.9990		0.9900
Trichloroethene	0.2547 0.2623	0.2470 0.2670	0.2506	0.2706	0.2745	Ave		0.2610			0.2000	4.0		20.0			
Methylcyclohexane	0.3246 0.3763	0.3478 0.4020	0.3423	0.3691	0.3911	Ave		0.3647			0.1000	7.6		20.0			
1,2-Dichloropropane	0.1780 0.2056	0.1954 0.2119	0.1990	0.2112	0.2052	Ave		0.2009			0.1000	5.8		20.0			
Dibromomethane	0.1130 0.1093	0.0950 0.1104	0.1068	0.1053	0.1181	Ave		0.1083				6.6		20.0			
1,4-Dioxane	0.0010 0.0012	0.0009 0.0012	0.0011	0.0012	0.0012	Ave		0.0011				11.7		20.0			
Bromodichloromethane	0.2455 0.2868	0.2439 0.2949	0.2713	0.2755	0.2956	Ave		0.2734			0.1000	7.9		20.0			
2-Chloroethyl vinyl ether	0.0780 0.0897	0.0763 0.0906	0.0850	0.0851	0.0912	Ave		0.0851				7.1		20.0			
cis-1,3-Dichloropropene	0.2864 0.3426	0.2866 0.3494	0.3169	0.3398	0.3447	Ave		0.3238			0.1500	8.5		20.0			
4-Methyl-2-pentanone	0.1057 0.1144	0.1042 0.1152	0.1173	0.1198	0.1166	Ave		0.1133			0.0500	5.3		20.0			
Toluene	1.3152 1.3956	1.2737 1.4860	1.3126	1.3916	1.4394	Ave		1.3734			0.4000	5.6		20.0			
trans-1,3-Dichloropropene	0.3380 0.3718	0.3023 0.3923	0.3595	0.3701	0.3781	Ave		0.3589			0.1000	8.4		20.0			
Ethyl methacrylate	0.2435 0.2710	0.2385 0.2776	0.2614	0.2629	0.2707	Ave		0.2608				5.6		20.0			
1,1,2-Trichloroethane	0.2408 0.2132	0.1908 0.2162	0.2057	0.2185	0.2157	Ave		0.2144			0.1000	7.0		20.0			
1,3-Dichloropropane	0.3779 0.3754	0.3204 0.3813	0.3695	0.3758	0.3817	Ave		0.3689				5.9		20.0			
Tetrachloroethene	0.2656 0.2783	0.2543 0.2924	0.2745	0.2851	0.2824	Ave		0.2761			0.2000	4.6		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.: 240-61849-1 Analy Batch No.: 220928
SDG No.: _____
Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/10/2016 09:37 Calibration End Date: 03/10/2016 11:54 Calibration ID: 33391

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.1191 0.1135	0.1003 0.1106	0.1090	0.1136	0.1169	Ave		0.1119			0.0500	5.5		20.0			
Dibromochloromethane	0.2033 0.2521	0.2118 0.2643	0.2374	0.2464	0.2597	Ave		0.2393				9.8		20.0			
1,2-Dibromoethane	0.1962 0.2104	0.1860 0.2181	0.2113	0.2081	0.2179	Ave		0.2069				5.7		20.0			
Chlorobenzene	0.8807 0.9207	0.8802 0.9517	0.8943	0.9362	0.9502	Ave		0.9163			0.3000	3.4		20.0			
1,1,1,2-Tetrachloroethane	0.2901 0.3166	0.2839 0.3407	0.3039	0.3122	0.3310	Ave		0.3112				6.6		20.0			
Ethylbenzene	0.4640 0.5066	0.4534 0.5465	0.5005	0.5107	0.5357	Ave		0.5025				6.8		20.0			
m-Xylene & p-Xylene	0.6043 0.6393	0.5318 0.6729	0.6101	0.6468	0.6517	Ave		0.6224				7.5		20.0			
o-Xylene	0.5501 0.6494	0.5591 0.6838	0.6111	0.6576	0.6667	Ave		0.6254				8.5		20.0			
Styrene	0.8864 1.0780	0.8508 1.1578	1.0014	1.0501	1.0907	Ave		1.0165			0.3000	11.0		20.0			
Bromoform	0.1245 0.1401	0.1123 0.1556	0.1294	0.1377	0.1471	Ave		0.1352			0.1000	10.7		20.0			
Isopropylbenzene	1.5001 1.6485	1.4127 1.7649	1.5070	1.6580	1.6817	Ave		1.5961			0.1000	7.8		20.0			
1,1,2,2-Tetrachloroethane	0.4535 0.4536	0.4441 0.4556	0.4656	0.4606	0.4550	Ave		0.4554			0.3000	1.5		20.0			
Bromobenzene	0.7216 0.7329	0.6610 0.7587	0.8004	0.7779	0.7626	Ave		0.7450				6.1		20.0			
1,2,3-Trichloropropane	0.1539 0.1477	0.1516 0.1501	0.1542	0.1561	0.1493	Ave		0.1518				2.0		20.0			
trans-1,4-Dichloro-2-butene	0.1004 0.1238	0.0967 0.1352	0.1102	0.1296	0.1224	Ave		0.1169				12.6		20.0			
n-Propylbenzene	0.7889 0.8379	0.7678 0.8713	0.8213	0.8454	0.8486	Ave		0.8259				4.4		20.0			
2-Chlorotoluene	0.6980 0.7188	0.6850 0.7379	0.7371	0.7491	0.7363	Ave		0.7232				3.3		20.0			
1,3,5-Trimethylbenzene	2.1679 2.5140	2.2184 2.6483	2.4995	2.5710	2.5466	Ave		2.4522				7.5		20.0			
4-Chlorotoluene	0.6439 0.7527	0.7105 0.7838	0.7570	0.7771	0.7828	Ave		0.7440				6.8		20.0			
tert-Butylbenzene	2.0960 2.1510	2.0599 2.2406	2.2016	2.2288	2.2142	Ave		2.1703				3.2		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.: 240-61849-1 Analy Batch No.: 220928
SDG No.: _____
Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/10/2016 09:37 Calibration End Date: 03/10/2016 11:54 Calibration ID: 33391

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.3587 2.6051	2.2413 2.7492	2.5123	2.6511	2.6281	Ave		2.5351				7.0		20.0			
sec-Butylbenzene	2.7608 2.9640	2.7866 3.1138	2.8350	3.0368	2.9984	Ave		2.9279				4.6		20.0			
1,3-Dichlorobenzene	1.3501 1.4155	1.2802 1.4859	1.4410	1.4538	1.4440	Ave		1.4101			0.6000	5.0		20.0			
p-Isopropyltoluene	2.3630 2.6067	2.2356 2.7610	2.5293	2.6252	2.6397	Ave		2.5372				7.1		20.0			
1,4-Dichlorobenzene	1.4124 1.4362	1.3666 1.4897	1.4626	1.4487	1.4795	Ave		1.4422			0.5000	2.9		20.0			
n-Butylbenzene	1.9098 2.0814	1.8507 2.1937	2.0086	2.0736	2.0867	Ave		2.0292				5.7		20.0			
1,2-Dichlorobenzene	1.3196 1.2822	1.2501 1.3404	1.2874	1.3398	1.3368	Ave		1.3081			0.4000	2.7		20.0			
1,2-Dibromo-3-Chloropropane	0.0942 0.0768	0.0612 0.0800	0.0822	0.0703	0.0781	Ave		0.0775			0.0500	13.2		20.0			
1,2,4-Trichlorobenzene	0.6422 0.7292	0.5867 0.7306	0.6757	0.7343	0.7173	Ave		0.6880			0.2000	8.2		20.0			
Hexachlorobutadiene	0.3337 0.2997	0.2879 0.2834	0.3142	0.3101	0.3180	Ave		0.3067				5.8		20.0			
Naphthalene	0.9660 1.2910	1.0432 1.3043	1.1701	1.2695	1.3146	Ave		1.1941				11.7		20.0			
1,2,3-Trichlorobenzene	0.5305 0.5783	0.5258 0.5735	0.5707	0.5934	0.6167	Ave		0.5699				5.7		20.0			
Dibromofluoromethane (Surr)	0.2121 0.2184	0.2235 0.2231	0.2216	0.2220	0.2245	Ave		0.2207				1.9		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2349 0.2316	0.2195 0.2320	0.2218	0.2293	0.2373	Ave		0.2295				2.9		20.0			
Toluene-d8 (Surr)	1.2102 1.1923	1.1418 1.2442	1.1721	1.1970	1.2017	Ave		1.1942				2.7		20.0			
4-Bromofluorobenzene (Surr)	0.4379 0.4740	0.4124 0.4878	0.4598	0.4726	0.4825	Ave		0.4610				5.9		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.: 240-61849-1 Analy Batch No.: 220928

SDG No.: _____

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/10/2016 13:54 Calibration End Date: 03/10/2016 15:48 Calibration ID: 33394

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-220928/16	UXM3454.D
Level 2	STDA9 240-220928/15	UXM3453.D
Level 3	STDA9 240-220928/14	UXM3452.D
Level 4	STDA9 240-220928/13	UXM3451.D
Level 5	STDA9 240-220928/12	UXM3450.D
Level 6	STDA9 240-220928/11	UXM3449.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetonitrile	0.0126 0.0137	0.0125	0.0131	0.0131	0.0136	Ave		0.0131				3.9		20.0			
Diisopropyl ether	0.1850 0.2177	0.1992	0.2093	0.2209	0.2103	Ave		0.2070				6.4		20.0			
2-Chloro-1,3-butadiene	0.3578 0.3859	0.3672	0.3823	0.3919	0.3739	Ave		0.3765				3.4		20.0			
Ethyl-t-butyl ether (ETBE)	0.6162 0.6756	0.6165	0.6446	0.6686	0.6386	Ave		0.6433				3.9		20.0			
Propionitrile	0.0143 0.0164	0.0143	0.0156	0.0168	0.0159	Ave		0.0155				6.7		20.0			
Ethyl acetate	0.1026 0.1059	0.1009	0.1000	0.1047	0.0986	Ave		0.1021				2.8		20.0			
Methacrylonitrile	0.0722 0.0809	0.0750	0.0751	0.0806	0.0760	Ave		0.0766				4.5		20.0			
Tert-amyl-methyl ether (TAME)	0.5308 0.6016	0.5371	0.5712	0.5906	0.5757	Ave		0.5678				5.0		20.0			
n-Butanol	0.0022 0.0025	0.0021	0.0023	0.0025	0.0024	Ave		0.0023				7.8		20.0			
Ethyl acrylate	0.1470 0.1622	0.1580	0.1486	0.1563	0.1524	Ave		0.1541				3.8		20.0			
Methyl methacrylate	0.1071 0.1182	0.1062	0.1133	0.1149	0.1105	Ave		0.1117				4.1		20.0			
2-Nitropropane	0.0345 0.0344	0.0327	0.0295	0.0315	0.0310	Ave		0.0323				6.2		20.0			
n-Butyl acetate	0.1815 0.1987	0.1953	0.1937	0.2026	0.1935	Ave		0.1942				3.7		20.0			
1-Chlorohexane	0.3991 0.4415	0.4325	0.4165	0.4414	0.4221	Ave		0.4255				3.9		20.0			
Cyclohexanone	0.0086 0.0078	0.0073	0.0070	0.0080	0.0080	Ave		0.0078				7.4		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.: 240-61849-1 Analy Batch No.: 220928

SDG No.: _____

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/10/2016 13:54 Calibration End Date: 03/10/2016 15:48 Calibration ID: 33394

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trimethylbenzene	2.4087 2.8329	2.4576	2.6553	2.7746	2.6518	Ave		2.6302				6.4		20.0			
1,3,5-Trichlorobenzene	0.8744 0.9849	0.8725	0.9477	0.9874	0.9490	Ave		0.9360				5.5		20.0			
2-Methylnaphthalene	0.2037 0.5975	0.2520	0.3674	0.4813	0.5194	Lin1	-1.107	0.5765							0.9920		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.: 240-61849-1

SDG No.: _____

Lab Sample ID: ICV 240-220928/10 Calibration Date: 03/10/2016 13:31

Instrument ID: A3UX16 Calib Start Date: 03/10/2016 09:37

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:54

Lab File ID: UXM3448.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	0.2280	0.2019	0.1000	0.00885	0.0100	-11.5	20.0
Chloromethane	Ave	0.2533	0.2458	0.1000	0.00970	0.0100	-3.0	20.0
Vinyl chloride	Ave	0.2651	0.2681	0.1000	0.0101	0.0100	1.1	20.0
Butadiene	Ave	0.2408	0.2361		0.00980	0.0100	-2.0	20.0
Bromomethane	Ave	0.1502	0.1579	0.0500	0.0105	0.0100	5.1	20.0
Chloroethane	Ave	0.1567	0.1560	0.0500	0.00996	0.0100	-0.4	20.0
Dichlorofluoromethane	Ave	0.3726	0.3935		0.0106	0.0100	5.6	20.0
Trichlorofluoromethane	Ave	0.2909	0.3258	0.1000	0.0112	0.0100	12.0	20.0
Ethyl ether	Ave	0.1517	0.1581		0.0104	0.0100	4.3	20.0
Acrolein	Ave	0.0110	0.0200		0.0909	0.0500	81.7*	20.0
1,1-Dichloroethene	Ave	0.2214	0.2521	0.1000	0.0114	0.0100	13.8	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.1733	0.2065	0.0500	0.0119	0.0100	19.2	20.0
Acetone	Lin1		0.0390*	0.0500	0.0156	0.0200	-21.8*	20.0
Iodomethane	Ave	0.3874	0.4527		0.0117	0.0100	16.8	20.0
Carbon disulfide	Ave	0.7264	0.8223	0.1000	0.0113	0.0100	13.2	20.0
3-Chloro-1-propene	Ave	0.1416	0.1626		0.0115	0.0100	14.8	20.0
Methyl acetate	Lin		0.0940*	0.1000	0.0525	0.0500	4.9	20.0
Methylene Chloride	Lin1		0.2718	0.1000	0.0107	0.0100	7.2	20.0
tert-Butyl alcohol	Ave	0.0102	0.0106		0.104	0.100	4.3	20.0
Acrylonitrile	Ave	0.0447	0.0483		0.108	0.100	8.1	20.0
Methyl tert-butyl ether	Ave	0.5389	0.5898	0.1000	0.0109	0.0100	9.4	20.0
trans-1,2-Dichloroethene	Ave	0.2520	0.2841	0.1000	0.0113	0.0100	12.7	20.0
Hexane	Ave	0.0555	0.0707		0.0127	0.0100	27.4*	20.0
1,1-Dichloroethane	Ave	0.4067	0.4345	0.1000	0.0107	0.0100	6.9	20.0
Vinyl acetate	Ave	0.2468	0.2465		0.00999	0.0100	-0.1	20.0
2-Butanone	Ave	0.0583	0.0495*	0.0500	0.0170	0.0200	-15.1	20.0
2,2-Dichloropropane	Ave	0.3335	0.3715		0.0111	0.0100	11.4	20.0
cis-1,2-Dichloroethene	Ave	0.2704	0.3001	0.1000	0.0111	0.0100	11.0	20.0
Bromochloromethane	Ave	0.1183	0.1268		0.0107	0.0100	7.2	20.0
Tetrahydrofuran	Ave	0.0339	0.0337		0.0199	0.0200	-0.7	20.0
Chloroform	Ave	0.4094	0.4524	0.2000	0.0110	0.0100	10.5	20.0
1,1,1-Trichloroethane	Ave	0.3565	0.4032	0.1000	0.0113	0.0100	13.1	20.0
Cyclohexane	Ave	0.3564	0.4072	0.1000	0.0114	0.0100	14.3	20.0
1,1-Dichloropropene	Ave	0.3128	0.3595		0.0115	0.0100	14.9	20.0
Carbon tetrachloride	Ave	0.3000	0.3535	0.1000	0.0118	0.0100	17.8	20.0
Isobutyl alcohol	Ave	0.0031	0.0034		0.272	0.250	8.9	20.0
1,2-Dichloroethane	Ave	0.2662	0.2886	0.1000	0.0108	0.0100	8.4	20.0
Benzene	Ave	0.9538	1.042	0.5000	0.0109	0.0100	9.3	20.0
n-Heptane	Lin1		0.1602		0.0113	0.0100	12.6	20.0
Trichloroethene	Ave	0.2610	0.2909	0.2000	0.0111	0.0100	11.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Lab Sample ID: ICV 240-220928/10 Calibration Date: 03/10/2016 13:31

Instrument ID: A3UX16 Calib Start Date: 03/10/2016 09:37

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:54

Lab File ID: UXM3448.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.2009	0.2324	0.1000	0.0116	0.0100	15.7	20.0
Methylcyclohexane	Ave	0.3647	0.4252	0.1000	0.0117	0.0100	16.6	20.0
1,4-Dioxane	Ave	0.0011	0.0011		0.201	0.200	0.3	20.0
Dibromomethane	Ave	0.1083	0.1181		0.0109	0.0100	9.1	20.0
Bromodichloromethane	Ave	0.2734	0.3107	0.1000	0.0114	0.0100	13.7	20.0
2-Chloroethyl vinyl ether	Ave	0.0851	0.0967		0.0114	0.0100	13.7	20.0
cis-1,3-Dichloropropene	Ave	0.3238	0.3709	0.1500	0.0115	0.0100	14.6	20.0
4-Methyl-2-pentanone	Ave	0.1133	0.1204	0.0500	0.0213	0.0200	6.3	20.0
Toluene	Ave	1.373	1.491	0.4000	0.0109	0.0100	8.6	20.0
trans-1,3-Dichloropropene	Ave	0.3589	0.3866	0.1000	0.0108	0.0100	7.7	20.0
Ethyl methacrylate	Ave	0.2608	0.2936		0.0113	0.0100	12.6	20.0
1,1,2-Trichloroethane	Ave	0.2144	0.2188	0.1000	0.0102	0.0100	2.0	20.0
1,3-Dichloropropane	Ave	0.3689	0.3909		0.0106	0.0100	6.0	20.0
Tetrachloroethene	Ave	0.2761	0.3132	0.2000	0.0113	0.0100	13.4	20.0
2-Hexanone	Ave	0.1119	0.1057	0.0500	0.0189	0.0200	-5.5	20.0
Dibromochloromethane	Ave	0.2393	0.2576		0.0108	0.0100	7.7	20.0
1,2-Dibromoethane	Ave	0.2069	0.2290		0.0111	0.0100	10.7	20.0
Chlorobenzene	Ave	0.9163	0.9778	0.3000	0.0107	0.0100	6.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3112	0.3346		0.0108	0.0100	7.5	20.0
Ethylbenzene	Ave	0.5025	0.5466		0.0109	0.0100	8.8	20.0
m-Xylene & p-Xylene	Ave	0.6224	0.6907		0.0111	0.0100	11.0	20.0
o-Xylene	Ave	0.6254	0.6784		0.0108	0.0100	8.5	20.0
Styrene	Ave	1.016	1.122	0.3000	0.0110	0.0100	10.4	20.0
Bromoform	Ave	0.1352	0.1593	0.1000	0.0118	0.0100	17.8	20.0
Isopropylbenzene	Ave	1.596	1.773	0.1000	0.0111	0.0100	11.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.4554	0.4700	0.3000	0.0103	0.0100	3.2	20.0
Bromobenzene	Ave	0.7450	0.8102		0.0109	0.0100	8.8	20.0
1,2,3-Trichloropropane	Ave	0.1518	0.1610		0.0106	0.0100	6.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1169	0.1258		0.0108	0.0100	7.6	20.0
n-Propylbenzene	Ave	0.8259	0.9102		0.0110	0.0100	10.2	20.0
2-Chlorotoluene	Ave	0.7232	0.7833		0.0108	0.0100	8.3	20.0
1,3,5-Trimethylbenzene	Ave	2.452	2.661		0.0109	0.0100	8.5	20.0
4-Chlorotoluene	Ave	0.7440	0.8210		0.0110	0.0100	10.4	20.0
tert-Butylbenzene	Ave	2.170	2.347		0.0108	0.0100	8.2	20.0
1,2,4-Trimethylbenzene	Ave	2.535	2.731		0.0108	0.0100	7.7	20.0
sec-Butylbenzene	Ave	2.928	3.185		0.0109	0.0100	8.8	20.0
1,3-Dichlorobenzene	Ave	1.410	1.523	0.6000	0.0108	0.0100	8.0	20.0
p-Isopropyltoluene	Ave	2.537	2.806		0.0111	0.0100	10.6	20.0
1,4-Dichlorobenzene	Ave	1.442	1.528	0.5000	0.0106	0.0100	6.0	20.0
n-Butylbenzene	Ave	2.029	2.216		0.0109	0.0100	9.2	20.0
1,2-Dichlorobenzene	Ave	1.308	1.374	0.4000	0.0105	0.0100	5.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: ICV 240-220928/10 Calibration Date: 03/10/2016 13:31
 Instrument ID: A3UX16 Calib Start Date: 03/10/2016 09:37
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:54
 Lab File ID: UXM3448.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0775	0.0802	0.0500	0.0103	0.0100	3.4	20.0
1,2,4-Trichlorobenzene	Ave	0.6880	0.7622	0.2000	0.0111	0.0100	10.8	20.0
Hexachlorobutadiene	Ave	0.3067	0.3298		0.0108	0.0100	7.5	20.0
Naphthalene	Ave	1.194	1.311		0.0110	0.0100	9.8	20.0
1,2,3-Trichlorobenzene	Ave	0.5699	0.6103		0.0107	0.0100	7.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2207	0.2206		0.0100	0.0100	-0.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2295	0.2302		0.0100	0.0100	0.3	20.0
Toluene-d8 (Surr)	Ave	1.194	1.184		0.00992	0.0100	-0.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4610	0.4606		0.00999	0.0100	-0.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: ICV 240-220928/17 Calibration Date: 03/10/2016 16:10
 Instrument ID: A3UX16 Calib Start Date: 03/10/2016 13:54
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 15:48
 Lab File ID: UXM3455.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0131	0.0141		0.107	0.100	7.2	20.0
Diisopropyl ether	Ave	0.2070	0.2166		0.0105	0.0100	4.6	20.0
2-Chloro-1,3-butadiene	Ave	0.3765	0.3835		0.0102	0.0100	1.8	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.6433	0.6638		0.0103	0.0100	3.2	20.0
Propionitrile	Ave	0.0155	0.0163		0.105	0.100	4.8	20.0
Ethyl acetate	Ave	0.1021	0.1067		0.0209	0.0200	4.5	20.0
Methacrylonitrile	Ave	0.0766	0.0790		0.103	0.100	3.1	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.5678	0.5860		0.0103	0.0100	3.2	20.0
n-Butanol	Ave	0.0023	0.0022		0.233	0.250	-6.7	20.0
Methyl methacrylate	Ave	0.1117	0.1119		0.0200	0.0200	0.2	20.0
2-Nitropropane	Ave	0.0323	0.0303		0.0188	0.0200	-6.1	20.0
1-Chlorohexane	Ave	0.4255	0.4351		0.0102	0.0100	2.3	20.0
Cyclohexanone	Ave	0.0078	0.0070		0.0905	0.100	-9.5	20.0
1,2,3-Trimethylbenzene	Ave	2.630	2.700		0.0103	0.0100	2.7	20.0
1,3,5-Trichlorobenzene	Ave	0.9360	0.9557		0.0102	0.0100	2.1	20.0
2-Methylnaphthalene	Lin1		0.3839		0.0152	0.0200	-23.8*	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab File ID: BFB4725.D BFB Injection Date: 03/11/2016
 Instrument ID: A3UX16 BFB Injection Time: 08:25
 Analysis Batch No.: 221113

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.8
75	30.0 - 60.0 % of mass 95	47.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.1
173	Less than 2.0 % of mass 174	0.5 (0.6) 1
174	50.0 - 120.00 % of mass 95	87.4
175	5.0 - 9.0 % of mass 174	6.7 (7.7) 1
176	95.0 - 101.0 % of mass 174	85.2 (97.5) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-221113/2	UXM3456.D	03/11/2016	09:10
	CCV 240-221113/3	UXM3457.D	03/11/2016	09:32
	LCS 240-221113/4	UXM3458.D	03/11/2016	09:55
	MB 240-221113/6	UXM3460.D	03/11/2016	10:41
MSA-SW42A-030716	240-61849-21	UXM3462.D	03/11/2016	11:26
MSA-SW42B-030716	240-61849-22	UXM3469.D	03/11/2016	15:30
MSA-SW42C-030716	240-61849-23	UXM3470.D	03/11/2016	15:53
MSA-SW42D-030716	240-61849-24	UXM3471.D	03/11/2016	16:16
MSA-SW43A-030716	240-61849-25	UXM3472.D	03/11/2016	16:39

acetone and 2-butanone not used.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Lab Sample ID: CCVIS 240-221113/2 Calibration Date: 03/11/2016 09:10
Instrument ID: A3UX16 Calib Start Date: 03/10/2016 09:37
GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:54
Lab File ID: UXM3456.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	0.2280	0.2379	0.1000	0.0104	0.0100	4.3	20.0
Chloromethane	Ave	0.2533	0.2512	0.1000	0.00992	0.0100	-0.8	20.0
Vinyl chloride	Ave	0.2651	0.2731	0.1000	0.0103	0.0100	3.0	20.0
Butadiene	Ave	0.2408	0.2456		0.0102	0.0100	2.0	20.0
Bromomethane	Ave	0.1502	0.1570	0.0500	0.0104	0.0100	4.5	20.0
Chloroethane	Ave	0.1567	0.1619	0.0500	0.0103	0.0100	3.4	20.0
Dichlorofluoromethane	Ave	0.3726	0.3965		0.0106	0.0100	6.4	20.0
Trichlorofluoromethane	Ave	0.2909	0.3160	0.1000	0.0109	0.0100	8.6	20.0
Ethyl ether	Ave	0.1517	0.1393		0.00919	0.0100	-8.1	20.0
Acrolein	Ave	0.0110	0.0110		0.0499	0.0500	-0.2	20.0
1,1-Dichloroethene	Ave	0.2214	0.2409	0.1000	0.0109	0.0100	8.8	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.1733	0.2004	0.0500	0.0116	0.0100	15.6	20.0
Acetone	Lin1		0.0417*	0.0500	0.0168	0.0200	-15.9	20.0
Iodomethane	Ave	0.3874	0.4186		0.0108	0.0100	8.0	20.0
Carbon disulfide	Ave	0.7264	0.7565	0.1000	0.0104	0.0100	4.1	20.0
3-Chloro-1-propene	Ave	0.1416	0.1522		0.0107	0.0100	7.5	20.0
Methyl acetate	Lin		0.0798*	0.1000	0.0446	0.0500	-10.8	20.0
Methylene Chloride	Lin1		0.2640	0.1000	0.0104	0.0100	4.0	20.0
tert-Butyl alcohol	Ave	0.0102	0.0085		0.0834	0.100	-16.6	20.0
Acrylonitrile	Ave	0.0447	0.0434		0.0972	0.100	-2.8	20.0
Methyl tert-butyl ether	Ave	0.5389	0.5407	0.1000	0.0100	0.0100	0.3	20.0
trans-1,2-Dichloroethene	Ave	0.2520	0.2671	0.1000	0.0106	0.0100	6.0	20.0
Hexane	Ave	0.0555	0.0599		0.0108	0.0100	8.0	20.0
1,1-Dichloroethane	Ave	0.4067	0.4212	0.1000	0.0104	0.0100	3.6	20.0
Vinyl acetate	Ave	0.2468	0.2346		0.00950	0.0100	-5.0	20.0
2,2-Dichloropropane	Ave	0.3335	0.3777		0.0113	0.0100	13.2	20.0
2-Butanone	Ave	0.0583	0.0467*	0.0500	0.0160	0.0200	-19.9	20.0
cis-1,2-Dichloroethene	Ave	0.2704	0.2818	0.1000	0.0104	0.0100	4.2	20.0
Bromochloromethane	Ave	0.1183	0.1183		0.0100	0.0100	-0.0	20.0
Tetrahydrofuran	Ave	0.0339	0.0286		0.0169	0.0200	-15.6	20.0
Chloroform	Ave	0.4094	0.4280	0.2000	0.0105	0.0100	4.5	20.0
1,1,1-Trichloroethane	Ave	0.3565	0.3896	0.1000	0.0109	0.0100	9.3	20.0
Cyclohexane	Ave	0.3564	0.3930	0.1000	0.0110	0.0100	10.3	20.0
1,1-Dichloropropene	Ave	0.3128	0.3259		0.0104	0.0100	4.2	20.0
Carbon tetrachloride	Ave	0.3000	0.3349	0.1000	0.0112	0.0100	11.6	20.0
Isobutyl alcohol	Ave	0.0031	0.0026		0.204	0.250	-18.4	20.0
1,2-Dichloroethane	Ave	0.2662	0.2655	0.1000	0.00997	0.0100	-0.3	20.0
Benzene	Ave	0.9538	0.9797	0.5000	0.0103	0.0100	2.7	20.0
n-Heptane	Lin1		0.1445		0.00991	0.0100	-0.9	20.0
Trichloroethene	Ave	0.2610	0.2700	0.2000	0.0103	0.0100	3.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Lab Sample ID: CCVIS 240-221113/2 Calibration Date: 03/11/2016 09:10

Instrument ID: A3UX16 Calib Start Date: 03/10/2016 09:37

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:54

Lab File ID: UXM3456.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.2009	0.2061	0.1000	0.0103	0.0100	2.6	20.0
Methylcyclohexane	Ave	0.3647	0.4096	0.1000	0.0112	0.0100	12.3	20.0
1,4-Dioxane	Ave	0.0011	0.0009		0.158	0.200	-21.1*	20.0
Dibromomethane	Ave	0.1083	0.1060		0.00979	0.0100	-2.1	20.0
Bromodichloromethane	Ave	0.2734	0.2921	0.1000	0.0107	0.0100	6.8	20.0
2-Chloroethyl vinyl ether	Ave	0.0851	0.0870		0.0204	0.0200	2.2	20.0
cis-1,3-Dichloropropene	Ave	0.3238	0.3365	0.1500	0.0104	0.0100	3.9	20.0
4-Methyl-2-pentanone	Ave	0.1133	0.1064	0.0500	0.0188	0.0200	-6.1	20.0
Toluene	Ave	1.373	1.401	0.4000	0.0102	0.0100	2.0	20.0
trans-1,3-Dichloropropene	Ave	0.3589	0.3543	0.1000	0.00987	0.0100	-1.3	20.0
Ethyl methacrylate	Ave	0.2608	0.2462		0.00944	0.0100	-5.6	20.0
1,1,2-Trichloroethane	Ave	0.2144	0.2027	0.1000	0.00945	0.0100	-5.5	20.0
1,3-Dichloropropane	Ave	0.3689	0.3614		0.00980	0.0100	-2.0	20.0
Tetrachloroethene	Ave	0.2761	0.2902	0.2000	0.0105	0.0100	5.1	20.0
2-Hexanone	Ave	0.1119	0.0929	0.0500	0.0166	0.0200	-17.0	20.0
Dibromochloromethane	Ave	0.2393	0.2479		0.0104	0.0100	3.6	20.0
1,2-Dibromoethane	Ave	0.2069	0.2073		0.0100	0.0100	0.2	20.0
Chlorobenzene	Ave	0.9163	0.9450	0.3000	0.0103	0.0100	3.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3112	0.3254		0.0105	0.0100	4.5	20.0
Ethylbenzene	Ave	0.5025	0.5245		0.0104	0.0100	4.4	20.0
m-Xylene & p-Xylene	Ave	0.6224	0.6573		0.0106	0.0100	5.6	20.0
o-Xylene	Ave	0.6254	0.6634		0.0106	0.0100	6.1	20.0
Styrene	Ave	1.016	1.089	0.3000	0.0107	0.0100	7.1	20.0
Bromoform	Ave	0.1352	0.1403	0.1000	0.0104	0.0100	3.7	20.0
Isopropylbenzene	Ave	1.596	1.683	0.1000	0.0105	0.0100	5.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.4554	0.4386	0.3000	0.00963	0.0100	-3.7	20.0
Bromobenzene	Ave	0.7450	0.7584		0.0102	0.0100	1.8	20.0
1,2,3-Trichloropropane	Ave	0.1518	0.1386		0.00913	0.0100	-8.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1169	0.1139		0.00975	0.0100	-2.5	20.0
n-Propylbenzene	Ave	0.8259	0.8630		0.0104	0.0100	4.5	20.0
2-Chlorotoluene	Ave	0.7232	0.7558		0.0105	0.0100	4.5	20.0
1,3,5-Trimethylbenzene	Ave	2.452	2.598		0.0106	0.0100	5.9	20.0
4-Chlorotoluene	Ave	0.7440	0.7975		0.0107	0.0100	7.2	20.0
tert-Butylbenzene	Ave	2.170	2.254		0.0104	0.0100	3.8	20.0
1,2,4-Trimethylbenzene	Ave	2.535	2.670		0.0105	0.0100	5.3	20.0
sec-Butylbenzene	Ave	2.928	3.051		0.0104	0.0100	4.2	20.0
1,3-Dichlorobenzene	Ave	1.410	1.470	0.6000	0.0104	0.0100	4.2	20.0
p-Isopropyltoluene	Ave	2.537	2.703		0.0107	0.0100	6.5	20.0
1,4-Dichlorobenzene	Ave	1.442	1.468	0.5000	0.0102	0.0100	1.8	20.0
n-Butylbenzene	Ave	2.029	2.148		0.0106	0.0100	5.8	20.0
1,2-Dichlorobenzene	Ave	1.308	1.314	0.4000	0.0100	0.0100	0.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-221113/2 Calibration Date: 03/11/2016 09:10
 Instrument ID: A3UX16 Calib Start Date: 03/10/2016 09:37
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:54
 Lab File ID: UXM3456.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0775	0.0724	0.0500	0.00934	0.0100	-6.6	20.0
1,2,4-Trichlorobenzene	Ave	0.6880	0.7154	0.2000	0.0104	0.0100	4.0	20.0
Hexachlorobutadiene	Ave	0.3067	0.2977		0.00971	0.0100	-2.9	20.0
Naphthalene	Ave	1.194	1.134		0.00950	0.0100	-5.0	20.0
1,2,3-Trichlorobenzene	Ave	0.5699	0.5616		0.00986	0.0100	-1.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2207	0.2053		0.0106	0.0114	-7.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2295	0.2081		0.0103	0.0114	-9.3	20.0
Toluene-d8 (Surr)	Ave	1.194	1.128		0.0108	0.0114	-5.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4610	0.4401		0.0109	0.0114	-4.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: CCV 240-221113/3 Calibration Date: 03/11/2016 09:32
 Instrument ID: A3UX16 Calib Start Date: 03/10/2016 13:54
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 15:48
 Lab File ID: UXM3457.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0131	0.0123		0.0941	0.100	-5.9	20.0
Diisopropyl ether	Ave	0.2070	0.2031		0.00981	0.0100	-1.9	20.0
2-Chloro-1,3-butadiene	Ave	0.3765	0.3625		0.00963	0.0100	-3.7	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.6433	0.6126		0.00952	0.0100	-4.8	20.0
Propionitrile	Ave	0.0155	0.0139		0.0894	0.100	-10.6	20.0
Ethyl acetate	Ave	0.1021	0.0889		0.0174	0.0200	-12.9	20.0
Methacrylonitrile	Ave	0.0766	0.0676		0.0883	0.100	-11.7	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.5678	0.5331		0.00939	0.0100	-6.1	20.0
n-Butanol	Ave	0.0023	0.0019		0.205	0.250	-17.8	20.0
Methyl methacrylate	Ave	0.1117	0.1023		0.0183	0.0200	-8.4	20.0
2-Nitropropane	Ave	0.0323	0.0308		0.0191	0.0200	-4.6	20.0
1-Chlorohexane	Ave	0.4255	0.4096		0.00963	0.0100	-3.7	20.0
Cyclohexanone	Ave	0.0078	0.0065		0.0842	0.100	-15.8	20.0
1,2,3-Trimethylbenzene	Ave	2.630	2.625		0.00998	0.0100	-0.2	20.0
1,3,5-Trichlorobenzene	Ave	0.9360	0.9445		0.0101	0.0100	0.9	20.0
2-Methylnaphthalene	Lin1		0.3394		0.0137	0.0200	-31.5*	20.0

Acetone and 2-butanone
only

FORM V

GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG No.: _____

Lab File ID: BFB4726.D

BFB Injection Date: 03/14/2016

Instrument ID: A3UX16

BFB Injection Time: 09:58

Analysis Batch No.: 221409

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.9
75	30.0 - 60.0 % of mass 95	49.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.7 (0.8) 1
174	50.0 - 120.00 % of mass 95	91.5
175	5.0 - 9.0 % of mass 174	6.6 (7.2) 1
176	95.0 - 101.0 % of mass 174	90.2 (98.7) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-221409/2	UXM3480.D	03/14/2016	10:35
	LCS 240-221409/4	UXM3482.D	03/14/2016	11:21
	MB 240-221409/6	UXM3484.D	03/14/2016	12:06
MSA-SW42A-030716	240-61849-21	UXM3485.D	03/14/2016	12:41
MSA-SW42B-030716	240-61849-22	UXM3490.D	03/14/2016	14:35
MSA-SW42C-030716	240-61849-23	UXM3491.D	03/14/2016	14:58
MSA-SW42D-030716	240-61849-24	UXM3492.D	03/14/2016	15:21
MSA-SW43A-030716	240-61849-25	UXM3493.D	03/14/2016	15:44

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Lab Sample ID: CCVIS 240-221409/2 Calibration Date: 03/14/2016 10:35

Instrument ID: A3UX16 Calib Start Date: 03/10/2016 09:37

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:54

Lab File ID: UXM3480.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	0.2280	0.3051	0.1000	0.0134	0.0100	33.8*	20.0
Chloromethane	Ave	0.2533	0.2759	0.1000	0.0109	0.0100	8.9	20.0
Vinyl chloride	Ave	0.2651	0.2901	0.1000	0.0109	0.0100	9.4	20.0
Butadiene	Ave	0.2408	0.2615		0.0109	0.0100	8.6	20.0
Bromomethane	Ave	0.1502	0.1558	0.0500	0.0104	0.0100	3.7	20.0
Chloroethane	Ave	0.1567	0.1630	0.0500	0.0104	0.0100	4.1	20.0
Dichlorofluoromethane	Ave	0.3726	0.3732		0.0100	0.0100	0.2	20.0
Trichlorofluoromethane	Ave	0.2909	0.3246	0.1000	0.0112	0.0100	11.6	20.0
Ethyl ether	Ave	0.1517	0.1680		0.0111	0.0100	10.7	20.0
Acrolein	Ave	0.0110	0.0106		0.0480	0.0500	-4.0	20.0
1,1-Dichloroethene	Ave	0.2214	0.2347	0.1000	0.0106	0.0100	6.0	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.1733	0.1937	0.0500	0.0112	0.0100	11.7	20.0
Acetone	Lin1		0.0564	0.0500	0.0232	0.0200	15.9	20.0
Iodomethane	Ave	0.3874	0.4240		0.0109	0.0100	9.4	20.0
Carbon disulfide	Ave	0.7264	0.7544	0.1000	0.0104	0.0100	3.8	20.0
3-Chloro-1-propene	Ave	0.1416	0.1496		0.0106	0.0100	5.6	20.0
Methyl acetate	Lin		0.0932*	0.1000	0.0520	0.0500	3.9	20.0
Methylene Chloride	Lin1		0.2837	0.1000	0.0112	0.0100	12.0	20.0
tert-Butyl alcohol	Ave	0.0102	0.0124		0.122	0.100	22.0*	20.0
Acrylonitrile	Ave	0.0447	0.0483		0.108	0.100	8.2	20.0
Methyl tert-butyl ether	Ave	0.5389	0.6045	0.1000	0.0112	0.0100	12.2	20.0
trans-1,2-Dichloroethene	Ave	0.2520	0.2677	0.1000	0.0106	0.0100	6.2	20.0
Hexane	Ave	0.0555	0.0652		0.0117	0.0100	17.5	20.0
1,1-Dichloroethane	Ave	0.4067	0.4453	0.1000	0.0110	0.0100	9.5	20.0
Vinyl acetate	Ave	0.2468	0.2931		0.0119	0.0100	18.7	20.0
2-Butanone	Ave	0.0583	0.0654	0.0500	0.0224	0.0200	12.2	20.0
2,2-Dichloropropane	Ave	0.3335	0.3712		0.0111	0.0100	11.3	20.0
cis-1,2-Dichloroethene	Ave	0.2704	0.2922	0.1000	0.0108	0.0100	8.1	20.0
Bromochloromethane	Ave	0.1183	0.1299		0.0110	0.0100	9.8	20.0
Tetrahydrofuran	Ave	0.0339	0.0359		0.0212	0.0200	5.9	20.0
Chloroform	Ave	0.4094	0.4469	0.2000	0.0109	0.0100	9.1	20.0
1,1,1-Trichloroethane	Ave	0.3565	0.3906	0.1000	0.0110	0.0100	9.6	20.0
Cyclohexane	Ave	0.3564	0.3884	0.1000	0.0109	0.0100	9.0	20.0
1,1-Dichloropropene	Ave	0.3128	0.3523		0.0113	0.0100	12.6	20.0
Carbon tetrachloride	Ave	0.3000	0.3391	0.1000	0.0113	0.0100	13.0	20.0
Isobutyl alcohol	Ave	0.0031	0.0038		0.303	0.250	21.0*	20.0
1,2-Dichloroethane	Ave	0.2662	0.2964	0.1000	0.0111	0.0100	11.3	20.0
Benzene	Ave	0.9538	1.042	0.5000	0.0109	0.0100	9.3	20.0
n-Heptane	Lin1		0.1512		0.0105	0.0100	4.9	20.0
Trichloroethene	Ave	0.2610	0.2862	0.2000	0.0110	0.0100	9.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Lab Sample ID: CCVIS 240-221409/2 Calibration Date: 03/14/2016 10:35

Instrument ID: A3UX16 Calib Start Date: 03/10/2016 09:37

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:54

Lab File ID: UXM3480.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.2009	0.2223	0.1000	0.0111	0.0100	10.6	20.0
Methylcyclohexane	Ave	0.3647	0.3946	0.1000	0.0108	0.0100	8.2	20.0
Dibromomethane	Ave	0.1083	0.1166		0.0108	0.0100	7.7	20.0
1,4-Dioxane	Ave	0.0011	0.0014		0.250	0.200	24.8*	20.0
Bromodichloromethane	Ave	0.2734	0.3116	0.1000	0.0114	0.0100	14.0	20.0
2-Chloroethyl vinyl ether	Ave	0.0851	0.0967		0.0227	0.0200	13.6	20.0
cis-1,3-Dichloropropene	Ave	0.3238	0.3692	0.1500	0.0114	0.0100	14.0	20.0
4-Methyl-2-pentanone	Ave	0.1133	0.1392	0.0500	0.0246	0.0200	22.8*	20.0
Toluene	Ave	1.373	1.493	0.4000	0.0109	0.0100	8.7	20.0
trans-1,3-Dichloropropene	Ave	0.3589	0.4069	0.1000	0.0113	0.0100	13.4	20.0
Ethyl methacrylate	Ave	0.2608	0.2905		0.0111	0.0100	11.4	20.0
1,1,2-Trichloroethane	Ave	0.2144	0.2278	0.1000	0.0106	0.0100	6.3	20.0
1,3-Dichloropropane	Ave	0.3689	0.3998		0.0108	0.0100	8.4	20.0
Tetrachloroethene	Ave	0.2761	0.3070	0.2000	0.0111	0.0100	11.2	20.0
2-Hexanone	Ave	0.1119	0.1327	0.0500	0.0237	0.0200	18.6	20.0
Dibromochloromethane	Ave	0.2393	0.2770		0.0116	0.0100	15.7	20.0
1,2-Dibromoethane	Ave	0.2069	0.2196		0.0106	0.0100	6.2	20.0
Chlorobenzene	Ave	0.9163	0.9854	0.3000	0.0108	0.0100	7.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3112	0.3447		0.0111	0.0100	10.8	20.0
Ethylbenzene	Ave	0.5025	0.5499		0.0109	0.0100	9.4	20.0
m-Xylene & p-Xylene	Ave	0.6224	0.6885		0.0111	0.0100	10.6	20.0
o-Xylene	Ave	0.6254	0.6872		0.0110	0.0100	9.9	20.0
Styrene	Ave	1.016	1.140	0.3000	0.0112	0.0100	12.2	20.0
Bromoform	Ave	0.1352	0.1588	0.1000	0.0117	0.0100	17.4	20.0
Isopropylbenzene	Ave	1.596	1.731	0.1000	0.0108	0.0100	8.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.4554	0.4712	0.3000	0.0103	0.0100	3.5	20.0
Bromobenzene	Ave	0.7450	0.7889		0.0106	0.0100	5.9	20.0
1,2,3-Trichloropropane	Ave	0.1518	0.1546		0.0102	0.0100	1.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1169	0.1359		0.0116	0.0100	16.2	20.0
n-Propylbenzene	Ave	0.8259	0.8966		0.0109	0.0100	8.6	20.0
2-Chlorotoluene	Ave	0.7232	0.7457		0.0103	0.0100	3.1	20.0
1,3,5-Trimethylbenzene	Ave	2.452	2.613		0.0107	0.0100	6.6	20.0
4-Chlorotoluene	Ave	0.7440	0.7936		0.0107	0.0100	6.7	20.0
tert-Butylbenzene	Ave	2.170	2.263		0.0104	0.0100	4.3	20.0
1,2,4-Trimethylbenzene	Ave	2.535	2.711		0.0107	0.0100	7.0	20.0
sec-Butylbenzene	Ave	2.928	3.072		0.0105	0.0100	4.9	20.0
1,3-Dichlorobenzene	Ave	1.410	1.501	0.6000	0.0106	0.0100	6.4	20.0
p-Isopropyltoluene	Ave	2.537	2.703		0.0107	0.0100	6.5	20.0
1,4-Dichlorobenzene	Ave	1.442	1.526	0.5000	0.0106	0.0100	5.8	20.0
n-Butylbenzene	Ave	2.029	2.119		0.0104	0.0100	4.4	20.0
1,2-Dichlorobenzene	Ave	1.308	1.402	0.4000	0.0107	0.0100	7.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-221409/2 Calibration Date: 03/14/2016 10:35
 Instrument ID: A3UX16 Calib Start Date: 03/10/2016 09:37
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:54
 Lab File ID: UXM3480.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0775	0.0883	0.0500	0.0114	0.0100	13.8	20.0
1,2,4-Trichlorobenzene	Ave	0.6880	0.7756	0.2000	0.0113	0.0100	12.7	20.0
Hexachlorobutadiene	Ave	0.3067	0.3032		0.00988	0.0100	-1.2	20.0
Naphthalene	Ave	1.194	1.334		0.0112	0.0100	11.7	20.0
1,2,3-Trichlorobenzene	Ave	0.5699	0.6324		0.0111	0.0100	11.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2207	0.2129		0.0110	0.0114	-3.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2295	0.2218		0.0110	0.0114	-3.4	20.0
Toluene-d8 (Surr)	Ave	1.194	1.168		0.0111	0.0114	-2.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4610	0.4417		0.0109	0.0114	-4.2	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Lab File ID: BFB969.D BFB Injection Date: 03/10/2016
Instrument ID: A3UX17 BFB Injection Time: 08:32
Analysis Batch No.: 220932

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.5
75	30.0 - 60.0 % of mass 95	52.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.6 (0.8) 1
174	50.0 - 120.00 % of mass 95	77.3
175	5.0 - 9.0 % of mass 174	5.5 (7.1) 1
176	95.0 - 101.0 % of mass 174	74.8 (96.7) 1
177	5.0 - 9.0 % of mass 176	4.8 (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
	STD8260 240-220932/2	UXR0155.D	03/10/2016	09:28
	STD8260 240-220932/3	UXR0156.D	03/10/2016	09:51
	STD8260 240-220932/4	UXR0157.D	03/10/2016	10:13
	STD8260 240-220932/5	UXR0158.D	03/10/2016	10:36
	STD8260 240-220932/6	UXR0159.D	03/10/2016	10:58
	STD8260 240-220932/7	UXR0160.D	03/10/2016	11:20
	ICV 240-220932/8	UXR0161.D	03/10/2016	12:21
	STDA9 240-220932/9	UXR0162.D	03/10/2016	13:31
	STDA9 240-220932/10	UXR0163.D	03/10/2016	13:53
	STDA9 240-220932/11	UXR0164.D	03/10/2016	14:15
	STDA9 240-220932/12	UXR0165.D	03/10/2016	14:37
	STDA9 240-220932/13	UXR0166.D	03/10/2016	15:00
	STDA9 240-220932/14	UXR0167.D	03/10/2016	15:22
	ICV 240-220932/15	UXR0168.D	03/10/2016	15:44

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1 Analy Batch No.: 220932

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/10/2016 09:28 Calibration End Date: 03/10/2016 11:20 Calibration ID: 33387

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-220932/7	UXR0160.D
Level 2	STD8260 240-220932/6	UXR0159.D
Level 3	STD8260 240-220932/5	UXR0158.D
Level 4	STD8260 240-220932/4	UXR0157.D
Level 5	STD8260 240-220932/3	UXR0156.D
Level 6	STD8260 240-220932/2	UXR0155.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2703 0.3084	0.2897	0.2792	0.2958	0.3085	Ave		0.2920			0.1000	5.3		20.0			
Chloromethane	0.3335 0.3113	0.3206	0.3194	0.3234	0.3154	Ave		0.3206			0.1000	2.4		20.0			
Vinyl chloride	0.2804 0.3148	0.3098	0.3150	0.3191	0.3205	Ave		0.3099			0.1000	4.8		20.0			
Butadiene	0.3050 0.3042	0.3054	0.2967	0.3061	0.3105	Ave		0.3046				1.5		20.0			
Bromomethane	0.1559 0.1522	0.1583	0.1555	0.1550	0.1510	Ave		0.1547			0.0500	1.7		20.0			
Chloroethane	0.1830 0.1931	0.1973	0.1878	0.1919	0.1888	Ave		0.1903				2.6		20.0			
Dichlorofluoromethane	0.4004 0.4374	0.4251	0.4207	0.4263	0.4220	Ave		0.4220				2.9		20.0			
Trichlorofluoromethane	0.2491 0.3455	0.2826	0.2952	0.3172	0.3358	Ave		0.3042			0.1000	11.8		20.0			
Ethyl ether	0.2153 0.2291	0.2336	0.2316	0.2317	0.2329	Ave		0.2290				3.0		20.0			
Acrolein	0.0264 0.0216	0.0215	0.0213	0.0229	0.0222	Ave		0.0226				8.6		20.0			
1,1-Dichloroethene	0.2283 0.2405	0.2400	0.2313	0.2277	0.2415	Ave		0.2349			0.1000	2.8		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1786 0.1911	0.1769	0.1697	0.1781	0.1907	Ave		0.1808			0.0500	4.7		20.0			
Acetone	0.2085 0.0690	0.1030	0.0806	0.0782	0.0730	Lin1	0.1409	0.0683			0.0500				0.9990		0.9900
Iodomethane	0.3613 0.3780	0.3649	0.3810	0.3732	0.3809	Ave		0.3732				2.3		20.0			
Carbon disulfide	0.6220 0.7694	0.6702	0.6878	0.7016	0.7494	Ave		0.7001			0.1000	7.7		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.: 240-61849-1 Analy Batch No.: 220932

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/10/2016 09:28 Calibration End Date: 03/10/2016 11:20 Calibration ID: 33387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
3-Chloro-1-propene	0.1294 0.1510	0.1309	0.1451	0.1441	0.1509	Ave		0.1419				6.7		20.0			
Methyl acetate	0.1859 0.1724	0.1824	0.1812	0.1780	0.1808	Ave		0.1801			0.1000	2.5		20.0			
Methylene Chloride	0.4678 0.2608	0.3152	0.2852	0.2658	0.2696	Lin1	0.1063	0.2598			0.1000				1.0000		0.9900
tert-Butyl alcohol	0.0174 0.0155	0.0173	0.0160	0.0164	0.0168	Ave		0.0166				4.5		20.0			
Acrylonitrile	0.0833 0.0869	0.0930	0.0905	0.0899	0.0912	Ave		0.0891				3.9		20.0			
Methyl tert-butyl ether	0.6337 0.7497	0.7000	0.7181	0.7261	0.7558	Ave		0.7139			0.1000	6.2		20.0			
trans-1,2-Dichloroethene	0.2596 0.2631	0.2559	0.2594	0.2603	0.2657	Ave		0.2607			0.1000	1.3		20.0			
Hexane	0.0713 0.0663	0.0599	0.0582	0.0587	0.0631	Ave		0.0629				8.1		20.0			
1,1-Dichloroethane	0.4690 0.4900	0.4878	0.4909	0.4834	0.4954	Ave		0.4861			0.1000	1.9		20.0			
Vinyl acetate	0.3945 0.4723	0.4247	0.4143	0.4371	0.4691	Ave		0.4353				7.1		20.0			
2,2-Dichloropropane	0.2589 0.2888	0.2665	0.2757	0.2831	0.2969	Ave		0.2783				5.1		20.0			
cis-1,2-Dichloroethene	0.2637 0.2849	0.2814	0.2850	0.2761	0.2881	Ave		0.2799			0.1000	3.2		20.0			
2-Butanone	0.1501 0.0950	0.1056	0.1017	0.0994	0.0988	Lin1	0.0540	0.0955			0.0500				1.0000		0.9900
Bromochloromethane	0.1271 0.1280	0.1281	0.1239	0.1244	0.1331	Ave		0.1275				2.6		20.0			
Tetrahydrofuran	0.0803 0.0666	0.0723	0.0718	0.0715	0.0699	Ave		0.0721				6.3		20.0			
Chloroform	0.4132 0.4494	0.4569	0.4582	0.4503	0.4643	Ave		0.4487				4.1		20.0			
1,1,1-Trichloroethane	0.3400 0.3642	0.3492	0.3661	0.3618	0.3757	Ave		0.3595			0.1000	3.6		20.0			
Cyclohexane	0.4614 0.4683	0.4425	0.4216	0.4257	0.4627	Ave		0.4470			0.1000	4.5		20.0			
1,1-Dichloropropene	0.3424 0.3708	0.3633	0.3686	0.3607	0.3798	Ave		0.3643				3.5		20.0			
Carbon tetrachloride	0.2483 0.3216	0.2953	0.2887	0.2978	0.3208	Ave		0.2954			0.1000	9.1		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.: 240-61849-1 Analy Batch No.: 220932

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/10/2016 09:28 Calibration End Date: 03/10/2016 11:20 Calibration ID: 33387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isobutyl alcohol	0.0119 0.0085	0.0097	0.0094	0.0091	0.0095	Ave		0.0097				11.9		20.0			
Benzene	1.0605 1.0949	1.0926	1.1000	1.0803	1.1039	Ave		1.0887			0.5000	1.5		20.0			
1,2-Dichloroethane	0.3503 0.3807	0.4066	0.3931	0.3880	0.3933	Ave		0.3853			0.1000	5.0		20.0			
n-Heptane	0.0569 0.0611	0.0504	0.0480	0.0523	0.0574	Ave		0.0544				9.0		20.0			
Trichloroethene	0.2432 0.2703	0.2675	0.2718	0.2654	0.2728	Ave		0.2652			0.2000	4.2		20.0			
Methylcyclohexane	0.3881 0.4116	0.3690	0.3594	0.3685	0.4027	Ave		0.3832			0.1000	5.5		20.0			
1,2-Dichloropropane	0.2220 0.2625	0.2462	0.2619	0.2582	0.2612	Ave		0.2520			0.1000	6.3		20.0			
1,4-Dioxane	0.0022 0.0021	0.0027	0.0025	0.0026	0.0026	Ave		0.0024				9.7		20.0			
Dibromomethane	0.1210 0.1442	0.1406	0.1429	0.1441	0.1475	Ave		0.1400				6.8		20.0			
Bromodichloromethane	0.2961 0.3300	0.2849	0.2910	0.3048	0.3270	Ave		0.3056			0.1000	6.2		20.0			
2-Chloroethyl vinyl ether	0.1198 0.1593	0.1390	0.1559	0.1530	0.1572	Ave		0.1474				10.4		20.0			
cis-1,3-Dichloropropene	0.3145 0.4285	0.3448	0.3721	0.3905	0.4165	Ave		0.3778			0.1500	11.4		20.0			
4-Methyl-2-pentanone	0.2033 0.2195	0.2121	0.2167	0.2190	0.2241	Ave		0.2158			0.0500	3.4		20.0			
Toluene	1.4724 1.5916	1.5488	1.5959	1.5871	1.6000	Ave		1.5660			0.4000	3.2		20.0			
trans-1,3-Dichloropropene	0.3421 0.5169	0.3897	0.4471	0.4771	0.5043	Lin1	-0.133	0.5099			0.1000				0.9990		0.9900
Ethyl methacrylate	0.3232 0.4502	0.3782	0.4320	0.4457	0.4635	Ave		0.4155				13.0		20.0			
1,1,2-Trichloroethane	0.2744 0.2873	0.2845	0.3069	0.2954	0.2958	Ave		0.2907			0.1000	3.9		20.0			
Tetrachloroethene	0.2841 0.2925	0.2865	0.2857	0.2883	0.2940	Ave		0.2885			0.2000	1.4		20.0			
1,3-Dichloropropane	0.5215 0.5350	0.5270	0.5604	0.5466	0.5498	Ave		0.5400				2.7		20.0			
2-Hexanone	0.1735 0.2002	0.1887	0.2119	0.2155	0.2136	Ave		0.2006			0.0500	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.: 240-61849-1 Analy Batch No.: 220932

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/10/2016 09:28 Calibration End Date: 03/10/2016 11:20 Calibration ID: 33387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dibromochloromethane	0.2280 0.3091	0.2416	0.2699	0.2791	0.3002	Ave		0.2713				11.7		20.0			
1,2-Dibromoethane	0.2495 0.2889	0.2785	0.2921	0.2910	0.2974	Ave		0.2829				6.2		20.0			
Chlorobenzene	0.9614 0.9758	0.9938	0.9884	0.9796	1.0021	Ave		0.9835			0.3000	1.5		20.0			
1,1,1,2-Tetrachloroethane	0.2542 0.3373	0.2942	0.3080	0.3252	0.3369	Ave		0.3093				10.3		20.0			
Ethylbenzene	0.5059 0.5482	0.5181	0.5343	0.5339	0.5522	Ave		0.5321				3.3		20.0			
m-Xylene & p-Xylene	0.5962 0.6832	0.6195	0.6523	0.6696	0.6886	Ave		0.6516				5.7		20.0			
o-Xylene	0.5910 0.6772	0.6254	0.6608	0.6631	0.6878	Ave		0.6509				5.6		20.0			
Styrene	0.8977 1.1638	0.9988	1.0960	1.1136	1.1799	Ave		1.0750			0.3000	10.0		20.0			
Bromoform	0.1169 0.1829	0.1280	0.1397	0.1522	0.1709	Lin1	-0.057	0.1756			0.1000				0.9940		0.9900
Isopropylbenzene	1.4379 1.6870	1.5013	1.6072	1.6151	1.6794	Ave		1.5880			0.1000	6.3		20.0			
1,1,2,2-Tetrachloroethane	0.6336 0.6842	0.6774	0.7234	0.7153	0.7068	Ave		0.6901			0.3000	4.8		20.0			
Bromobenzene	0.7345 0.7969	0.8229	0.8159	0.7985	0.8088	Ave		0.7963				4.0		20.0			
1,2,3-Trichloropropane	0.2375 0.2208	0.2395	0.2380	0.2355	0.2295	Ave		0.2335				3.0		20.0			
trans-1,4-Dichloro-2-butene	0.1761 0.2572	0.2063	0.2376	0.2241	0.2541	Ave		0.2259				13.7		20.0			
n-Propylbenzene	0.7129 0.8522	0.8014	0.8363	0.8284	0.8492	Ave		0.8134				6.5		20.0			
2-Chlorotoluene	0.6905 0.7352	0.7176	0.7447	0.7167	0.7376	Ave		0.7237				2.7		20.0			
1,3,5-Trimethylbenzene	2.1427 2.6114	2.3934	2.5087	2.4886	2.6206	Ave		2.4609				7.2		20.0			
4-Chlorotoluene	0.7211 0.7802	0.7344	0.7896	0.7699	0.7959	Ave		0.7652				4.0		20.0			
tert-Butylbenzene	1.9167 2.1237	2.0666	2.0303	2.0380	2.1422	Ave		2.0529				3.9		20.0			
1,2,4-Trimethylbenzene	2.2180 2.7097	2.4921	2.6314	2.6069	2.7152	Ave		2.5622				7.3		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.: 240-61849-1 Analy Batch No.: 220932
SDG No.: _____
Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/10/2016 09:28 Calibration End Date: 03/10/2016 11:20 Calibration ID: 33387

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	2.5568 2.9318	2.7418	2.7694	2.7902	2.9101	Ave		2.7834				4.9		20.0			
1,3-Dichlorobenzene	1.3776 1.4902	1.4755	1.4951	1.4601	1.4965	Ave		1.4658			0.6000	3.1		20.0			
p-Isopropyltoluene	2.0157 2.5644	2.2864	2.3770	2.4196	2.5235	Ave		2.3644				8.4		20.0			
1,4-Dichlorobenzene	1.4635 1.5114	1.5295	1.5305	1.4822	1.5159	Ave		1.5055			0.5000	1.8		20.0			
n-Butylbenzene	1.6990 2.1380	1.8576	1.9116	1.9676	2.1111	Ave		1.9475				8.4		20.0			
1,2-Dichlorobenzene	1.3925 1.4225	1.4089	1.4523	1.4202	1.4342	Ave		1.4218			0.4000	1.4		20.0			
1,2-Dibromo-3-Chloropropane	0.0995 0.1140	0.1007	0.1002	0.1067	0.1160	Ave		0.1062			0.0500	6.9		20.0			
1,2,4-Trichlorobenzene	0.9728 0.8181	0.9049	0.8877	0.8841	0.8767	Ave		0.8907			0.2000	5.6		20.0			
Hexachlorobutadiene	0.5580 0.2994	0.3976	0.3500	0.3451	0.3221	Lin1	0.1495	0.3071							0.9980		0.9900
Naphthalene	2.1174 1.9932	2.1795	2.2015	2.2669	2.2735	Ave		2.1720				4.8		20.0			
1,2,3-Trichlorobenzene	0.9653 0.7032	0.8917	0.8352	0.8333	0.8077	Ave		0.8394				10.4		20.0			
Dibromofluoromethane (Surr)	0.1941 0.2322	0.2291	0.2280	0.2370	0.2336	Ave		0.2257				7.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2978 0.3196	0.3312	0.3183	0.3297	0.3290	Ave		0.3209				3.9		20.0			
Toluene-d8 (Surr)	1.1563 1.3616	1.3209	1.3588	1.3911	1.3627	Ave		1.3252				6.5		20.0			
4-Bromofluorobenzene (Surr)	0.4358 0.5264	0.4993	0.5230	0.5301	0.5330	Ave		0.5079				7.3		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.: 240-61849-1 Analy Batch No.: 220932

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/10/2016 13:31 Calibration End Date: 03/10/2016 15:22 Calibration ID: 33389

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-220932/14	UXR0167.D
Level 2	STDA9 240-220932/13	UXR0166.D
Level 3	STDA9 240-220932/12	UXR0165.D
Level 4	STDA9 240-220932/11	UXR0164.D
Level 5	STDA9 240-220932/10	UXR0163.D
Level 6	STDA9 240-220932/9	UXR0162.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetonitrile	0.0356 0.0276	0.0325	0.0307	0.0319	0.0298	Ave		0.0313				8.6		20.0			
Diisopropyl ether	0.2214 0.2430	0.2307	0.2368	0.2455	0.2467	Ave		0.2373				4.1		20.0			
2-Chloro-1,3-butadiene	0.4338 0.4721	0.4515	0.4461	0.4843	0.4915	Ave		0.4632				4.9		20.0			
Ethyl-t-butyl ether (ETBE)	0.7109 0.8168	0.7562	0.7788	0.8047	0.8265	Ave		0.7823				5.6		20.0			
Ethyl acetate	0.2246 0.2119	0.2105	0.2223	0.2257	0.2203	Ave		0.2192				3.0		20.0			
Propionitrile	0.0320 0.0317	0.0318	0.0336	0.0345	0.0342	Ave		0.0330				3.9		20.0			
Methacrylonitrile	0.1617 0.1538	0.1580	0.1619	0.1664	0.1624	Ave		0.1607				2.7		20.0			
Tert-amyl-methyl ether (TAME)	0.5840 0.6958	0.6019	0.6368	0.6889	0.6964	Ave		0.6506				7.7		20.0			
n-Butanol	0.0054 0.0066	0.0059	0.0063	0.0069	0.0073	Ave		0.0064				10.8		20.0			
Ethyl acrylate	0.2493 0.2926	0.2616	0.2830	0.2925	0.2983	Ave		0.2796				7.0		20.0			
Methyl methacrylate	0.2029 0.2310	0.2055	0.2304	0.2311	0.2341	Ave		0.2225				6.4		20.0			
2-Nitropropane	0.0610 0.0597	0.0497	0.0495	0.0537	0.0571	Ave		0.0551				9.0		20.0			
n-Butyl acetate	0.1634 0.2089	0.1655	0.1783	0.2015	0.2094	Ave		0.1878				11.4		20.0			
1-Chlorohexane	0.3902 0.4752	0.4064	0.4117	0.4533	0.4765	Ave		0.4355				8.6		20.0			
Cyclohexanone	0.0163 0.0165	0.0158	0.0158	0.0182	0.0181	Ave		0.0168				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.: 240-61849-1 Analy Batch No.: 220932

SDG No.: _____

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/10/2016 13:31 Calibration End Date: 03/10/2016 15:22 Calibration ID: 33389

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trimethylbenzene	2.3769 2.8461	2.5044	2.6453	2.8540	2.8867	Ave		2.6856				7.9		20.0			
1,3,5-Trichlorobenzene	0.9706 0.9503	0.9198	0.9610	0.9921	0.9683	Ave		0.9603				2.5		20.0			
2-Methylnaphthalene	1.1320 +++++	1.2730	1.3268	1.4288	1.3147	Ave		1.2950				8.3		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.: 240-61849-1

SDG No.: _____

Lab Sample ID: ICV 240-220932/8 Calibration Date: 03/10/2016 12:21

Instrument ID: A3UX17 Calib Start Date: 03/10/2016 09:28

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:20

Lab File ID: UXR0161.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	0.2920	0.3653	0.1000	0.0125	0.0100	25.1*	20.0
Chloromethane	Ave	0.3206	0.3636	0.1000	0.0113	0.0100	13.4	20.0
Vinyl chloride	Ave	0.3099	0.3562	0.1000	0.0115	0.0100	14.9	20.0
Butadiene	Ave	0.3046	0.3294		0.0108	0.0100	8.1	20.0
Bromomethane	Ave	0.1547	0.1734	0.0500	0.0112	0.0100	12.1	20.0
Chloroethane	Ave	0.1903	0.2031	0.0500	0.0107	0.0100	6.7	20.0
Dichlorofluoromethane	Ave	0.4220	0.4596		0.0109	0.0100	8.9	20.0
Trichlorofluoromethane	Ave	0.3042	0.3437	0.1000	0.0113	0.0100	13.0	20.0
Ethyl ether	Ave	0.2290	0.2434		0.0106	0.0100	6.3	20.0
Acrolein	Ave	0.0226	0.0392		0.0866	0.0500	73.1*	20.0
1,1-Dichloroethene	Ave	0.2349	0.2638	0.1000	0.0112	0.0100	12.3	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.1808	0.2024	0.0500	0.0112	0.0100	11.9	20.0
Acetone	Lin1		0.0714	0.0500	0.0188	0.0200	-5.8	20.0
Iodomethane	Ave	0.3732	0.4288		0.0115	0.0100	14.9	20.0
Carbon disulfide	Ave	0.7001	0.8353	0.1000	0.0119	0.0100	19.3	20.0
3-Chloro-1-propene	Ave	0.1419	0.1608		0.0113	0.0100	13.3	20.0
Methyl acetate	Ave	0.1801	0.1869	0.1000	0.0519	0.0500	3.8	20.0
Methylene Chloride	Lin1		0.2863	0.1000	0.0106	0.0100	6.1	20.0
tert-Butyl alcohol	Ave	0.0166	0.0160		0.0965	0.100	-3.5	20.0
Acrylonitrile	Ave	0.0891	0.0928		0.104	0.100	4.1	20.0
Methyl tert-butyl ether	Ave	0.7139	0.7587	0.1000	0.0106	0.0100	6.3	20.0
trans-1,2-Dichloroethene	Ave	0.2607	0.2908	0.1000	0.0112	0.0100	11.6	20.0
Hexane	Ave	0.0629	0.0691		0.0110	0.0100	9.8	20.0
1,1-Dichloroethane	Ave	0.4861	0.5080	0.1000	0.0105	0.0100	4.5	20.0
Vinyl acetate	Ave	0.4353	0.4009		0.00921	0.0100	-7.9	20.0
2,2-Dichloropropane	Ave	0.2783	0.2924		0.0105	0.0100	5.0	20.0
2-Butanone	Lin1		0.1029	0.0500	0.0210	0.0200	4.9	20.0
cis-1,2-Dichloroethene	Ave	0.2799	0.2992	0.1000	0.0107	0.0100	6.9	20.0
Bromochloromethane	Ave	0.1275	0.1324		0.0104	0.0100	3.9	20.0
Tetrahydrofuran	Ave	0.0721	0.0702		0.0195	0.0200	-2.6	20.0
Chloroform	Ave	0.4487	0.4840	0.2000	0.0108	0.0100	7.9	20.0
1,1,1-Trichloroethane	Ave	0.3595	0.3890	0.1000	0.0108	0.0100	8.2	20.0
Cyclohexane	Ave	0.4470	0.4808	0.1000	0.0108	0.0100	7.6	20.0
1,1-Dichloropropene	Ave	0.3643	0.3895		0.0107	0.0100	6.9	20.0
Carbon tetrachloride	Ave	0.2954	0.3339	0.1000	0.0113	0.0100	13.0	20.0
Isobutyl alcohol	Ave	0.0097	0.0088		0.228	0.250	-8.7	20.0
Benzene	Ave	1.089	1.155	0.5000	0.0106	0.0100	6.1	20.0
1,2-Dichloroethane	Ave	0.3853	0.4022	0.1000	0.0104	0.0100	4.4	20.0
n-Heptane	Ave	0.0544	0.0583		0.0107	0.0100	7.1	20.0
Trichloroethene	Ave	0.2652	0.2884	0.2000	0.0109	0.0100	8.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Lab Sample ID: ICV 240-220932/8 Calibration Date: 03/10/2016 12:21

Instrument ID: A3UX17 Calib Start Date: 03/10/2016 09:28

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:20

Lab File ID: UXR0161.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3832	0.4140	0.1000	0.0108	0.0100	8.0	20.0
1,2-Dichloropropane	Ave	0.2520	0.2738	0.1000	0.0109	0.0100	8.6	20.0
1,4-Dioxane	Ave	0.0024	0.0022		0.177	0.200	-11.5	20.0
Dibromomethane	Ave	0.1400	0.1515		0.0108	0.0100	8.2	20.0
Bromodichloromethane	Ave	0.3056	0.3285	0.1000	0.0107	0.0100	7.5	20.0
2-Chloroethyl vinyl ether	Ave	0.1474	0.1527		0.0104	0.0100	3.6	20.0
cis-1,3-Dichloropropene	Ave	0.3778	0.4185	0.1500	0.0111	0.0100	10.8	20.0
4-Methyl-2-pentanone	Ave	0.2158	0.2247	0.0500	0.0208	0.0200	4.1	20.0
Toluene	Ave	1.566	1.697	0.4000	0.0108	0.0100	8.3	20.0
trans-1,3-Dichloropropene	Lin1		0.4802	0.1000	0.00968	0.0100	-3.2	20.0
Ethyl methacrylate	Ave	0.4155	0.4605		0.0111	0.0100	10.8	20.0
1,1,2-Trichloroethane	Ave	0.2907	0.3073	0.1000	0.0106	0.0100	5.7	20.0
Tetrachloroethene	Ave	0.2885	0.3124	0.2000	0.0108	0.0100	8.3	20.0
1,3-Dichloropropane	Ave	0.5400	0.5646		0.0105	0.0100	4.5	20.0
2-Hexanone	Ave	0.2006	0.2161	0.0500	0.0215	0.0200	7.7	20.0
Dibromochloromethane	Ave	0.2713	0.2861		0.0105	0.0100	5.5	20.0
1,2-Dibromoethane	Ave	0.2829	0.3065		0.0108	0.0100	8.4	20.0
Chlorobenzene	Ave	0.9835	1.024	0.3000	0.0104	0.0100	4.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3093	0.3384		0.0109	0.0100	9.4	20.0
Ethylbenzene	Ave	0.5321	0.5782		0.0109	0.0100	8.7	20.0
m-Xylene & p-Xylene	Ave	0.6516	0.7231		0.0111	0.0100	11.0	20.0
o-Xylene	Ave	0.6509	0.6947		0.0107	0.0100	6.7	20.0
Styrene	Ave	1.075	1.192	0.3000	0.0111	0.0100	10.9	20.0
Bromoform	Lin1		0.1742	0.1000	0.0102	0.0100	2.4	20.0
Isopropylbenzene	Ave	1.588	1.732	0.1000	0.0109	0.0100	9.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6901	0.7272	0.3000	0.0105	0.0100	5.4	20.0
Bromobenzene	Ave	0.7963	0.8553		0.0107	0.0100	7.4	20.0
1,2,3-Trichloropropane	Ave	0.2335	0.2405		0.0103	0.0100	3.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2259	0.2518		0.0111	0.0100	11.5	20.0
n-Propylbenzene	Ave	0.8134	0.9081		0.0112	0.0100	11.6	20.0
2-Chlorotoluene	Ave	0.7237	0.7792		0.0108	0.0100	7.7	20.0
1,3,5-Trimethylbenzene	Ave	2.461	2.715		0.0110	0.0100	10.3	20.0
4-Chlorotoluene	Ave	0.7652	0.8414		0.0110	0.0100	10.0	20.0
tert-Butylbenzene	Ave	2.053	2.336		0.0114	0.0100	13.8	20.0
1,2,4-Trimethylbenzene	Ave	2.562	2.812		0.0110	0.0100	9.8	20.0
sec-Butylbenzene	Ave	2.783	3.050		0.0110	0.0100	9.6	20.0
1,3-Dichlorobenzene	Ave	1.466	1.572	0.6000	0.0107	0.0100	7.2	20.0
p-Isopropyltoluene	Ave	2.364	2.690		0.0114	0.0100	13.8	20.0
1,4-Dichlorobenzene	Ave	1.505	1.615	0.5000	0.0107	0.0100	7.3	20.0
n-Butylbenzene	Ave	1.947	2.169		0.0111	0.0100	11.4	20.0
1,2-Dichlorobenzene	Ave	1.422	1.523	0.4000	0.0107	0.0100	7.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: ICV 240-220932/8 Calibration Date: 03/10/2016 12:21
 Instrument ID: A3UX17 Calib Start Date: 03/10/2016 09:28
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:20
 Lab File ID: UXR0161.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1062	0.1089	0.0500	0.0103	0.0100	2.6	20.0
1,2,4-Trichlorobenzene	Ave	0.8907	0.8637	0.2000	0.00970	0.0100	-3.0	20.0
Hexachlorobutadiene	Lin1		0.3352		0.0104	0.0100	4.3	20.0
Naphthalene	Ave	2.172	2.012		0.00926	0.0100	-7.4	20.0
1,2,3-Trichlorobenzene	Ave	0.8394	0.7440		0.00886	0.0100	-11.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2257	0.2386		0.0106	0.0100	5.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3209	0.3297		0.0103	0.0100	2.7	20.0
Toluene-d8 (Surr)	Ave	1.325	1.421		0.0107	0.0100	7.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5079	0.5310		0.0105	0.0100	4.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: ICV 240-220932/15 Calibration Date: 03/10/2016 15:44
 Instrument ID: A3UX17 Calib Start Date: 03/10/2016 13:31
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 15:22
 Lab File ID: UXR0168.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0313	0.0304		0.0970	0.100	-3.0	20.0
Diisopropyl ether	Ave	0.2373	0.2546		0.0107	0.0100	7.3	20.0
2-Chloro-1,3-butadiene	Ave	0.4632	0.4899		0.0106	0.0100	5.8	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7823	0.8211		0.0105	0.0100	5.0	20.0
Ethyl acetate	Ave	0.2192	0.2303		0.0210	0.0200	5.1	20.0
Propionitrile	Ave	0.0330	0.0344		0.105	0.100	4.5	20.0
Methacrylonitrile	Ave	0.1607	0.1674		0.104	0.100	4.1	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.6506	0.6629		0.0102	0.0100	1.9	20.0
n-Butanol	Ave	0.0064	0.0059		0.230	0.250	-8.2	20.0
Methyl methacrylate	Ave	0.2225	0.2406		0.0216	0.0200	8.1	20.0
2-Nitropropane	Ave	0.0551	0.0525		0.0191	0.0200	-4.7	20.0
1-Chlorohexane	Ave	0.4355	0.4530		0.0104	0.0100	4.0	20.0
Cyclohexanone	Ave	0.0168	0.0150		0.0896	0.100	-10.4	20.0
1,2,3-Trimethylbenzene	Ave	2.686	2.770		0.0103	0.0100	3.1	20.0
1,3,5-Trichlorobenzene	Ave	0.9603	0.9461		0.00985	0.0100	-1.5	20.0
2-Methylnaphthalene	Ave	1.295	0.8451		0.0131	0.0200	-34.7*	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Lab File ID: BFB970.D BFB Injection Date: 03/11/2016
Instrument ID: A3UX17 BFB Injection Time: 10:50
Analysis Batch No.: 221148

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.9
75	30.0 - 60.0 % of mass 95	53.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	0.4 (0.5) 1
174	50.0 - 120.00 % of mass 95	80.5
175	5.0 - 9.0 % of mass 174	5.8 (7.2) 1
176	95.0 - 101.0 % of mass 174	80.0 (99.4) 1
177	5.0 - 9.0 % of mass 176	5.2 (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 240-221148/2	UXR0179.D	03/11/2016	11:36
	CCV 240-221148/3	UXR0180.D	03/11/2016	11:59
	LCS 240-221148/4	UXR0181.D	03/11/2016	12:21
	MB 240-221148/6	UXR0183.D	03/11/2016	13:06
MSA-SW37A-030716	240-61849-1	UXR0184.D	03/11/2016	13:40
MSA-SW37B-030716	240-61849-2	UXR0185.D	03/11/2016	14:03
MSA-SW37C-030716	240-61849-3	UXR0186.D	03/11/2016	14:25
MSA-SW37D-030716	240-61849-4	UXR0187.D	03/11/2016	14:48
MSA-SW38A-030716	240-61849-5	UXR0188.D	03/11/2016	15:10
MSA-SW38B-030716	240-61849-6	UXR0189.D	03/11/2016	15:32
MSA-SW38C-030716	240-61849-7	UXR0190.D	03/11/2016	15:55
MSA-SW38D-030716	240-61849-8	UXR0191.D	03/11/2016	16:17
MSA-SW39A-030716	240-61849-9	UXR0192.D	03/11/2016	16:39
MSA-SW39B-030716	240-61849-10	UXR0193.D	03/11/2016	17:02
MSA-SW39C-030716	240-61849-11	UXR0194.D	03/11/2016	17:24
MSA-SW39D-030716	240-61849-12	UXR0195.D	03/11/2016	17:47
MSA-SW40A-030716	240-61849-13	UXR0196.D	03/11/2016	18:09
MSA-SW40B-030716	240-61849-14	UXR0197.D	03/11/2016	18:32
MSA-SW40C-030716	240-61849-15	UXR0198.D	03/11/2016	18:54
MSA-SW40D-030716	240-61849-16	UXR0199.D	03/11/2016	19:16
MSA-SW41A-030716	240-61849-17	UXR0200.D	03/11/2016	19:39
MSA-SW41B-030716	240-61849-18	UXR0201.D	03/11/2016	20:01
MSA-SW41C-030716	240-61849-19	UXR0202.D	03/11/2016	20:23
MSA-SW41D-030716	240-61849-20	UXR0203.D	03/11/2016	20:46
MSA-SW37A-030716 MS	240-61849-1 MS	UXR0204.D	03/11/2016	21:08
MSA-SW37A-030716 MSD	240-61849-1 MSD	UXR0205.D	03/11/2016	21:30

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Lab Sample ID: CCVIS 240-221148/2 Calibration Date: 03/11/2016 11:36

Instrument ID: A3UX17 Calib Start Date: 03/10/2016 09:28

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:20

Lab File ID: UXR0179.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	0.2920	0.2704	0.1000	0.00926	0.0100	-7.4	20.0
Chloromethane	Ave	0.3206	0.3064	0.1000	0.00956	0.0100	-4.4	20.0
Vinyl chloride	Ave	0.3099	0.3024	0.1000	0.00976	0.0100	-2.4	20.0
Butadiene	Ave	0.3046	0.2823		0.00927	0.0100	-7.3	20.0
Bromomethane	Ave	0.1547	0.1521	0.0500	0.00983	0.0100	-1.7	20.0
Chloroethane	Ave	0.1903	0.1845	0.0500	0.00969	0.0100	-3.1	20.0
Dichlorofluoromethane	Ave	0.4220	0.4337		0.0103	0.0100	2.8	20.0
Trichlorofluoromethane	Ave	0.3042	0.3259	0.1000	0.0107	0.0100	7.1	20.0
Ethyl ether	Ave	0.2290	0.2298		0.0100	0.0100	0.3	20.0
Acrolein	Ave	0.0226	0.0212		0.0467	0.0500	-6.5	20.0
1,1-Dichloroethene	Ave	0.2349	0.2358	0.1000	0.0100	0.0100	0.4	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.1808	0.1887	0.0500	0.0104	0.0100	4.3	20.0
Acetone	Lin1		0.0742	0.0500	0.0197	0.0200	-1.7	20.0
Iodomethane	Ave	0.3732	0.3782		0.0101	0.0100	1.3	20.0
Carbon disulfide	Ave	0.7001	0.7198	0.1000	0.0103	0.0100	2.8	20.0
3-Chloro-1-propene	Ave	0.1419	0.1403		0.00988	0.0100	-1.2	20.0
Methyl acetate	Ave	0.1801	0.1719	0.1000	0.0477	0.0500	-4.6	20.0
Methylene Chloride	Lin1		0.2725	0.1000	0.0101	0.0100	0.8	20.0
tert-Butyl alcohol	Ave	0.0166	0.0148		0.0894	0.100	-10.6	20.0
Acrylonitrile	Ave	0.0891	0.0871		0.0977	0.100	-2.3	20.0
Methyl tert-butyl ether	Ave	0.7139	0.7109	0.1000	0.00996	0.0100	-0.4	20.0
trans-1,2-Dichloroethene	Ave	0.2607	0.2630	0.1000	0.0101	0.0100	0.9	20.0
Hexane	Ave	0.0629	0.0649		0.0103	0.0100	3.1	20.0
1,1-Dichloroethane	Ave	0.4861	0.4809	0.1000	0.00989	0.0100	-1.1	20.0
Vinyl acetate	Ave	0.4353	0.4280		0.00983	0.0100	-1.7	20.0
2,2-Dichloropropane	Ave	0.2783	0.2763		0.00993	0.0100	-0.7	20.0
cis-1,2-Dichloroethene	Ave	0.2799	0.2875	0.1000	0.0103	0.0100	2.7	20.0
2-Butanone	Lin1		0.0973	0.0500	0.0198	0.0200	-1.0	20.0
Bromochloromethane	Ave	0.1275	0.1272		0.00998	0.0100	-0.2	20.0
Tetrahydrofuran	Ave	0.0721	0.0645		0.0179	0.0200	-10.6	20.0
Chloroform	Ave	0.4487	0.4456	0.2000	0.00993	0.0100	-0.7	20.0
1,1,1-Trichloroethane	Ave	0.3595	0.3600	0.1000	0.0100	0.0100	0.1	20.0
Cyclohexane	Ave	0.4470	0.4530	0.1000	0.0101	0.0100	1.3	20.0
1,1-Dichloropropene	Ave	0.3643	0.3711		0.0102	0.0100	1.9	20.0
Carbon tetrachloride	Ave	0.2954	0.3157	0.1000	0.0107	0.0100	6.8	20.0
Isobutyl alcohol	Ave	0.0097	0.0085		0.220	0.250	-12.0	20.0
Benzene	Ave	1.089	1.079	0.5000	0.00991	0.0100	-0.9	20.0
1,2-Dichloroethane	Ave	0.3853	0.3775	0.1000	0.00980	0.0100	-2.0	20.0
n-Heptane	Ave	0.0544	0.0588		0.0108	0.0100	8.2	20.0
Trichloroethene	Ave	0.2652	0.2674	0.2000	0.0101	0.0100	0.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Lab Sample ID: CCVIS 240-221148/2 Calibration Date: 03/11/2016 11:36

Instrument ID: A3UX17 Calib Start Date: 03/10/2016 09:28

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:20

Lab File ID: UXR0179.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3832	0.3953	0.1000	0.0103	0.0100	3.1	20.0
1,2-Dichloropropane	Ave	0.2520	0.2567	0.1000	0.0102	0.0100	1.8	20.0
1,4-Dioxane	Ave	0.0024	0.0019		0.158	0.200	-21.1*	20.0
Dibromomethane	Ave	0.1400	0.1423		0.0102	0.0100	1.6	20.0
Bromodichloromethane	Ave	0.3056	0.3081	0.1000	0.0101	0.0100	0.8	20.0
2-Chloroethyl vinyl ether	Ave	0.1474	0.1450		0.0197	0.0200	-1.6	20.0
cis-1,3-Dichloropropene	Ave	0.3778	0.3793	0.1500	0.0100	0.0100	0.4	20.0
4-Methyl-2-pentanone	Ave	0.2158	0.2059	0.0500	0.0191	0.0200	-4.6	20.0
Toluene	Ave	1.566	1.601	0.4000	0.0102	0.0100	2.2	20.0
trans-1,3-Dichloropropene	Lin1		0.4622	0.1000	0.00932	0.0100	-6.8	20.0
Ethyl methacrylate	Ave	0.4155	0.4325		0.0104	0.0100	4.1	20.0
1,1,2-Trichloroethane	Ave	0.2907	0.2981	0.1000	0.0103	0.0100	2.5	20.0
Tetrachloroethene	Ave	0.2885	0.3009	0.2000	0.0104	0.0100	4.3	20.0
1,3-Dichloropropane	Ave	0.5400	0.5487		0.0102	0.0100	1.6	20.0
2-Hexanone	Ave	0.2006	0.2038	0.0500	0.0203	0.0200	1.6	20.0
Dibromochloromethane	Ave	0.2713	0.2959		0.0109	0.0100	9.1	20.0
1,2-Dibromoethane	Ave	0.2829	0.2859		0.0101	0.0100	1.1	20.0
Chlorobenzene	Ave	0.9835	0.998	0.3000	0.0101	0.0100	1.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3093	0.3317		0.0107	0.0100	7.2	20.0
Ethylbenzene	Ave	0.5321	0.5490		0.0103	0.0100	3.2	20.0
m-Xylene & p-Xylene	Ave	0.6516	0.6847		0.0105	0.0100	5.1	20.0
o-Xylene	Ave	0.6509	0.6725		0.0103	0.0100	3.3	20.0
Styrene	Ave	1.075	1.148	0.3000	0.0107	0.0100	6.8	20.0
Bromoform	Lin1		0.1643	0.1000	0.00968	0.0100	-3.2	20.0
Isopropylbenzene	Ave	1.588	1.649	0.1000	0.0104	0.0100	3.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6901	0.6869	0.3000	0.00995	0.0100	-0.5	20.0
Bromobenzene	Ave	0.7963	0.8160		0.0102	0.0100	2.5	20.0
1,2,3-Trichloropropane	Ave	0.2335	0.2402		0.0103	0.0100	2.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2259	0.2292		0.0101	0.0100	1.4	20.0
n-Propylbenzene	Ave	0.8134	0.8430		0.0104	0.0100	3.6	20.0
2-Chlorotoluene	Ave	0.7237	0.7527		0.0104	0.0100	4.0	20.0
1,3,5-Trimethylbenzene	Ave	2.461	2.570		0.0104	0.0100	4.4	20.0
4-Chlorotoluene	Ave	0.7652	0.8082		0.0106	0.0100	5.6	20.0
tert-Butylbenzene	Ave	2.053	2.109		0.0103	0.0100	2.7	20.0
1,2,4-Trimethylbenzene	Ave	2.562	2.689		0.0105	0.0100	5.0	20.0
sec-Butylbenzene	Ave	2.783	2.911		0.0105	0.0100	4.6	20.0
1,3-Dichlorobenzene	Ave	1.466	1.510	0.6000	0.0103	0.0100	3.0	20.0
p-Isopropyltoluene	Ave	2.364	2.520		0.0107	0.0100	6.6	20.0
1,4-Dichlorobenzene	Ave	1.505	1.539	0.5000	0.0102	0.0100	2.2	20.0
n-Butylbenzene	Ave	1.947	2.070		0.0106	0.0100	6.3	20.0
1,2-Dichlorobenzene	Ave	1.422	1.436	0.4000	0.0101	0.0100	1.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-221148/2 Calibration Date: 03/11/2016 11:36
 Instrument ID: A3UX17 Calib Start Date: 03/10/2016 09:28
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:20
 Lab File ID: UXR0179.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1062	0.1050	0.0500	0.00989	0.0100	-1.1	20.0
1,2,4-Trichlorobenzene	Ave	0.8907	0.8267	0.2000	0.00928	0.0100	-7.2	20.0
Hexachlorobutadiene	Lin1		0.3228		0.0100	0.0100	0.2	20.0
Naphthalene	Ave	2.172	1.896		0.00873	0.0100	-12.7	20.0
1,2,3-Trichlorobenzene	Ave	0.8394	0.7037		0.00838	0.0100	-16.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2257	0.2161		0.00958	0.0100	-4.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3209	0.2989		0.00931	0.0100	-6.9	20.0
Toluene-d8 (Surr)	Ave	1.325	1.288		0.00972	0.0100	-2.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5079	0.4810		0.00947	0.0100	-5.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: CCV 240-221148/3 Calibration Date: 03/11/2016 11:59
 Instrument ID: A3UX17 Calib Start Date: 03/10/2016 13:31
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 15:22
 Lab File ID: UXR0180.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0313	0.0287		0.0917	0.100	-8.3	20.0
Diisopropyl ether	Ave	0.2373	0.2324		0.00979	0.0100	-2.1	20.0
2-Chloro-1,3-butadiene	Ave	0.4632	0.4479		0.00967	0.0100	-3.3	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7823	0.7518		0.00961	0.0100	-3.9	20.0
Ethyl acetate	Ave	0.2192	0.2084		0.0190	0.0200	-4.9	20.0
Propionitrile	Ave	0.0330	0.0326		0.0990	0.100	-1.0	20.0
Methacrylonitrile	Ave	0.1607	0.1555		0.0968	0.100	-3.2	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.6506	0.6179		0.00950	0.0100	-5.0	20.0
n-Butanol	Ave	0.0064	0.0057		0.223	0.250	-10.6	20.0
Methyl methacrylate	Ave	0.2225	0.2202		0.0198	0.0200	-1.0	20.0
2-Nitropropane	Ave	0.0551	0.0503		0.0183	0.0200	-8.7	20.0
1-Chlorohexane	Ave	0.4355	0.4220		0.00969	0.0100	-3.1	20.0
Cyclohexanone	Ave	0.0168	0.0140		0.0832	0.100	-16.8	20.0
1,2,3-Trimethylbenzene	Ave	2.686	2.677		0.00997	0.0100	-0.3	20.0
1,3,5-Trichlorobenzene	Ave	0.9603	0.8935		0.00930	0.0100	-7.0	20.0
2-Methylnaphthalene	Ave	1.295	0.7387		0.0114	0.0200	-43.0*	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Lab File ID: BFB971.D BFB Injection Date: 03/14/2016
Instrument ID: A3UX17 BFB Injection Time: 11:01
Analysis Batch No.: 221418

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.6
75	30.0 - 60.0 % of mass 95	53.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.5 (0.6) 1
174	50.0 - 120.00 % of mass 95	84.5
175	5.0 - 9.0 % of mass 174	6.0 (7.1) 1
176	95.0 - 101.0 % of mass 174	80.6 (95.3) 1
177	5.0 - 9.0 % of mass 176	5.4 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-221418/2	UXR0206.D	03/14/2016	11:45
	CCV 240-221418/3	UXR0207.D	03/14/2016	12:08
	LCS 240-221418/4	UXR0208.D	03/14/2016	12:30
	MB 240-221418/6	UXR0210.D	03/14/2016	13:15
MSA-SW45A-030716	240-61849-33	UXR0212.D	03/14/2016	14:00
MSA-SW43B-030716	240-61849-26	UXR0213.D	03/14/2016	14:22
MSA-SW43C-030716	240-61849-27	UXR0214.D	03/14/2016	14:45
MSA-SW43D-030716	240-61849-28	UXR0215.D	03/14/2016	15:07
MSA-SW44A-030716	240-61849-29	UXR0216.D	03/14/2016	15:30
MSA-SW44B-030716	240-61849-30	UXR0217.D	03/14/2016	15:52
MSA-SW44C-030716	240-61849-31	UXR0218.D	03/14/2016	16:14
MSA-SW44D-030716	240-61849-32	UXR0219.D	03/14/2016	16:37
MSA-SW45B-030716	240-61849-34	UXR0220.D	03/14/2016	16:59
MSA-SW45C-030716	240-61849-35	UXR0221.D	03/14/2016	17:21
MSA-SW45D-030716	240-61849-36	UXR0222.D	03/14/2016	17:44
MSA-SW01A-030716	240-61849-37	UXR0223.D	03/14/2016	18:06
MSA-SW01B-030716	240-61849-38	UXR0224.D	03/14/2016	18:28
MSA-SW01C-030716	240-61849-39	UXR0225.D	03/14/2016	18:51
MSA-SW01D-030716	240-61849-40	UXR0226.D	03/14/2016	19:13
TB-030716	240-61849-41	UXR0227.D	03/14/2016	19:35
MSA-SW46A-030716	240-61849-42	UXR0228.D	03/14/2016	19:58
MSA-SW47A-030716	240-61849-43	UXR0229.D	03/14/2016	20:20
MSA-SW48A-030716	240-61849-44	UXR0230.D	03/14/2016	20:42
MSA-SW49A-030716	240-61849-45	UXR0231.D	03/14/2016	21:04
MSA-SW45A-030716 MS	240-61849-33 MS	UXR0232.D	03/14/2016	21:27
MSA-SW45A-030716 MSD	240-61849-33 MSD	UXR0233.D	03/14/2016	21:49

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Lab Sample ID: CCVIS 240-221418/2 Calibration Date: 03/14/2016 11:45

Instrument ID: A3UX17 Calib Start Date: 03/10/2016 09:28

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:20

Lab File ID: UXR0206.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	0.2920	0.3503	0.1000	0.0120	0.0100	20.0	20.0
Chloromethane	Ave	0.3206	0.3550	0.1000	0.0111	0.0100	10.7	20.0
Vinyl chloride	Ave	0.3099	0.3332	0.1000	0.0108	0.0100	7.5	20.0
Butadiene	Ave	0.3046	0.2795		0.00917	0.0100	-8.3	20.0
Bromomethane	Ave	0.1547	0.1026	0.0500	0.00663	0.0100	-33.7*	20.0
Chloroethane	Ave	0.1903	0.1737	0.0500	0.00913	0.0100	-8.7	20.0
Dichlorofluoromethane	Ave	0.4220	0.3856		0.00914	0.0100	-8.6	20.0
Trichlorofluoromethane	Ave	0.3042	0.3464	0.1000	0.0114	0.0100	13.9	20.0
Ethyl ether	Ave	0.2290	0.2341		0.0102	0.0100	2.2	20.0
Acrolein	Ave	0.0226	0.0209		0.0462	0.0500	-7.5	20.0
1,1-Dichloroethene	Ave	0.2349	0.2398	0.1000	0.0102	0.0100	2.1	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.1808	0.1798	0.0500	0.00994	0.0100	-0.6	20.0
Acetone	Lin1		0.0878	0.0500	0.0237	0.0200	18.3	20.0
Iodomethane	Ave	0.3732	0.3490		0.00935	0.0100	-6.5	20.0
Carbon disulfide	Ave	0.7001	0.6934	0.1000	0.00990	0.0100	-1.0	20.0
3-Chloro-1-propene	Ave	0.1419	0.1397		0.00984	0.0100	-1.6	20.0
Methyl acetate	Ave	0.1801	0.1939	0.1000	0.0538	0.0500	7.6	20.0
Methylene Chloride	Lin1		0.2886	0.1000	0.0107	0.0100	7.0	20.0
tert-Butyl alcohol	Ave	0.0166	0.0183		0.110	0.100	10.2	20.0
Acrylonitrile	Ave	0.0891	0.0975		0.109	0.100	9.3	20.0
Methyl tert-butyl ether	Ave	0.7139	0.7351	0.1000	0.0103	0.0100	3.0	20.0
trans-1,2-Dichloroethene	Ave	0.2607	0.2595	0.1000	0.00995	0.0100	-0.5	20.0
Hexane	Ave	0.0629	0.0600		0.00954	0.0100	-4.6	20.0
1,1-Dichloroethane	Ave	0.4861	0.4648	0.1000	0.00956	0.0100	-4.4	20.0
Vinyl acetate	Ave	0.4353	0.4651		0.0107	0.0100	6.8	20.0
2,2-Dichloropropane	Ave	0.2783	0.2378		0.00854	0.0100	-14.6	20.0
2-Butanone	Lin1		0.1187	0.0500	0.0243	0.0200	21.5*	20.0
cis-1,2-Dichloroethene	Ave	0.2799	0.2807	0.1000	0.0100	0.0100	0.3	20.0
Bromochloromethane	Ave	0.1275	0.1309		0.0103	0.0100	2.7	20.0
Tetrahydrofuran	Ave	0.0721	0.0795		0.0220	0.0200	10.2	20.0
Chloroform	Ave	0.4487	0.4458	0.2000	0.00993	0.0100	-0.7	20.0
1,1,1-Trichloroethane	Ave	0.3595	0.3309	0.1000	0.00920	0.0100	-8.0	20.0
Cyclohexane	Ave	0.4470	0.4142	0.1000	0.00926	0.0100	-7.4	20.0
1,1-Dichloropropene	Ave	0.3643	0.3579		0.00983	0.0100	-1.7	20.0
Carbon tetrachloride	Ave	0.2954	0.2948	0.1000	0.00998	0.0100	-0.2	20.0
Isobutyl alcohol	Ave	0.0097	0.0108		0.278	0.250	11.1	20.0
Benzene	Ave	1.089	1.066	0.5000	0.00979	0.0100	-2.1	20.0
1,2-Dichloroethane	Ave	0.3853	0.3860	0.1000	0.0100	0.0100	0.2	20.0
n-Heptane	Ave	0.0544	0.0515		0.00948	0.0100	-5.2	20.0
Trichloroethene	Ave	0.2652	0.2703	0.2000	0.0102	0.0100	1.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Lab Sample ID: CCVIS 240-221418/2 Calibration Date: 03/14/2016 11:45

Instrument ID: A3UX17 Calib Start Date: 03/10/2016 09:28

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:20

Lab File ID: UXR0206.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3832	0.3628	0.1000	0.00947	0.0100	-5.3	20.0
1,2-Dichloropropane	Ave	0.2520	0.2485	0.1000	0.00986	0.0100	-1.4	20.0
1,4-Dioxane	Ave	0.0024	0.0026		0.214	0.200	6.9	20.0
Dibromomethane	Ave	0.1400	0.1478		0.0106	0.0100	5.5	20.0
Bromodichloromethane	Ave	0.3056	0.3075	0.1000	0.0101	0.0100	0.6	20.0
2-Chloroethyl vinyl ether	Ave	0.1474	0.1540		0.0209	0.0200	4.5	20.0
cis-1,3-Dichloropropene	Ave	0.3778	0.3679	0.1500	0.00974	0.0100	-2.6	20.0
4-Methyl-2-pentanone	Ave	0.2158	0.2386	0.0500	0.0221	0.0200	10.6	20.0
Toluene	Ave	1.566	1.585	0.4000	0.0101	0.0100	1.2	20.0
trans-1,3-Dichloropropene	Lin1		0.4593	0.1000	0.00927	0.0100	-7.3	20.0
Ethyl methacrylate	Ave	0.4155	0.4427		0.0107	0.0100	6.5	20.0
1,1,2-Trichloroethane	Ave	0.2907	0.3011	0.1000	0.0104	0.0100	3.6	20.0
Tetrachloroethene	Ave	0.2885	0.2901	0.2000	0.0101	0.0100	0.6	20.0
1,3-Dichloropropane	Ave	0.5400	0.5497		0.0102	0.0100	1.8	20.0
2-Hexanone	Ave	0.2006	0.2398	0.0500	0.0239	0.0200	19.5	20.0
Dibromochloromethane	Ave	0.2713	0.2923		0.0108	0.0100	7.8	20.0
1,2-Dibromoethane	Ave	0.2829	0.3014		0.0107	0.0100	6.5	20.0
Chlorobenzene	Ave	0.9835	0.9752	0.3000	0.00992	0.0100	-0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3093	0.3262		0.0105	0.0100	5.5	20.0
Ethylbenzene	Ave	0.5321	0.5367		0.0101	0.0100	0.9	20.0
m-Xylene & p-Xylene	Ave	0.6516	0.6497		0.00997	0.0100	-0.3	20.0
o-Xylene	Ave	0.6509	0.6547		0.0101	0.0100	0.6	20.0
Styrene	Ave	1.075	1.102	0.3000	0.0102	0.0100	2.5	20.0
Bromoform	Lin1		0.1726	0.1000	0.0102	0.0100	1.5	20.0
Isopropylbenzene	Ave	1.588	1.591	0.1000	0.0100	0.0100	0.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6901	0.7607	0.3000	0.0110	0.0100	10.2	20.0
Bromobenzene	Ave	0.7963	0.8014		0.0101	0.0100	0.7	20.0
1,2,3-Trichloropropane	Ave	0.2335	0.2532		0.0108	0.0100	8.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2259	0.2585		0.0114	0.0100	14.4	20.0
n-Propylbenzene	Ave	0.8134	0.8220		0.0101	0.0100	1.1	20.0
2-Chlorotoluene	Ave	0.7237	0.7185		0.00993	0.0100	-0.7	20.0
1,3,5-Trimethylbenzene	Ave	2.461	2.471		0.0100	0.0100	0.4	20.0
4-Chlorotoluene	Ave	0.7652	0.7765		0.0101	0.0100	1.5	20.0
tert-Butylbenzene	Ave	2.053	2.108		0.0103	0.0100	2.7	20.0
1,2,4-Trimethylbenzene	Ave	2.562	2.582		0.0101	0.0100	0.8	20.0
sec-Butylbenzene	Ave	2.783	2.720		0.00977	0.0100	-2.3	20.0
1,3-Dichlorobenzene	Ave	1.466	1.460	0.6000	0.00996	0.0100	-0.4	20.0
p-Isopropyltoluene	Ave	2.364	2.381		0.0101	0.0100	0.7	20.0
1,4-Dichlorobenzene	Ave	1.505	1.507	0.5000	0.0100	0.0100	0.1	20.0
n-Butylbenzene	Ave	1.947	1.915		0.00983	0.0100	-1.7	20.0
1,2-Dichlorobenzene	Ave	1.422	1.401	0.4000	0.00985	0.0100	-1.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-221418/2 Calibration Date: 03/14/2016 11:45
 Instrument ID: A3UX17 Calib Start Date: 03/10/2016 09:28
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 11:20
 Lab File ID: UXR0206.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1062	0.1167	0.0500	0.0110	0.0100	9.9	20.0
1,2,4-Trichlorobenzene	Ave	0.8907	0.7749	0.2000	0.00870	0.0100	-13.0	20.0
Hexachlorobutadiene	Lin1		0.2749		0.00847	0.0100	-15.3	20.0
Naphthalene	Ave	2.172	2.063		0.00950	0.0100	-5.0	20.0
1,2,3-Trichlorobenzene	Ave	0.8394	0.6976		0.00831	0.0100	-16.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2257	0.2123		0.00941	0.0100	-5.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3209	0.3061		0.00954	0.0100	-4.6	20.0
Toluene-d8 (Surr)	Ave	1.325	1.292		0.00975	0.0100	-2.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5079	0.4877		0.00960	0.0100	-4.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: CCV 240-221418/3 Calibration Date: 03/14/2016 12:08
 Instrument ID: A3UX17 Calib Start Date: 03/10/2016 13:31
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/10/2016 15:22
 Lab File ID: UXR0207.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0313	0.0301		0.0960	0.100	-4.0	20.0
Diisopropyl ether	Ave	0.2373	0.2255		0.00950	0.0100	-5.0	20.0
2-Chloro-1,3-butadiene	Ave	0.4632	0.4353		0.00940	0.0100	-6.0	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7823	0.7258		0.00928	0.0100	-7.2	20.0
Ethyl acetate	Ave	0.2192	0.2396		0.0219	0.0200	9.3	20.0
Propionitrile	Ave	0.0330	0.0374		0.114	0.100	13.5	20.0
Methacrylonitrile	Ave	0.1607	0.1736		0.108	0.100	8.0	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.6506	0.6301		0.00968	0.0100	-3.2	20.0
n-Butanol	Ave	0.0064	0.0077		0.301	0.250	20.3*	20.0
Methyl methacrylate	Ave	0.2225	0.2425		0.0218	0.0200	9.0	20.0
2-Nitropropane	Ave	0.0551	0.0586		0.0213	0.0200	6.4	20.0
1-Chlorohexane	Ave	0.4355	0.4147		0.00952	0.0100	-4.8	20.0
Cyclohexanone	Ave	0.0168	0.0178		0.106	0.100	6.0	20.0
1,2,3-Trimethylbenzene	Ave	2.686	2.583		0.00962	0.0100	-3.8	20.0
1,3,5-Trichlorobenzene	Ave	0.9603	0.8337		0.00868	0.0100	-13.2	20.0
2-Methylnaphthalene	Ave	1.295	0.8519		0.0132	0.0200	-34.2*	20.0

COVER PAGE
METALS

Lab Name: TestAmerica Canton

Job Number: 240-61849-1

SDG No.: _____

Project: MSA Surface Water

Client Sample ID

MSA-SW37A-030716

MSA-SW37B-030716

MSA-SW37C-030716

MSA-SW37D-030716

MSA-SW38A-030716

MSA-SW38B-030716

MSA-SW38C-030716

MSA-SW38D-030716

MSA-SW39A-030716

MSA-SW39B-030716

MSA-SW39C-030716

MSA-SW39D-030716

MSA-SW40A-030716

MSA-SW40B-030716

MSA-SW40C-030716

MSA-SW40D-030716

MSA-SW41A-030716

MSA-SW41B-030716

MSA-SW41C-030716

MSA-SW41D-030716

MSA-SW42A-030716

MSA-SW42B-030716

MSA-SW42C-030716

MSA-SW42D-030716

MSA-SW43A-030716

MSA-SW43B-030716

MSA-SW43C-030716

MSA-SW43D-030716

MSA-SW44A-030716

MSA-SW44B-030716

MSA-SW44C-030716

MSA-SW44D-030716

MSA-SW45A-030716

MSA-SW45B-030716

MSA-SW45C-030716

MSA-SW45D-030716

Lab Sample ID

240-61849-1

240-61849-2

240-61849-3

240-61849-4

240-61849-5

240-61849-6

240-61849-7

240-61849-8

240-61849-9

240-61849-10

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240-61849-32

240-61849-33

240-61849-34

240-61849-35

240-61849-36

Comments:

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton

Job Number: 240-61849-1

SDG Number: _____

Matrix: Water

Instrument ID: I10

Method: 6020

MDL Date: 09/15/2014 17:02

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Antimony	121.00	2	0.16
Arsenic	75.00	5	0.49
Barium	137.00	5	1.1
Beryllium	9.00	1	0.053
Cadmium	111.00	1	0.061
Chromium	52.00	2	0.6
Cobalt	59.00	1	0.021
Copper	65.00	2	0.75
Lead	208.00	1	0.11
Molybdenum	95.00	10	0.23
Nickel	60.00	2	0.23
Selenium	78.00	5	0.25
Silver	107.00	1	0.02
Thallium	205.00	1	0.074
Tungsten	182.00	10	0.5
Vanadium	51.00	5	0.23
Zinc	66.00	20	7.3

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-61849-1
SDG Number: _____
Matrix: Water Instrument ID: I10
Method: 6020 XMDL Date: 09/15/2014 17:03

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony	121.00	2	0.16
Arsenic	75.00	5	0.49
Barium	137.00	5	1.1
Beryllium	9.00	1	0.053
Cadmium	111.00	1	0.061
Chromium	52.00	2	0.6
Cobalt	59.00	1	0.021
Copper	65.00	2	0.75
Lead	208.00	1	0.11
Molybdenum	95.00	10	0.23
Nickel	60.00	2	0.23
Selenium	78.00	5	0.25
Silver	107.00	1	0.02
Thallium	205.00	1	0.074
Tungsten	182.00	10	0.5
Vanadium	51.00	5	0.23
Zinc	66.00	20	7.3

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-61849-1
SDG Number: _____
Matrix: Water Instrument ID: H4
Method: 7470A MDL Date: 12/03/2014 00:00
Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury	253.7	0.2	0.09

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-61849-1
SDG Number: _____
Matrix: Water Instrument ID: H4
Method: 7470A XMDL Date: 09/17/2014 14:07

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.09

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton

Job No: 240-61849-1

SDG No.: _____

Instrument ID: I10

Date: 10/14/2015 11:31

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Antimony		200	6020
Arsenic		10000	6020
Barium		10000	6020
Beryllium		10000	6020
Cadmium		4000	6020
Chromium		10000	6020
Cobalt		10000	6020
Copper		10000	6020
Lead		4000	6020
Molybdenum		2000	6020
Nickel		10000	6020
Selenium		10000	6020
Silver		300	6020
Thallium		5000	6020
Vanadium		10000	6020
Zinc		10000	6020
Tungsten		2500	6020

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton

Job No: 240-61849-1

SDG No.: _____

Instrument ID: H4

Date: 12/10/2013 15:55

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		10	7470A

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: I10 Method: 6020

Start Date: 03/16/2016 11:17 End Date: 03/17/2016 02:01

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A s	B a	B e	C a	C d	C o	C r	C u	M g	M o	N i	P b	S b	S e	T l	V	W	Z n	
ZZZZZZZ			11:17																				
ICIS 240-221854/2	1		11:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
STD1 240-221854/3 IC	1		11:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
STD2 240-221854/4 IC	1		11:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
STD3 240-221854/5 IC	1		11:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
STD4 240-221854/6 IC	1		11:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICV 240-221854/7	1		11:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICB 240-221854/8	1		11:46	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X		
CRI 240-221854/9	1		11:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
ICSA 240-221854/10			11:54																				
ICSAB 240-221854/11			11:58																				
CCV 240-221854/12			12:02																				
CCB 240-221854/13			12:06																				
ZZZZZZZ			12:11																				
ZZZZZZZ			12:15																				
ZZZZZZZ			12:19																				
ZZZZZZZ			12:23																				
ZZZZZZZ			12:27																				
ZZZZZZZ			12:31																				
ZZZZZZZ			12:35																				
ZZZZZZZ			12:39																				
ZZZZZZZ			12:43																				
ZZZZZZZ			12:47																				
CCV 240-221854/24			12:51																				
CCB 240-221854/25			12:55																				
CRI 240-221854/26			12:59																				
CCV 240-221854/27			13:15																				
CCB 240-221854/28			13:19																				
ZZZZZZZ			13:23																				
ZZZZZZZ			13:27																				
ZZZZZZZ			13:31																				
ZZZZZZZ			13:35																				
ZZZZZZZ			13:39																				
ZZZZZZZ			13:43																				
ZZZZZZZ			13:47																				
ZZZZZZZ			13:51																				
ZZZZZZZ			13:55																				
ZZZZZZZ			13:59																				
CCV 240-221854/39			14:03																				
CCB 240-221854/40			14:07																				
ZZZZZZZ			14:11																				
ZZZZZZZ			14:15																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: I10 Method: 6020

Start Date: 03/16/2016 11:17 End Date: 03/17/2016 02:01

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A g	A s	B a	B e	C a	C d	C o	C r	C u	M g	M o	N i	P b	S b	S e	T l	V	W
ZZZZZZZ			14:19																		
ZZZZZZZ			14:23																		
ZZZZZZZ			14:27																		
ZZZZZZZ			14:32																		
ZZZZZZZ			14:36																		
ZZZZZZZ			14:40																		
ZZZZZZZ			14:44																		
ZZZZZZZ			14:48																		
CCV 240-221854/51			14:52																		
CCB 240-221854/52			14:56																		
ZZZZZZZ			15:00																		
ZZZZZZZ			15:04																		
ZZZZZZZ			15:09																		
ZZZZZZZ			15:13																		
ZZZZZZZ			15:17																		
ZZZZZZZ			15:21																		
CCV 240-221854/59			15:25																		
CCB 240-221854/60			15:29																		
ZZZZZZZ			15:33																		
ZZZZZZZ			15:37																		
ZZZZZZZ			15:41																		
ZZZZZZZ			15:45																		
ZZZZZZZ			15:49																		
ZZZZZZZ			15:53																		
ZZZZZZZ			15:57																		
ZZZZZZZ			16:01																		
ZZZZZZZ			16:05																		
ZZZZZZZ			16:09																		
CCV 240-221854/71			16:13																		
CCB 240-221854/72			16:17																		
ZZZZZZZ			16:21																		
ZZZZZZZ			16:25																		
ZZZZZZZ			16:30																		
ZZZZZZZ			16:34																		
ZZZZZZZ			16:38																		
ZZZZZZZ			16:42																		
CCV 240-221854/79			16:46																		
CCB 240-221854/80			16:50																		
ZZZZZZZ			16:54																		
ZZZZZZZ			16:58																		
ZZZZZZZ			17:02																		
ZZZZZZZ			17:06																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: I10 Method: 6020

Start Date: 03/16/2016 11:17 End Date: 03/17/2016 02:01

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A s	B a	B e	C a	C d	C o	C r	C u	M g	M o	N i	P b	S b	S e	T l	V	W	Z n
ZZZZZZ			17:10																			
ZZZZZZ			17:14																			
CCV 240-221854/87			17:18																			
CCB 240-221854/88			17:23																			
ZZZZZZ			17:27																			
ZZZZZZ			17:31																			
ZZZZZZ			17:35																			
ZZZZZZ			17:39																			
ZZZZZZ			17:43																			
ZZZZZZ			17:47																			
ZZZZZZ			17:51																			
ZZZZZZ			17:55																			
ZZZZZZ			17:59																			
ZZZZZZ			18:03																			
CCV 240-221854/99			18:08																			
CCB 240-221854/100			18:12																			
ZZZZZZ			18:16																			
CCV 240-221854/102			18:20																			
CCB 240-221854/103			18:24																			
ZZZZZZ			18:28																			
ZZZZZZ			18:32																			
ZZZZZZ			18:36																			
ZZZZZZ			18:40																			
ZZZZZZ			18:44																			
ZZZZZZ			18:48																			
ZZZZZZ			18:52																			
ZZZZZZ			18:56																			
ZZZZZZ			19:00																			
ZZZZZZ			19:04																			
CCV 240-221854/114			19:08																			
CCB 240-221854/115			19:12																			
ZZZZZZ			19:16																			
ZZZZZZ			19:20																			
ZZZZZZ			19:24																			
ZZZZZZ			19:28																			
ZZZZZZ			19:32																			
ZZZZZZ			19:36																			
ZZZZZZ			19:40																			
ZZZZZZ			19:45																			
ZZZZZZ			19:49																			
ZZZZZZ			19:53																			
CCV 240-221854/126			19:57																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: I10 Method: 6020

Start Date: 03/16/2016 11:17 End Date: 03/17/2016 02:01

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A s	B a	B e	C a	C d	C o	C r	C u	M g	M o	N i	P b	S b	S e	T l	V	W	Z n
CCB 240-221854/127			20:01																			
ZZZZZZ			20:05																			
ZZZZZZ			20:09																			
ZZZZZZ			20:13																			
ZZZZZZ			20:17																			
ZZZZZZ			20:21																			
ZZZZZZ			20:25																			
ZZZZZZ			20:29																			
ZZZZZZ			20:33																			
ZZZZZZ			20:37																			
ZZZZZZ			20:41																			
CCV 240-221854/138			20:45																			
CCB 240-221854/139			20:49																			
ZZZZZZ			20:53																			
CCV 240-221854/141			20:58																			
CCB 240-221854/142			21:02																			
CRI 240-221854/143			21:06																			
ZZZZZZ			21:10																			
ZZZZZZ			21:14																			
ZZZZZZ			21:18																			
ZZZZZZ			21:22																			
ZZZZZZ			21:26																			
ICSA 240-221854/149	1		21:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICSAB 240-221854/150	1		21:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV 240-221854/151			21:38																			
CCB 240-221854/152			21:43																			
ZZZZZZ			21:47																			
ZZZZZZ			21:51																			
ZZZZZZ			21:55																			
ZZZZZZ			21:59																			
ZZZZZZ			22:03																			
ZZZZZZ			22:07																			
ZZZZZZ			22:11																			
ZZZZZZ			22:15																			
ZZZZZZ			22:19																			
ZZZZZZ			22:23																			
CCV 240-221854/163			22:28																			
CCB 240-221854/164			22:32																			
ZZZZZZ			22:36																			
ZZZZZZ			22:40																			
ZZZZZZ			22:44																			
ZZZZZZ			22:48																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: I10 Method: 6020

Start Date: 03/16/2016 11:17 End Date: 03/17/2016 02:01

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A s	B a	B e	C a	C d	C o	C r	C u	M g	M o	N i	P b	S b	S e	T l	V	W	Z n
ZZZZZZ			22:52																			
ZZZZZZ			22:56																			
ZZZZZZ			23:00																			
ZZZZZZ			23:04																			
ZZZZZZ			23:08																			
ZZZZZZ			23:12																			
CCV 240-221854/175	1		23:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 240-221854/176	1		23:20	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
ZZZZZZ			23:24																			
ZZZZZZ			23:29																			
ZZZZZZ			23:33																			
ZZZZZZ			23:37																			
ZZZZZZ			23:41																			
MB 240-220940/1-A	1	R	23:45	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
LCS 240-220940/2-A	1	R	23:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-61849-1	1	D	23:53	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-1 SD	5	D	23:57	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
ZZZZZZ			00:01																			
CCV 240-221854/187	1		00:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 240-221854/188	1		00:10	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-1 MS	1	D	00:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-61849-1 MSD	1	D	00:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-61849-2	1	D	00:22	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-3	1	D	00:26	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-4	1	D	00:30	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-5	1	D	00:34	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-6	1	D	00:38	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-7	1	D	00:43	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-8	1	D	00:47	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-9	1	D	00:51	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
CCV 240-221854/199	1		00:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 240-221854/200	1		00:59	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-10	1	D	01:03	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-11	1	D	01:08	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-12	1	D	01:12	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-13	1	D	01:16	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-14	1	D	01:20	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-15	1	D	01:24	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-16	1	D	01:28	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-17	1	D	01:32	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-18	1	D	01:37	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
240-61849-19	1	D	01:41	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: I10 Method: 6020

Start Date: 03/16/2016 11:17 End Date: 03/17/2016 02:01

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A s	B a	B e	C a	C d	C o	C r	C u	M g	M o	N i	P b	S b	S e	T l	V	W	Z n	
CCV 240-221854/211	1		01:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 240-221854/212	1		01:49	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	
240-61849-20	1	D	01:53	X	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	
CCV 240-221854/214	1		01:57	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 240-221854/215	1		02:01	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	

Prep Types

D = Dissolved

R = Total Recoverable

No target analytes
associated with Li-6

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

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG No.: _____

ICP-MS Instrument ID: I10

Start Date: 03/16/2016 End Date: 03/17/2016

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
ICIS 240-221854/2	11:22	100		100		100		100		100	
STD1 240-221854/3 I	11:26	98		100		98		99		99	
STD2 240-221854/4 I	11:30	95		99		98		96		97	
STD3 240-221854/5 I	11:34	100		104		105		96		99	
STD4 240-221854/6 I	11:38	98		106		103		103		104	
ICV 240-221854/7	11:42	102		107		104		100		102	
ICB 240-221854/8	11:46	104		108		106		103		105	
CRI 240-221854/9	11:50	109		113		111		106		108	
ICSA 240-221854/149	21:30	88		90		93		76		83	
ICSAB 240-221854/15	21:34	86		91		95		77		84	
CCV 240-221854/175	23:16	91		86		95		80		83	
CCB 240-221854/176	23:20	71		89		74		82		85	
MB 240-220940/1-A	23:45	86		87		88		82		85	
LCS 240-220940/2-A	23:49	87		81		92		76		80	
240-61849-1	23:53	59		75		65		66		72	
240-61849-1 SD	23:57	94		91		98		77		84	
CCV 240-221854/187	00:05	81		86		86		78		83	
CCB 240-221854/188	00:10	71		71		74		74		78	
240-61849-1 MS	00:14	60		75		69		67		71	
240-61849-1 MSD	00:18	61		69		73		65		69	
240-61849-2	00:22	67		71		74		66		72	
240-61849-3	00:26	59		72		68		67		73	
240-61849-4	00:30	79		76		86		68		74	
240-61849-5	00:34	70		69		80		67		72	
240-61849-6	00:38	69		67		77		65		71	
240-61849-7	00:43	63		89		72		71		79	
240-61849-8	00:47	63		92		71		72		80	
240-61849-9	00:51	83		73		91		67		73	
CCV 240-221854/199	00:55	82		78		90		73		77	
CCB 240-221854/200	00:59	80		84		84		77		81	
240-61849-10	01:03	75		79		82		68		75	
240-61849-11	01:08	73		76		81		68		74	
240-61849-12	01:12	78		77		85		68		75	
240-61849-13	01:16	79		83		88		70		76	
240-61849-14	01:20	80		75		88		67		73	
240-61849-15	01:24	76		81		85		69		76	
240-61849-16	01:28	77		76		85		67		73	
240-61849-17	01:32	63		83		72		70		76	
240-61849-18	01:37	61		78		71		68		74	
240-61849-19	01:41	84		80		93		69		75	
CCV 240-221854/211	01:45	82		82		91		74		79	
CCB 240-221854/212	01:49	88		83		93		76		81	

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

ICP-MS Instrument ID: I10 Start Date: 03/16/2016 End Date: 03/17/2016

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc/1	Q	Element Sc/2	Q	Element Rh	Q	Element In	Q
240-61849-20	01:53	57		65		65		63		69	
CCV 240-221854/214	01:57	57		70		65		69		74	
CCB 240-221854/215	02:01	65		69		73		72		76	

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

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG No.: _____

ICP-MS Instrument ID: I10

Start Date: 03/16/2016 End Date: 03/17/2016

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
ICIS 240-221854/2	11:22	100		100		100					
STD1 240-221854/3 I	11:26	101		99		101					
STD2 240-221854/4 I	11:30	100		99		97					
STD3 240-221854/5 I	11:34	103		99		96					
STD4 240-221854/6 I	11:38	104		103		104					
ICV 240-221854/7	11:42	104		103		100					
ICB 240-221854/8	11:46	104		104		103					
CRI 240-221854/9	11:50	105		104		105					
ICSA 240-221854/149	21:30	82		79		80					
ICSAB 240-221854/15	21:34	83		79		80					
CCV 240-221854/175	23:16	81		83		84					
CCB 240-221854/176	23:20	84		81		85					
MB 240-220940/1-A	23:45	84		82		89					
LCS 240-220940/2-A	23:49	80		77		83					
240-61849-1	23:53	71		71		71					
240-61849-1 SD	23:57	84		80		80					
CCV 240-221854/187	00:05	81		80		82					
CCB 240-221854/188	00:10	76		74		83					
240-61849-1 MS	00:14	72		72		71					
240-61849-1 MSD	00:18	71		71		70					
240-61849-2	00:22	72		71		72					
240-61849-3	00:26	74		75		74					
240-61849-4	00:30	74		73		73					
240-61849-5	00:34	72		71		73					
240-61849-6	00:38	71		70		72					
240-61849-7	00:43	74		73		72					
240-61849-8	00:47	75		74		72					
240-61849-9	00:51	72		72		72					
CCV 240-221854/199	00:55	77		74		79					
CCB 240-221854/200	00:59	76		75		81					
240-61849-10	01:03	73		73		73					
240-61849-11	01:08	73		72		73					
240-61849-12	01:12	73		73		73					
240-61849-13	01:16	73		73		72					
240-61849-14	01:20	72		71		71					
240-61849-15	01:24	72		72		71					
240-61849-16	01:28	72		71		70					
240-61849-17	01:32	73		72		72					
240-61849-18	01:37	72		71		71					
240-61849-19	01:41	73		72		71					
CCV 240-221854/211	01:45	75		74		79					
CCB 240-221854/212	01:49	76		75		82					

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

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

ICP-MS Instrument ID: I10 Start Date: 03/16/2016 End Date: 03/17/2016

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
240-61849-20	01:53	69		69		70					
CCV 240-221854/214	01:57	74		74		79					
CCB 240-221854/215	02:01	74		74		82					

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG No.: _____

ICV Source: MTMSICVW_00062

Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00156

Analyte	ICV 240-221854/7 03/16/2016 11:42				CCV 240-221854/175 03/16/2016 23:16				CCV 240-221854/187 03/17/2016 00:05			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	40.5		40.0	101	48.5		50.0	97	51.4		50.0	103
Arsenic	40.6		40.0	101	47.4		50.0	95	50.4		50.0	101
Barium	39.1		40.0	98	46.6		50.0	93	48.4		50.0	97
Beryllium	39.6		40.0	99	51.3		50.0	103	49.3		50.0	99
Cadmium	40.2		40.0	101	48.3		50.0	97	50.8		50.0	102
Calcium	19600		20000	98	23500		25000	94	24400		25000	98
Chromium	39.4		40.0	99	47.5		50.0	95	50.5		50.0	101
Cobalt	39.7		40.0	99	48.4		50.0	97	50.8		50.0	102
Copper	40.8		40.0	102	48.4		50.0	97	51.0		50.0	102
Lead	39.3		40.0	98	49.1		50.0	98	51.6		50.0	103
Magnesium	19800		20000	99	22700		25000	91	23700		25000	95
Molybdenum	41.0		40.0	103	51.2		50.0	102	54.5		50.0	109
Nickel	39.7		40.0	99	47.3		50.0	95	49.2		50.0	98
Selenium	40.0		40.0	100	45.7		50.0	91	48.9		50.0	98
Silver	40.0		40.0	100	49.4		50.0	99	52.8		50.0	106
Thallium	39.2		40.0	98	48.6		50.0	97	50.9		50.0	102
Tungsten	39.5		40.0	99	51.7		50.0	103	53.0		50.0	106
Vanadium	39.7		40.0	99	47.6		50.0	95	49.8		50.0	100
Zinc	40.4		40.0	101	49.1		50.0	98	51.8		50.0	104

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

ICV Source: MTMSICVW_00062 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00156

Analyte	CCV 240-221854/199 03/17/2016 00:55				CCV 240-221854/211 03/17/2016 01:45				CCV 240-221854/214 03/17/2016 01:57			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	51.6		50.0	103	51.2		50.0	102	51.6		50.0	103
Arsenic	49.1		50.0	98	49.8		50.0	100	47.5		50.0	95
Barium	48.1		50.0	96	48.6		50.0	97	49.3		50.0	99
Beryllium	49.0		50.0	98	48.9		50.0	98				
Cadmium	49.9		50.0	100	50.8		50.0	102	50.7		50.0	101
Calcium	24500		25000	98	24800		25000	99	24300		25000	97
Chromium	49.9		50.0	100	49.7		50.0	99	50.7		50.0	101
Cobalt	50.8		50.0	102	50.3		50.0	101	51.8		50.0	104
Copper	51.8		50.0	104	51.7		50.0	103	53.5		50.0	107
Lead	53.3		50.0	107	53.7		50.0	107	54.0		50.0	108
Magnesium	23000		25000	92	23500		25000	94	22700		25000	91
Molybdenum	53.7		50.0	107	54.6		50.0	109	53.9		50.0	108
Nickel	50.1		50.0	100	49.6		50.0	99	50.9		50.0	102
Selenium	48.4		50.0	97	48.9		50.0	98	46.8		50.0	94
Silver	52.2		50.0	104	53.0		50.0	106	52.6		50.0	105
Thallium	52.8		50.0	106	53.6		50.0	107	53.7		50.0	107
Tungsten	54.1		50.0	108	54.8		50.0	110	56.5		50.0	113
Vanadium	49.3		50.0	99	49.1		50.0	98	50.4		50.0	101
Zinc	52.7		50.0	105	51.6		50.0	103	53.6		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.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Method: 6020 Instrument ID: I10
 Lab Sample ID: CRI 240-221854/9 Concentration Units: ug/L
 CRQL Check Standard Source: MTMSCRI6020AW_00036

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	2.00	2.03		101	50-150
Arsenic	5.00	5.04		101	50-150
Barium	5.00	4.87	J	97	50-150
Beryllium	1.00	0.998	J	100	50-150
Cadmium	1.00	1.00		100	50-150
Chromium	2.00	2.06		103	50-150
Cobalt	1.00	1.03		103	50-150
Copper	2.00	1.95	J	97	50-150
Lead	1.00	1.01		101	50-150
Molybdenum	5.00	5.29	J	106	50-150
Nickel	2.00	1.77	J	89	50-150
Selenium	5.00	5.40		108	50-150
Silver	1.00	0.999	J	100	50-150
Thallium	1.00	0.994	J	99	50-150
Vanadium	5.00	4.71	J	94	50-150
Zinc	20.0	20.1		100	50-150
Calcium	1000	989	J	99	50-150
Magnesium	1000	988	J	99	50-150
Tungsten	10.0	10.2		102	50-150

Lab Sample ID: CRI 240-222146/9 Concentration Units: ug/L
 CRQL Check Standard Source: MTMSCRI6020AW_00036

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	2.00	2.14		107	50-150
Arsenic	5.00	4.77	J	95	50-150
Barium	5.00	4.92	J	98	50-150
Beryllium	1.00	0.767	J	77	50-150
Cadmium	1.00	0.970	J	97	50-150
Chromium	2.00	2.14		107	50-150
Cobalt	1.00	1.04		104	50-150
Copper	2.00	2.13		106	50-150
Lead	1.00	1.03		103	50-150
Molybdenum	5.00	5.04	J	101	50-150
Nickel	2.00	1.89	J	94	50-150

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Method: 6020 Instrument ID: I10
 Lab Sample ID: CRI 240-222146/9 Concentration Units: ug/L
 CRQL Check Standard Source: MTMSCRI6020AW_00036

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Selenium	5.00	4.64	J	93	50-150
Silver	1.00	0.994	J	99	50-150
Thallium	1.00	1.00		100	50-150
Vanadium	5.00	5.22		104	50-150
Zinc	20.0	19.2	J	96	50-150
Calcium	1000	959	J	96	50-150
Magnesium	1000	1000		100	50-150
Tungsten	10.0	10.1		101	50-150

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

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-221854/8 03/16/2016 11:46		CCB 240-221854/176 03/16/2016 23:20		CCB 240-221854/188 03/17/2016 00:10		CCB 240-221854/200 03/17/2016 00:59	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Arsenic	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Barium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Beryllium	1.0	0.0570	J	0.466	J	0.725	J	0.500	J
Cadmium	1.0	1.0	U	0.0810	J	0.109	J	0.0710	J
Calcium	1000	1000	U	1000	U	1000	U	1000	U
Chromium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Cobalt	1.0	1.0	U	0.100	J	0.138	J	0.0610	J
Copper	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Lead	1.0	1.0	U	1.0	U	0.117	J	1.0	U
Magnesium	1000	1000	U	1000	U	1000	U	1000	U
Molybdenum	10	10	U	10	U	10	U	10	U
Nickel	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Selenium	5.0	5.0	U	0.359	J	0.307	J	0.353	J
Silver	1.0	1.0	U	0.0530	J	0.0490	J	0.0440	J
Thallium	1.0	1.0	U	0.113	J	0.136	J	0.100	J
Tungsten	10	10	U	10	U	10	U	10	U
Vanadium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Zinc	20	20	U	20	U	20	U	20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 240-221854/212 03/17/2016 01:49		CCB 240-221854/215 03/17/2016 02:01					
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	2.0	U	2.0	U				
Arsenic	5.0	5.0	U	5.0	U				
Barium	5.0	5.0	U	5.0	U				
Beryllium	1.0	0.299	J	0.269	J				
Cadmium	1.0	0.0680	J	0.0640	J				
Calcium	1000	1000	U	1000	U				
Chromium	2.0	2.0	U	2.0	U				
Cobalt	1.0	0.0480	J	0.0580	J				
Copper	2.0	2.0	U	2.0	U				
Lead	1.0	1.0	U	1.0	U				
Magnesium	1000	1000	U	1000	U				
Molybdenum	10	10	U	10	U				
Nickel	2.0	2.0	U	2.0	U				
Selenium	5.0	0.536	J	5.0	U				
Silver	1.0	0.0520	J	0.0440	J				
Thallium	1.0	0.0880	J	0.108	J				
Tungsten	10	10	U	10	U				
Vanadium	5.0	5.0	U	5.0	U				
Zinc	20	20	U	20	U				

Italicized analytes were not requested for this sequence.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: ICSA 240-221854/149 Instrument ID: I10
 Lab File ID: 149ICSA.d ICS Source: MTMSICSAW_00066
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		0.0220	
Arsenic		0.132	
Barium		0.104	
Beryllium		0.393	
Cadmium		0.0670	
Calcium	50000	49297	99
Chromium		0.667	
Cobalt		0.0600	
Copper		-0.0310	
Lead		0.152	
Magnesium	50000	48600	97
Molybdenum	1000	1191	119
Nickel		-0.681	
Selenium		0.412	
Silver		0.0160	
Thallium		0.0250	
Tungsten		0.150	
Vanadium		-0.0540	
Zinc		0.830	
<i>Aluminum</i>	<i>50000</i>	<i>49647</i>	<i>99</i>
<i>Boron</i>		<i>8.64</i>	
<i>Iron</i>	<i>50000</i>	<i>48684</i>	<i>97</i>
<i>Lithium</i>		<i>-0.0280</i>	
<i>Manganese</i>		<i>0.321</i>	
<i>Potassium</i>	<i>50000</i>	<i>49792</i>	<i>100</i>
<i>Sodium</i>	<i>50000</i>	<i>48594</i>	<i>97</i>
<i>Strontium</i>		<i>0.727</i>	
<i>Tin</i>		<i>0.563</i>	
<i>Titanium</i>	<i>1000</i>	<i>1015</i>	<i>102</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.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: ICSAB 240-221854/150 Instrument ID: I10
 Lab File ID: 150ICAB.d ICS Source: MTMSICSABW_00063
 Concentration Units: ug/L

Analyte	True	Found	
	Solution AB	Solution AB	Percent Recovery
Antimony	100	101	101
Arsenic	100	106	106
Barium	100	98.5	99
Beryllium	100	101	101
Cadmium	100	99.7	100
Calcium	50000	49389	99
Chromium	100	99.8	100
Cobalt	100	99.6	100
Copper	100	99.1	99
Lead	100	104	104
Magnesium	50000	48461	97
Molybdenum	1100	1324	120
Nickel	100	99.2	99
Selenium	100	102	102
Silver	100	104	104
Thallium	100	102	102
Tungsten	100	104	104
Vanadium	100	100	100
Zinc	100	99.5	100
<i>Aluminum</i>	<i>50000</i>	<i>49198</i>	<i>98</i>
<i>Boron</i>	<i>100</i>	<i>105</i>	<i>105</i>
<i>Iron</i>	<i>50000</i>	<i>50023</i>	<i>100</i>
<i>Lithium</i>	<i>100</i>	<i>99.8</i>	<i>100</i>
<i>Manganese</i>	<i>100</i>	<i>100</i>	<i>100</i>
<i>Potassium</i>	<i>50000</i>	<i>49593</i>	<i>99</i>
<i>Sodium</i>	<i>50000</i>	<i>48162</i>	<i>96</i>
<i>Strontium</i>	<i>100</i>	<i>103</i>	<i>103</i>
<i>Tin</i>	<i>100</i>	<i>103</i>	<i>103</i>
<i>Titanium</i>	<i>1100</i>	<i>1108</i>	<i>101</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.: 240-61849-1

SDG No.: _____

Instrument ID: I10 Method: 6020

Start Date: 03/17/2016 16:30 End Date: 03/18/2016 04:21

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A s	B a	B e	C a	C d	C o	C r	C u	M g	M o	N i	P b	S b	S e	T l	V	W	Z n
ZZZZZZ			16:30																			
ICIS 240-222146/2	1		16:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 240-222146/3 IC	1		16:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 240-222146/4 IC	1		16:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 240-222146/5 IC	1		16:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD4 240-222146/6 IC	1		16:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 240-222146/7	1		16:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 240-222146/8	1		16:58	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
CRI 240-222146/9	1		17:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 240-222146/10	1		17:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 240-222146/11	1		17:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 240-222146/12			17:14																			
CCB 240-222146/13			17:19																			
ZZZZZZ			17:24																			
ZZZZZZ			17:28																			
ZZZZZZ			17:32																			
ZZZZZZ			17:36																			
ZZZZZZ			17:40																			
ZZZZZZ			17:44																			
ZZZZZZ			17:48																			
ZZZZZZ			17:52																			
ZZZZZZ			17:56																			
ZZZZZZ			18:00																			
CCV 240-222146/24			18:04																			
CCB 240-222146/25			18:08																			
ZZZZZZ			18:12																			
CCV 240-222146/27			18:16																			
CCB 240-222146/28			18:21																			
CRI 240-222146/29			18:25																			
ZZZZZZ			18:29																			
ZZZZZZ			18:33																			
ZZZZZZ			18:37																			
ZZZZZZ			18:41																			
ZZZZZZ			18:45																			
ZZZZZZ			18:49																			
ZZZZZZ			18:53																			
ZZZZZZ			18:57																			
ZZZZZZ			19:01																			
CCV 240-222146/39			19:05																			
CCB 240-222146/40			19:09																			
ZZZZZZ			19:13																			
ZZZZZZ			19:17																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: I10 Method: 6020

Start Date: 03/17/2016 16:30 End Date: 03/18/2016 04:21

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A s	B a	B e	C a	C d	C o	C r	C u	M g	M o	N i	P b	S b	S e	T l	V	W	Z n
ZZZZZZ			19:21																			
ZZZZZZ			19:25																			
CCV 240-222146/45	1		19:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 240-222146/46	1		19:34	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
CRI 240-222146/47			19:38																			
240-61849-20	1	D	19:42				X															
MB 240-220945/1-A	1	R	19:46	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
LCS 240-220945/2-A	1	R	19:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
240-61849-21	1	D	19:54	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-21 SD	5	D	19:58	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ			20:02																			
240-61849-21 MS	1	D	20:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
240-61849-21 MSD	1	D	20:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
240-61849-22	1	D	20:14	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
CCV 240-222146/57	1		20:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 240-222146/58	1		20:22	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-23	1	D	20:26	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-24	1	D	20:30	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-25	1	D	20:34	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-26	1	D	20:38	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-27	1	D	20:42	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-28	1	D	20:46	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-29	1	D	20:51	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-30	1	D	20:55	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-31	1	D	20:59	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-32	1	D	21:03	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
CCV 240-222146/69	1		21:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 240-222146/70	1		21:11	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-33	1	D	21:15	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-34	1	D	21:19	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-35	1	D	21:23	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
240-61849-36	1	D	21:27	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ			21:32																			
ZZZZZZ			21:36																			
ZZZZZZ			21:40																			
ZZZZZZ			21:44																			
ZZZZZZ			21:48																			
ZZZZZZ			21:52																			
CCV 240-222146/81	1		21:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 240-222146/82	1		22:00	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ			22:04																			
ZZZZZZ			22:08																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: I10 Method: 6020

Start Date: 03/17/2016 16:30 End Date: 03/18/2016 04:21

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A g	A s	B a	B e	C a	C d	C o	C r	C u	M g	M o	N i	P b	S b	S e	T l	V	W
ZZZZZZ			22:12																		
ZZZZZZ			22:16																		
ZZZZZZ			22:20																		
ZZZZZZ			22:24																		
ZZZZZZ			22:28																		
ZZZZZZ			22:32																		
ZZZZZZ			22:36																		
ZZZZZZ			22:40																		
CCV 240-222146/93			22:44																		
CCB 240-222146/94			22:48																		
ZZZZZZ			22:53																		
ZZZZZZ			22:57																		
ZZZZZZ			23:01																		
ZZZZZZ			23:05																		
ZZZZZZ			23:09																		
ZZZZZZ			23:13																		
ZZZZZZ			23:17																		
ZZZZZZ			23:21																		
ZZZZZZ			23:25																		
ZZZZZZ			23:29																		
CCV 240-222146/105			23:33																		
CCB 240-222146/106			23:38																		
ZZZZZZ			23:42																		
ZZZZZZ			23:46																		
ZZZZZZ			23:50																		
ZZZZZZ			23:54																		
ZZZZZZ			23:58																		
ZZZZZZ			00:03																		
ZZZZZZ			00:07																		
ZZZZZZ			00:11																		
CCV 240-222146/115			00:15																		
CCB 240-222146/116			00:19																		
ZZZZZZ			00:23																		
ZZZZZZ			00:27																		
ZZZZZZ			00:32																		
ZZZZZZ			00:35																		
ZZZZZZ			00:40																		
ZZZZZZ			00:44																		
ZZZZZZ			00:48																		
ZZZZZZ			00:52																		
ZZZZZZ			00:56																		
CCV 240-222146/126			01:00																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: I10 Method: 6020

Start Date: 03/17/2016 16:30 End Date: 03/18/2016 04:21

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A s	B a	B e	C a	C d	C o	C r	C u	M g	M o	N i	P b	S b	S e	T l	V	W	Z n
CCB 240-222146/127			01:04																			
CRI 240-222146/128			01:09																			
ZZZZZZ			01:13																			
ZZZZZZ			01:17																			
ZZZZZZ			01:21																			
ZZZZZZ			01:26																			
ZZZZZZ			01:30																			
ZZZZZZ			01:34																			
ZZZZZZ			01:38																			
ZZZZZZ			01:42																			
ZZZZZZ			01:46																			
CCV 240-222146/138			01:50																			
CCB 240-222146/139			01:54																			
ZZZZZZ			01:58																			
ZZZZZZ			02:02																			
ZZZZZZ			02:06																			
ZZZZZZ			02:10																			
ZZZZZZ			02:14																			
ZZZZZZ			02:18																			
CCV 240-222146/146			02:22																			
CCB 240-222146/147			02:26																			
CRI 240-222146/148			02:30																			
ZZZZZZ			02:35																			
ZZZZZZ			02:39																			
ZZZZZZ			02:43																			
ZZZZZZ			02:47																			
ZZZZZZ			02:51																			
ZZZZZZ			02:55																			
ZZZZZZ			02:59																			
ZZZZZZ			03:03																			
ZZZZZZ			03:07																			
CCV 240-222146/158			03:11																			
CCB 240-222146/159			03:16																			
ZZZZZZ			03:20																			
ZZZZZZ			03:24																			
ZZZZZZ			03:28																			
ZZZZZZ			03:32																			
ZZZZZZ			03:36																			
ZZZZZZ			03:40																			
ZZZZZZ			03:44																			
ZZZZZZ			03:48																			
ZZZZZZ			03:52																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: I10 Method: 6020

Start Date: 03/17/2016 16:30 End Date: 03/18/2016 04:21

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A g	A s	B a	B e	C a	C d	C o	C r	C u	M g	M o	N i	P b	S b	S e	T l	V	W
ZZZZZZ			03:57																		
CCV 240-222146/170			04:01																		
CCB 240-222146/171			04:05																		
ZZZZZZ			04:09																		
ZZZZZZ			04:13																		
CCV 240-222146/174			04:17																		
CCB 240-222146/175			04:21																		

Prep Types

D = Dissolved

R = Total Recoverable

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

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG No.: _____

ICP-MS Instrument ID: I10

Start Date: 03/17/2016 End Date: 03/17/2016

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
ICIS 240-222146/2	16:34	100		100		100		100		100	
STD1 240-222146/3 I	16:38	98		103		100		100		101	
STD2 240-222146/4 I	16:42	94		100		100		97		99	
STD3 240-222146/5 I	16:46	91		96		96		91		96	
STD4 240-222146/6 I	16:50	91		98		96		99		99	
ICV 240-222146/7	16:54	89		95		95		94		95	
ICB 240-222146/8	16:58	90		95		94		97		98	
CRI 240-222146/9	17:02	92		96		95		96		98	
ICSA 240-222146/10	17:06	89		96		95		90		95	
ICSAB 240-222146/11	17:10	89		99		98		94		97	
CCV 240-222146/45	19:29	69		82		82		77		85	
CCB 240-222146/46	19:34	70		84		83		85		89	
240-61849-20	19:42	69		84		83		75		86	
MB 240-220945/1-A	19:46	74		87		85		88		93	
LCS 240-220945/2-A	19:50	76		87		88		84		90	
240-61849-21	19:54	66		79		79		72		82	
240-61849-21 SD	19:58	73		84		84		78		88	
240-61849-21 MS	20:06	66		83		84		74		83	
240-61849-21 MSD	20:10	67		85		84		76		84	
240-61849-22	20:14	68		83		83		74		84	
CCV 240-222146/57	20:18	74		87		87		85		90	
CCB 240-222146/58	20:22	74		85		86		89		91	
240-61849-23	20:26	69		83		84		74		84	
240-61849-24	20:30	71		83		85		75		84	
240-61849-25	20:34	72		83		87		75		85	
240-61849-26	20:38	73		84		87		75		85	
240-61849-27	20:42	71		86		86		78		88	
240-61849-28	20:46	69		83		83		75		84	
240-61849-29	20:51	68		80		79		72		81	
240-61849-30	20:55	66		80		81		70		80	
240-61849-31	20:59	65		77		79		69		79	
240-61849-32	21:03	65		78		80		70		80	
CCV 240-222146/69	21:07	62		74		75		71		80	
CCB 240-222146/70	21:11	64		76		75		75		83	
240-61849-33	21:15	59		73		72		67		77	
240-61849-34	21:19	61		73		75		67		77	
240-61849-35	21:23	61		74		76		68		78	
240-61849-36	21:27	62		75		76		69		80	
CCV 240-222146/81	21:56	36		50		50		52		60	
CCB 240-222146/82	22:00	37		50		50		54		63	

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

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG No.: _____

ICP-MS Instrument ID: I10

Start Date: 03/17/2016 End Date: 03/17/2016

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
ICIS 240-222146/2	16:34	100		100		100					
STD1 240-222146/3 I	16:38	102		102		101					
STD2 240-222146/4 I	16:42	101		102		97					
STD3 240-222146/5 I	16:46	98		99		94					
STD4 240-222146/6 I	16:50	100		100		101					
ICV 240-222146/7	16:54	98		98		95					
ICB 240-222146/8	16:58	98		98		98					
CRI 240-222146/9	17:02	98		98		97					
ICSA 240-222146/10	17:06	99		99		92					
ICSAB 240-222146/11	17:10	99		100		96					
CCV 240-222146/45	19:29	90		90		83					
CCB 240-222146/46	19:34	91		92		92					
240-61849-20	19:42	89		91		79					
MB 240-220945/1-A	19:46	96		96		97					
LCS 240-220945/2-A	19:50	93		93		89					
240-61849-21	19:54	86		86		76					
240-61849-21 SD	19:58	91		92		84					
240-61849-21 MS	20:06	89		90		77					
240-61849-21 MSD	20:10	91		91		78					
240-61849-22	20:14	90		90		79					
CCV 240-222146/57	20:18	94		95		90					
CCB 240-222146/58	20:22	94		94		95					
240-61849-23	20:26	89		89		78					
240-61849-24	20:30	89		89		77					
240-61849-25	20:34	88		90		80					
240-61849-26	20:38	89		90		78					
240-61849-27	20:42	90		92		82					
240-61849-28	20:46	87		88		78					
240-61849-29	20:51	85		86		75					
240-61849-30	20:55	84		85		75					
240-61849-31	20:59	84		84		74					
240-61849-32	21:03	84		85		75					
CCV 240-222146/69	21:07	84		85		80					
CCB 240-222146/70	21:11	86		88		85					
240-61849-33	21:15	83		84		74					
240-61849-34	21:19	82		83		74					
240-61849-35	21:23	83		83		75					
240-61849-36	21:27	84		84		75					
CCV 240-222146/81	21:56	68		68		67					
CCB 240-222146/82	22:00	68		69		70					

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

ICV Source: MTMSICVW_00062 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00156

Analyte	ICV 240-222146/7 03/17/2016 16:54				CCV 240-222146/57 03/17/2016 20:18				CCV 240-222146/69 03/17/2016 21:07			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	40.5		40.0	101	50.3		50.0	101	52.1		50.0	104
Arsenic	39.8		40.0	99	47.8		50.0	96	51.4		50.0	103
Barium	40.0		40.0	100	49.7		50.0	99	51.6		50.0	103
Beryllium	37.9		40.0	95	48.0		50.0	96	49.7		50.0	99
Cadmium	40.1		40.0	100	48.4		50.0	97	49.7		50.0	99
Calcium	20000		20000	100	24000		25000	96	25000		25000	100
Chromium	39.7		40.0	99	47.8		50.0	96	49.6		50.0	99
Cobalt	40.3		40.0	101	48.8		50.0	98	50.9		50.0	102
Copper	41.6		40.0	104	48.5		50.0	97	50.6		50.0	101
Lead	39.9		40.0	100	49.1		50.0	98	51.1		50.0	102
Magnesium	20200		20000	101	23500		25000	94	23900		25000	96
Molybdenum	40.9		40.0	102	50.6		50.0	101	54.6		50.0	109
Nickel	40.9		40.0	102	47.5		50.0	95	50.1		50.0	100
Selenium	41.5		40.0	104	48.1		50.0	96	47.3		50.0	95
Silver	39.2		40.0	98	48.3		50.0	97	52.1		50.0	104
Thallium	40.1		40.0	100	49.0		50.0	98	51.0		50.0	102
Tungsten	39.4		40.0	98	49.2		50.0	98	51.1		50.0	102
Vanadium	39.7		40.0	99	47.7		50.0	95	50.4		50.0	101
Zinc	39.1		40.0	98	47.9		50.0	96	50.3		50.0	101

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

ICV Source: MTMSICVW_00062 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00156

Analyte	CCV 240-222146/81 03/17/2016 21:56											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	54.5		50.0	109								
Arsenic	48.9		50.0	98								
Barium	52.6		50.0	105								
Beryllium	52.4		50.0	105								
Cadmium	49.2		50.0	98								
Calcium	25000		25000	100								
Chromium	49.1		50.0	98								
Cobalt	51.6		50.0	103								
Copper	50.7		50.0	101								
Lead	54.0		50.0	108								
Magnesium	23100		25000	92								
Molybdenum	53.4		50.0	107								
Nickel	49.5		50.0	99								
Selenium	46.0		50.0	92								
Silver	52.7		50.0	105								
Thallium	53.5		50.0	107								
Tungsten	51.9		50.0	104								
Vanadium	49.6		50.0	99								
Zinc	51.7		50.0	103								

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

ICV Source: MTMSICVW_00062 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00157

Analyte	ICV 240-222146/7 03/17/2016 16:54				CCV 240-222146/45 03/17/2016 19:29							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	40.5		40.0	101	51.5		50.0	103				
Arsenic	39.8		40.0	99	51.2		50.0	102				
Barium	40.0		40.0	100	50.8		50.0	102				
Beryllium	37.9		40.0	95	49.8		50.0	100				
Cadmium	40.1		40.0	100	49.2		50.0	98				
Calcium	20000		20000	100	24700		25000	99				
Chromium	39.7		40.0	99	48.8		50.0	98				
Cobalt	40.3		40.0	101	49.7		50.0	99				
Copper	41.6		40.0	104	49.8		50.0	100				
Lead	39.9		40.0	100	50.6		50.0	101				
Magnesium	20200		20000	101	23800		25000	95				
Molybdenum	40.9		40.0	102	54.7		50.0	109				
Nickel	40.9		40.0	102	48.8		50.0	98				
Selenium	41.5		40.0	104	49.4		50.0	99				
Silver	39.2		40.0	98	52.2		50.0	104				
Thallium	40.1		40.0	100	50.6		50.0	101				
Tungsten	39.4		40.0	98	50.0		50.0	100				
Vanadium	39.7		40.0	99	48.7		50.0	97				
Zinc	39.1		40.0	98	49.2		50.0	98				

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

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-222146/8 03/17/2016 16:58		CCB 240-222146/46 03/17/2016 19:34		CCB 240-222146/58 03/17/2016 20:22		CCB 240-222146/70 03/17/2016 21:11	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Arsenic	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Barium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Beryllium	1.0	1.0	U	1.0	U	0.0820	J	1.0	U
Cadmium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Calcium	1000	1000	U	1000	U	1000	U	1000	U
Chromium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Cobalt	1.0	1.0	U	0.0400	J	0.0740	J	0.0240	J
Copper	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Lead	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Magnesium	1000	1000	U	1000	U	1000	U	1000	U
Molybdenum	10	10	U	10	U	10	U	10	U
Nickel	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Selenium	5.0	5.0	U	5.0	U	0.334	J	5.0	U
Silver	1.0	1.0	U	0.0380	J	0.0330	J	0.0280	J
Thallium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Tungsten	10	10	U	10	U	10	U	10	U
Vanadium	5.0	5.0	U	5.0	U	0.260	J	0.251	J
Zinc	20	20	U	20	U	20	U	20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 240-222146/82 03/17/2016 22:00							
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	2.0	U						
Arsenic	5.0	5.0	U						
Barium	5.0	5.0	U						
Beryllium	1.0	1.0	U						
Cadmium	1.0	1.0	U						
Calcium	1000	1000	U						
Chromium	2.0	2.0	U						
Cobalt	1.0	0.0420	J						
Copper	2.0	2.0	U						
Lead	1.0	1.0	U						
Magnesium	1000	1000	U						
Molybdenum	10	10	U						
Nickel	2.0	2.0	U						
Selenium	5.0	5.0	U						
Silver	1.0	0.0320	J						
Thallium	1.0	1.0	U						
Tungsten	10	10	U						
Vanadium	5.0	0.250	J						
Zinc	20	20	U						

Italicized analytes were not requested for this sequence.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: ICSA 240-222146/10 Instrument ID: I10
 Lab File ID: 010ICSA.d ICS Source: MTMSICSAW_00066
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		0.133	
Arsenic		0.165	
Barium		0.0520	
Beryllium		0.0130	
Cadmium		0.122	
Calcium	50000	49822	100
Chromium		0.760	
Cobalt		0.0200	
Copper		0.392	
Lead		0.117	
Magnesium	50000	49461	99
Molybdenum	1000	1091	109
Nickel		0.0930	
Selenium		0.103	
Silver		0.0180	
Thallium		0.0070	
Tungsten		0.0920	
Vanadium		0.265	
Zinc		-1.71	
<i>Aluminum</i>	<i>50000</i>	<i>50667</i>	<i>101</i>
<i>Boron</i>		<i>0.785</i>	
<i>Iron</i>	<i>50000</i>	<i>49273</i>	<i>99</i>
<i>Lithium</i>		<i>0.0730</i>	
<i>Manganese</i>		<i>-0.216</i>	
<i>Potassium</i>	<i>50000</i>	<i>50234</i>	<i>100</i>
<i>Sodium</i>	<i>50000</i>	<i>49979</i>	<i>100</i>
<i>Strontium</i>		<i>0.321</i>	
<i>Tin</i>		<i>0.0100</i>	
<i>Titanium</i>	<i>1000</i>	<i>1003</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.: 240-61849-1
 SDG No.: _____
 Lab Sample ID: ICSAB 240-222146/11 Instrument ID: I10
 Lab File ID: 011ICAB.d ICS Source: MTMSICSABW_00063
 Concentration Units: ug/L

Analyte	True	Found	
	Solution AB	Solution AB	Percent Recovery
Antimony	100	102	102
Arsenic	100	102	102
Barium	100	102	102
Beryllium	100	101	101
Cadmium	100	100	100
Calcium	50000	50058	100
Chromium	100	100	100
Cobalt	100	101	101
Copper	100	100	100
Lead	100	99.9	100
Magnesium	50000	50037	100
Molybdenum	1100	1190	108
Nickel	100	101	101
Selenium	100	103	103
Silver	100	98.1	98
Thallium	100	98.5	98
Tungsten	100	101	101
Vanadium	100	97.8	98
Zinc	100	101	101
<i>Aluminum</i>	<i>50000</i>	<i>51182</i>	<i>102</i>
<i>Boron</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Iron</i>	<i>50000</i>	<i>50049</i>	<i>100</i>
<i>Lithium</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Manganese</i>	<i>100</i>	<i>100</i>	<i>100</i>
<i>Potassium</i>	<i>50000</i>	<i>50235</i>	<i>100</i>
<i>Sodium</i>	<i>50000</i>	<i>49827</i>	<i>100</i>
<i>Strontium</i>	<i>100</i>	<i>98.7</i>	<i>99</i>
<i>Tin</i>	<i>100</i>	<i>103</i>	<i>103</i>
<i>Titanium</i>	<i>1100</i>	<i>1104</i>	<i>100</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.: 240-61849-1

SDG No.: _____

Instrument ID: H4 Method: 7470A

Start Date: 03/11/2016 07:19 End Date: 03/11/2016 15:02

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				H g																	
IC 240-220938/1-A			07:19	X																	
IC 240-220938/2-A			07:21	X																	
IC 240-220938/3-A			07:23	X																	
IC 240-220938/4-A			07:25	X																	
IC 240-220938/5-A			07:27	X																	
IC 240-220938/6-A			07:29	X																	
ICV 240-220938/7-A	1		07:32	X																	
ICB 240-220938/8-A	1		07:34	X																	
CRA 240-220938/9-A	1		07:36	X																	
CCV 240-220938/10-A			09:46																		
CCB 240-220938/11-A			09:48																		
ZZZZZZ			09:50																		
ZZZZZZ			09:52																		
ZZZZZZ			09:54																		
ZZZZZZ			09:56																		
ZZZZZZ			09:58																		
ZZZZZZ			10:00																		
ZZZZZZ			10:02																		
ZZZZZZ			10:04																		
ZZZZZZ			10:07																		
ZZZZZZ			10:09																		
CCV 240-220938/10-A			10:11																		
CCB 240-220938/11-A			10:13																		
ZZZZZZ			10:15																		
ZZZZZZ			10:17																		
ZZZZZZ			10:19																		
ZZZZZZ			10:21																		
ZZZZZZ			10:23																		
ZZZZZZ			10:25																		
ZZZZZZ			10:27																		
ZZZZZZ			10:29																		
ZZZZZZ			10:31																		
ZZZZZZ			10:33																		
CCV 240-220938/10-A			10:35																		
CCB 240-220938/11-A			10:37																		
ZZZZZZ			10:40																		
ZZZZZZ			10:42																		
ZZZZZZ			10:44																		
ZZZZZZ			10:46																		
ZZZZZZ			10:48																		
ZZZZZZ			10:50																		
ZZZZZZ			10:52																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: H4 Method: 7470A

Start Date: 03/11/2016 07:19 End Date: 03/11/2016 15:02

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				H g																	
ZZZZZZ			10:54																		
ZZZZZZ			10:56																		
ZZZZZZ			10:58																		
CCV 240-220938/10-A			11:01																		
CCB 240-220938/11-A			11:03																		
ZZZZZZ			11:05																		
ZZZZZZ			11:07																		
ZZZZZZ			11:09																		
ZZZZZZ			11:11																		
ZZZZZZ			11:13																		
ZZZZZZ			11:15																		
ZZZZZZ			11:17																		
ZZZZZZ			11:19																		
ZZZZZZ			11:21																		
ZZZZZZ			11:23																		
CCV 240-220938/10-A	1		11:25	X																	
CCB 240-220938/11-A	1		11:28	X																	
ZZZZZZ			11:30																		
ZZZZZZ			11:32																		
ZZZZZZ			11:34																		
ZZZZZZ			11:36																		
ZZZZZZ			11:38																		
ZZZZZZ			11:40																		
MB 240-220946/1-A	1	T	11:42	X																	
LCS 240-220946/2-A	1	T	11:44	X																	
240-61849-21	1	D	11:46	X																	
240-61849-21 MS	1	D	11:48	X																	
CCV 240-220938/10-A	1		11:50	X																	
CCB 240-220938/11-A	1		11:52	X																	
240-61849-21 MSD	1	D	11:54	X																	
240-61849-22	1	D	11:57	X																	
240-61849-23	1	D	11:59	X																	
240-61849-24	1	D	12:01	X																	
240-61849-25	1	D	12:03	X																	
240-61849-26	1	D	12:05	X																	
240-61849-27	1	D	12:07	X																	
240-61849-28	1	D	12:09	X																	
240-61849-29	1	D	12:11	X																	
240-61849-30	1	D	12:13	X																	
CCV 240-220938/10-A	1		12:15	X																	
CCB 240-220938/11-A	1		12:18	X																	
240-61849-31	1	D	12:20	X																	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: H4 Method: 7470A

Start Date: 03/11/2016 07:19 End Date: 03/11/2016 15:02

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
240-61849-32	1	D	12:22	X															
240-61849-33	1	D	12:24	X															
240-61849-34	1	D	12:26	X															
240-61849-35	1	D	12:28	X															
240-61849-36	1	D	12:30	X															
ZZZZZZ			12:32																
ZZZZZZ			12:34																
ZZZZZZ			12:37																
ZZZZZZ			12:39																
CCV 240-220938/10-A	1		12:41	X															
CCB 240-220938/11-A	1		12:43	X															
ZZZZZZ			12:45																
ZZZZZZ			12:47																
ZZZZZZ			12:49																
ZZZZZZ			12:51																
ZZZZZZ			12:54																
ZZZZZZ			12:56																
ZZZZZZ			12:58																
ZZZZZZ			13:00																
ZZZZZZ			13:02																
CCV 240-220938/10-A			13:04																
CCB 240-220938/11-A			13:06																
CCV 240-220938/10-A			13:27																
CCB 240-220938/11-A			13:29																
ZZZZZZ			13:31																
ZZZZZZ			13:33																
ZZZZZZ			13:35																
ZZZZZZ			13:38																
ZZZZZZ			13:40																
ZZZZZZ			13:42																
ZZZZZZ			13:44																
ZZZZZZ			13:46																
ZZZZZZ			13:48																
ZZZZZZ			13:50																
CCV 240-220938/10-A	1		13:52	X															
CCB 240-220938/11-A	1		13:54	X															
ZZZZZZ			13:56																
MB 240-220944/1-A	1	T	13:58	X															
LCS 240-220944/2-A	1	T	14:00	X															
240-61849-1	1	D	14:03	X															
240-61849-1 MS	1	D	14:05	X															
240-61849-1 MSD	1	D	14:07	X															

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: H4 Method: 7470A

Start Date: 03/11/2016 07:19 End Date: 03/11/2016 15:02

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				H g																	
240-61849-2	1	D	14:09	X																	
240-61849-3	1	D	14:11	X																	
240-61849-4	1	D	14:13	X																	
240-61849-5	1	D	14:15	X																	
CCV 240-220938/10-A	1		14:17	X																	
CCB 240-220938/11-A	1		14:19	X																	
240-61849-6	1	D	14:21	X																	
240-61849-7	1	D	14:24	X																	
240-61849-8	1	D	14:26	X																	
240-61849-9	1	D	14:28	X																	
240-61849-10	1	D	14:30	X																	
240-61849-11	1	D	14:32	X																	
240-61849-12	1	D	14:34	X																	
240-61849-13	1	D	14:36	X																	
240-61849-14	1	D	14:39	X																	
240-61849-15	1	D	14:41	X																	
CCV 240-220938/10-A	1		14:43	X																	
CCB 240-220938/11-A	1		14:45	X																	
240-61849-16	1	D	14:47	X																	
240-61849-17	1	D	14:49	X																	
240-61849-18	1	D	14:52	X																	
240-61849-19	1	D	14:54	X																	
240-61849-20	1	D	14:56	X																	
ZZZZZZ			14:58																		
CCV 240-220938/10-A	1		15:00	X																	
CCB 240-220938/11-A	1		15:02	X																	

Prep Types

D = Dissolved

T = Total/NA

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

ICV Source: MTHgStd_00020 Concentration Units: ug/L

CCV Source: MTHGCALW_01150

Analyte	ICV 240-220938/7-A 03/11/2016 07:32				CCV 240-220938/10-A 03/11/2016 11:25				CCV 240-220938/10-A 03/11/2016 11:50			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.96		5.00	99	5.17		5.00	103	5.12		5.00	102

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

ICV Source: MTHgStd_00020 Concentration Units: ug/L

CCV Source: MTHGCALW_01150

Analyte	CCV 240-220938/10-A 03/11/2016 12:15				CCV 240-220938/10-A 03/11/2016 12:41				CCV 240-220938/10-A 03/11/2016 13:52			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.09		5.00	102	5.26		5.00	105	5.15		5.00	103

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

ICV Source: MTHgStd_00020 Concentration Units: ug/L

CCV Source: MTHGCALW_01150

Analyte	CCV 240-220938/10-A 03/11/2016 14:17				CCV 240-220938/10-A 03/11/2016 14:43				CCV 240-220938/10-A 03/11/2016 15:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.15		5.00	103	5.05		5.00	101	5.05		5.00	101

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1
SDG No.: _____
Method: 7470A Instrument ID: H4
Lab Sample ID: CRA 240-220938/9-A Concentration Units: ug/L
CRQL Check Standard Source: MTHGCALW_01150

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.169	J	84	50-150

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

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-220938/8-A 03/11/2016 07:34		CCB 240-220938/11-A 03/11/2016 11:28		CCB 240-220938/11-A 03/11/2016 11:52		CCB 240-220938/11-A 03/11/2016 12:18	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 240-220938/11-A 03/11/2016 12:43		CCB 240-220938/11-A 03/11/2016 13:54		CCB 240-220938/11-A 03/11/2016 14:19		CCB 240-220938/11-A 03/11/2016 14:45	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 240-220938/11-A 03/11/2016 15:02							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U						

Italicized analytes were not requested for this sequence.

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-220940/1-A	03/10/2016 08:38	220940		50	50
LCS 240-220940/2-A	03/10/2016 08:38	220940		50	50
240-61849-1	03/10/2016 08:38	220940		50	50
240-61849-1 MS	03/10/2016 08:38	220940		50	50
240-61849-1 MSD	03/10/2016 08:38	220940		50	50
240-61849-2	03/10/2016 08:38	220940		50	50
240-61849-3	03/10/2016 08:38	220940		50	50
240-61849-4	03/10/2016 08:38	220940		50	50
240-61849-5	03/10/2016 08:38	220940		50	50
240-61849-6	03/10/2016 08:38	220940		50	50
240-61849-7	03/10/2016 08:38	220940		50	50
240-61849-8	03/10/2016 08:38	220940		50	50
240-61849-9	03/10/2016 08:38	220940		50	50
240-61849-10	03/10/2016 08:38	220940		50	50
240-61849-11	03/10/2016 08:38	220940		50	50
240-61849-12	03/10/2016 08:38	220940		50	50
240-61849-13	03/10/2016 08:38	220940		50	50
240-61849-14	03/10/2016 08:38	220940		50	50
240-61849-15	03/10/2016 08:38	220940		50	50
240-61849-16	03/10/2016 08:38	220940		50	50
240-61849-17	03/10/2016 08:38	220940		50	50
240-61849-18	03/10/2016 08:38	220940		50	50
240-61849-19	03/10/2016 08:38	220940		50	50
240-61849-20	03/10/2016 08:38	220940		50	50

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Concentration Units: ug/L Lab Sample ID: MB 240-220940/1-A
 Instrument Code: I10 Batch No.: 221854

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	0.252	J		6020
7440-43-9	Cadmium	1.0	U		6020
7440-47-3	Chromium	2.0	U		6020
7440-48-4	Cobalt	0.0490	J		6020
7440-50-8	Copper	2.0	U		6020
7439-92-1	Lead	1.0	U		6020
7439-98-7	Molybdenum	10	U		6020
7440-02-0	Nickel	2.0	U		6020
7782-49-2	Selenium	5.0	U		6020
7440-22-4	Silver	1.0	U		6020
7440-28-0	Thallium	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

maximum concentrations in
calibration blanks

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-220940/2-A

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

Sample Matrix: Water

LCS Source: MTICPMSB_00027

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	100	100		100	80	120		6020
Arsenic	1000	970		97	80	120		6020
Barium	1000	959		96	80	120		6020
Beryllium	1000	1070		107	80	120		6020
Cadmium	1000	1010		101	80	120		6020
Chromium	1000	1000		100	80	120		6020
Cobalt	1000	1040		104	80	120		6020
Copper	1000	1070		107	80	120		6020
Lead	1000	1120		112	80	120		6020
Molybdenum	100	104		104	80	120		6020
Nickel	1000	1090		109	80	120		6020
Selenium	1000	965		96	80	120		6020
Silver	100	104		104	80	120		6020
Thallium	250	280		112	80	120		6020
Vanadium	1000	1010		101	80	120		6020
Zinc	1000	1020		102	80	120		6020
Calcium	10000	10600		106	80	120		6020
Magnesium	10000	9260		93	80	120		6020
Tungsten	100	106		106	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-030716 MS

Lab ID: 240-61849-1 MS

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG No.: _____

Matrix: Water

Concentration Units: ug/L

% Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	100	0.20 J	100	100	75-125		6020
Arsenic	972	0.94 J	1000	97	75-125		6020
Barium	971	21	1000	95	75-125		6020
Beryllium	898	0.98 J	1000	90	75-125		6020
Cadmium	936	0.26 J	1000	94	75-125		6020
Chromium	964	2.0 U	1000	96	75-125		6020
Cobalt	972	0.66 J	1000	97	75-125		6020
Copper	988	2.3	1000	99	75-125		6020
Lead	1030	0.24 J	1000	103	75-125		6020
Molybdenum	111	1.1 J	100	110	75-125		6020
Nickel	924	0.88 J	1000	92	75-125		6020
Selenium	893	1.4 J	1000	89	75-125		6020
Silver	99.6	1.0 U	100	100	75-125		6020
Thallium	259	0.18 J	250	103	75-125		6020
Vanadium	1010	0.43 J	1000	101	75-125		6020
Zinc	924	20 U	1000	92	75-125		6020
Calcium	50200	42000	10000	81	75-125	4	6020
Magnesium	78900	75000	10000	37	75-125	4	6020
Tungsten	107	10 U	100	107	75-125		6020
Mercury	1.20	0.20 U	1.00	120	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-030716 MSD

Lab ID: 240-61849-1 MSD

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG No.: _____

Matrix: Water

Concentration Units: ug/L

% Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	103	100	102	75-125	2	20		6020
Arsenic	984	1000	98	75-125	1	20		6020
Barium	1010	1000	99	75-125	4	20		6020
Beryllium	932	1000	93	75-125	4	20		6020
Cadmium	970	1000	97	75-125	4	20		6020
Chromium	1020	1000	102	75-125	5	20		6020
Cobalt	1030	1000	103	75-125	6	20		6020
Copper	1040	1000	104	75-125	5	20		6020
Lead	1080	1000	108	75-125	5	20		6020
Molybdenum	113	100	112	75-125	2	20		6020
Nickel	971	1000	97	75-125	5	20		6020
Selenium	905	1000	90	75-125	1	20		6020
Silver	102	100	102	75-125	2	20		6020
Thallium	271	250	108	75-125	5	20		6020
Vanadium	1070	1000	107	75-125	6	20		6020
Zinc	977	1000	98	75-125	6	20		6020
Calcium	51400	10000	93	75-125	2	20	4	6020
Magnesium	80300	10000	51	75-125	2	20	4	6020
Tungsten	110	100	110	75-125	3	20		6020
Mercury	1.26	1.00	126	80-120	5	20	F1	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: 240-61849-1

SDG No:

Lab Name: TestAmerica Canton

Job No: 240-61849-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Antimony	0.20	J	10	U	NC		6020
Arsenic	0.94	J	25	U	NC		6020
Barium	21		20.9	J	NC		6020
Beryllium	0.98	J	3.05	J	NC		6020
Cadmium	0.26	J	0.360	J	NC		6020
Chromium	2.0	U	10	U	NC		6020
Cobalt	0.66	J	0.880	J	NC		6020
Copper	2.3		10	U	NC		6020
Lead	0.24	J	5.0	U	NC		6020
Molybdenum	1.1	J	50	U	NC		6020
Nickel	0.88	J	10	U	NC		6020
Selenium	1.4	J	4.04	J	NC		6020
Silver	1.0	U	5.0	U	NC		6020
Thallium	0.18	J	5.0	U	NC		6020
Vanadium	0.43	J	25	U	NC		6020
Zinc	20	U	100	U	NC		6020
Calcium	42000		42500		NC		6020
Magnesium	75000		77800		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.: 240-61849-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-220945/1-A	03/10/2016 08:44	220945		50	50
LCS 240-220945/2-A	03/10/2016 08:44	220945		50	50
240-61849-21	03/10/2016 08:44	220945		50	50
240-61849-21 MS	03/10/2016 08:44	220945		50	50
240-61849-21 MSD	03/10/2016 08:44	220945		50	50
240-61849-22	03/10/2016 08:44	220945		50	50
240-61849-23	03/10/2016 08:44	220945		50	50
240-61849-24	03/10/2016 08:44	220945		50	50
240-61849-25	03/10/2016 08:44	220945		50	50
240-61849-26	03/10/2016 08:44	220945		50	50
240-61849-27	03/10/2016 08:44	220945		50	50
240-61849-28	03/10/2016 08:44	220945		50	50
240-61849-29	03/10/2016 08:44	220945		50	50
240-61849-30	03/10/2016 08:44	220945		50	50
240-61849-31	03/10/2016 08:44	220945		50	50
240-61849-32	03/10/2016 08:44	220945		50	50
240-61849-33	03/10/2016 08:44	220945		50	50
240-61849-34	03/10/2016 08:44	220945		50	50
240-61849-35	03/10/2016 08:44	220945		50	50
240-61849-36	03/10/2016 08:44	220945		50	50

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-61849-1
 SDG No.: _____
 Concentration Units: ug/L Lab Sample ID: MB 240-220945/1-A
 Instrument Code: I10 Batch No.: 222146

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	2.0	U		6020
7440-38-2	Arsenic	5.0	U		6020
7440-39-3	Barium	2.16	J		6020
7440-41-7	Beryllium	1.0	U		6020
7440-43-9	Cadmium	1.0	U		6020
7440-47-3	Chromium	2.0	U		6020
7440-48-4	Cobalt	1.0	U		6020
7440-50-8	Copper	0.839	J		6020
7439-92-1	Lead	1.0	U		6020
7439-98-7	Molybdenum	10	U		6020
7440-02-0	Nickel	2.0	U		6020
7782-49-2	Selenium	5.0	U		6020
7440-22-4	Silver	1.0	U		6020
7440-28-0	Thallium	1.0	U		6020
7440-62-2	Vanadium	5.0	U		6020
7440-66-6	Zinc	25.5			6020
7440-70-2	Calcium	574	J		6020
7439-95-4	Magnesium	182	J		6020
7440-33-7	Tungsten	10	U		6020

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-220945/2-A

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

Sample Matrix: Water

LCS Source: MTICPMSB_00027

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	100	92.3		92	80	120		6020
Arsenic	1000	913		91	80	120		6020
Barium	1000	916		92	80	120		6020
Beryllium	1000	941		94	80	120		6020
Cadmium	1000	908		91	80	120		6020
Chromium	1000	940		94	80	120		6020
Cobalt	1000	958		96	80	120		6020
Copper	1000	954		95	80	120		6020
Lead	1000	970		97	80	120		6020
Molybdenum	100	95.6		96	80	120		6020
Nickel	1000	914		91	80	120		6020
Selenium	1000	898		90	80	120		6020
Silver	100	93.0		93	80	120		6020
Thallium	250	241		97	80	120		6020
Vanadium	1000	939		94	80	120		6020
Zinc	1000	973		97	80	120		6020
Calcium	10000	9800		98	80	120		6020
Magnesium	10000	9120		91	80	120		6020
Tungsten	100	90.1		90	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-030716 MS

Lab ID: 240-61849-21 MS

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG No.: _____

Matrix: Water

Concentration Units: ug/L

% Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	103	2.0 U	100	103	75-125		6020
Arsenic	1050	0.84 J	1000	105	75-125		6020
Barium	1040	20	1000	102	75-125		6020
Beryllium	1060	0.077 J	1000	106	75-125		6020
Cadmium	945	0.13 J	1000	94	75-125		6020
Chromium	989	2.0 U	1000	99	75-125		6020
Cobalt	995	0.47 J	1000	99	75-125		6020
Copper	972	2.2	1000	97	75-125		6020
Lead	1000	0.15 J	1000	100	75-125		6020
Molybdenum	114	0.99 J	100	113	75-125		6020
Nickel	929	2.0 U	1000	93	75-125		6020
Selenium	952	0.61 J	1000	95	75-125		6020
Silver	100	1.0 U	100	100	75-125		6020
Thallium	243	1.0 U	250	97	75-125		6020
Vanadium	1030	0.27 J	1000	103	75-125		6020
Zinc	954	20 U	1000	95	75-125		6020
Calcium	53200	39000	10000	140	75-125	F1	6020
Magnesium	87500	72000	10000	155	75-125	4	6020
Tungsten	99.8	10 U	100	100	75-125		6020
Mercury	1.23	0.20 U	1.00	123	80-120	F1	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-030716 MSD

Lab ID: 240-61849-21 MSD

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

SDG No.: _____

Matrix: Water

Concentration Units: ug/L

% Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	102	100	102	75-125	1	20		6020
Arsenic	1030	1000	103	75-125	2	20		6020
Barium	1020	1000	100	75-125	2	20		6020
Beryllium	1030	1000	103	75-125	3	20		6020
Cadmium	933	1000	93	75-125	1	20		6020
Chromium	972	1000	97	75-125	2	20		6020
Cobalt	979	1000	98	75-125	2	20		6020
Copper	952	1000	95	75-125	2	20		6020
Lead	983	1000	98	75-125	2	20		6020
Molybdenum	113	100	112	75-125	1	20		6020
Nickel	912	1000	91	75-125	2	20		6020
Selenium	945	1000	94	75-125	1	20		6020
Silver	98.2	100	98	75-125	2	20		6020
Thallium	237	250	95	75-125	3	20		6020
Vanadium	1000	1000	100	75-125	3	20		6020
Zinc	933	1000	93	75-125	2	20		6020
Calcium	50700	10000	115	75-125	5	20		6020
Magnesium	83500	10000	115	75-125	5	20	4	6020
Tungsten	98.9	100	99	75-125	1	20		6020
Mercury	1.25	1.00	125	80-120	1	20	F1	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: 240-61849-21

SDG No:

Lab Name: TestAmerica Canton

Job No: 240-61849-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Antimony	2.0	U	10	U	NC		6020
Arsenic	0.84	J	25	U	NC		6020
Barium	20		20.4	J	NC		6020
Beryllium	0.077	J	5.0	U	NC		6020
Cadmium	0.13	J	5.0	U	NC		6020
Chromium	2.0	U	10	U	NC		6020
Cobalt	0.47	J	0.510	J	NC		6020
Copper	2.2		10	U	NC		6020
Lead	0.15	J	5.0	U	NC		6020
Molybdenum	0.99	J	50	U	NC		6020
Nickel	2.0	U	10	U	NC		6020
Selenium	0.61	J	25	U	NC		6020
Silver	1.0	U	5.0	U	NC		6020
Thallium	1.0	U	5.0	U	NC		6020
Vanadium	0.27	J	25	U	NC		6020
Zinc	20	U	100	U	NC		6020
Calcium	39000		39000		NC		6020
Magnesium	72000		72400		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.: 240-61849-1

SDG No.: _____

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-220944/1-A	03/10/2016 12:00	220944		50	50
LCS 240-220944/2-A	03/10/2016 12:00	220944		50	50
240-61849-1	03/10/2016 12:00	220944		50	50
240-61849-1 MS	03/10/2016 12:00	220944		50	50
240-61849-1 MSD	03/10/2016 12:00	220944		50	50
240-61849-2	03/10/2016 12:00	220944		50	50
240-61849-3	03/10/2016 12:00	220944		50	50
240-61849-4	03/10/2016 12:00	220944		50	50
240-61849-5	03/10/2016 12:00	220944		50	50
240-61849-6	03/10/2016 12:00	220944		50	50
240-61849-7	03/10/2016 12:00	220944		50	50
240-61849-8	03/10/2016 12:00	220944		50	50
240-61849-9	03/10/2016 12:00	220944		50	50
240-61849-10	03/10/2016 12:00	220944		50	50
240-61849-11	03/10/2016 12:00	220944		50	50
240-61849-12	03/10/2016 12:00	220944		50	50
240-61849-13	03/10/2016 12:00	220944		50	50
240-61849-14	03/10/2016 12:00	220944		50	50
240-61849-15	03/10/2016 12:00	220944		50	50
240-61849-16	03/10/2016 12:00	220944		50	50
240-61849-17	03/10/2016 12:00	220944		50	50
240-61849-18	03/10/2016 12:00	220944		50	50
240-61849-19	03/10/2016 12:00	220944		50	50
240-61849-20	03/10/2016 12:00	220944		50	50

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Concentration Units: ug/L Lab Sample ID: MB 240-220944/1-A

Instrument Code: H4 Batch No.: 221388

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

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-220944/2-A

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

Sample Matrix: Water

LCS Source: MTHGCALW_01150

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	5.63		113	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.: 240-61849-1

SDG No.: _____

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-220946/1-A	03/10/2016 12:00	220946		50	50
LCS 240-220946/2-A	03/10/2016 12:00	220946		50	50
240-61849-21	03/10/2016 12:00	220946		50	50
240-61849-21 MS	03/10/2016 12:00	220946		50	50
240-61849-21 MSD	03/10/2016 12:00	220946		50	50
240-61849-22	03/10/2016 12:00	220946		50	50
240-61849-23	03/10/2016 12:00	220946		50	50
240-61849-24	03/10/2016 12:00	220946		50	50
240-61849-25	03/10/2016 12:00	220946		50	50
240-61849-26	03/10/2016 12:00	220946		50	50
240-61849-27	03/10/2016 12:00	220946		50	50
240-61849-28	03/10/2016 12:00	220946		50	50
240-61849-29	03/10/2016 12:00	220946		50	50
240-61849-30	03/10/2016 12:00	220946		50	50
240-61849-31	03/10/2016 12:00	220946		50	50
240-61849-32	03/10/2016 12:00	220946		50	50
240-61849-33	03/10/2016 12:00	220946		50	50
240-61849-34	03/10/2016 12:00	220946		50	50
240-61849-35	03/10/2016 12:00	220946		50	50
240-61849-36	03/10/2016 12:00	220946		50	50

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Concentration Units: ug/L Lab Sample ID: MB 240-220946/1-A

Instrument Code: H4 Batch No.: 221388

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

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-220946/2-A

Lab Name: TestAmerica Canton

Job No.: 240-61849-1

Sample Matrix: Water

LCS Source: MTHGCALW_01150

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	5.52		110	80	120		7470A

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

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton

Job Number: 240-61849-1

SDG Number: _____

Matrix: Water

Instrument ID: NOEQUIP

Method: SM 2340B

RL Date: 04/14/2011 14:06

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

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton

Job Number: 240-61849-1

SDG Number: _____

Matrix: Water

Instrument ID: NOEQUIP

Method: SM 2340B

XMDL Date: 04/14/2011 14:07

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Calcium hardness as calcium carbonate		12000	325
Hardness as calcium carbonate		33000	465
Magnesium hardness as calcium carbonate		21000	140

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: NOEQUIP Method: SM 2340B

Start Date: 03/17/2016 13:24 End Date: 03/17/2016 13:24

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				C a c o 3	H a r d c c	M g H A R D															
240-61849-1	1	D	13:24	X	X	X															
240-61849-2	1	D	13:24	X	X	X															
240-61849-3	1	D	13:24	X	X	X															
240-61849-4	1	D	13:24	X	X	X															
240-61849-5	1	D	13:24	X	X	X															
240-61849-6	1	D	13:24	X	X	X															
240-61849-7	1	D	13:24	X	X	X															
240-61849-8	1	D	13:24	X	X	X															
240-61849-9	1	D	13:24	X	X	X															
240-61849-10	1	D	13:24	X	X	X															
240-61849-11	1	D	13:24	X	X	X															
240-61849-12	1	D	13:24	X	X	X															
240-61849-13	1	D	13:24	X	X	X															
240-61849-14	1	D	13:24	X	X	X															
240-61849-15	1	D	13:24	X	X	X															
240-61849-16	1	D	13:24	X	X	X															
240-61849-17	1	D	13:24	X	X	X															
240-61849-18	1	D	13:24	X	X	X															
240-61849-19	1	D	13:24	X	X	X															
240-61849-20	1	D	13:24	X	X	X															
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Prep Types
D = Dissolved

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Instrument ID: NOEQUIP Method: SM 2340B

Start Date: 03/18/2016 17:11 End Date: 03/18/2016 17:11

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				C a c o 3	H a r d c c	M g H A R D															
240-61849-21	1	D	17:11	X	X	X															
240-61849-22	1	D	17:11	X	X	X															
240-61849-23	1	D	17:11	X	X	X															
240-61849-24	1	D	17:11	X	X	X															
240-61849-25	1	D	17:11	X	X	X															
240-61849-26	1	D	17:11	X	X	X															
240-61849-27	1	D	17:11	X	X	X															
240-61849-28	1	D	17:11	X	X	X															
240-61849-29	1	D	17:11	X	X	X															
240-61849-30	1	D	17:11	X	X	X															
240-61849-31	1	D	17:11	X	X	X															
240-61849-32	1	D	17:11	X	X	X															
240-61849-33	1	D	17:11	X	X	X															
240-61849-34	1	D	17:11	X	X	X															
240-61849-35	1	D	17:11	X	X	X															
240-61849-36	1	D	17:11	X	X	X															
ZZZZZZ			17:11																		

Prep Types
D = Dissolved

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Batch Number: 220940 Batch Start Date: 03/10/16 08:38 Batch Analyst: Dillon, William KBatch Method: 3005A Batch End Date: 03/10/16 16:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTICPMS2 00024	MTICPMSA 00026	MTICPMSB 00027	MTTMHCL 00099
MB 240-220940/1		3005A, 6020		50 mL	50 mL				2.5 mL
LCS 240-220940/2		3005A, 6020		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	2.5 mL
240-61849-D-1	MSA-SW37A-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-1	MSA-SW37A-030716	3005A, 6020	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	2.5 mL
MS 240-61849-D-1	MSA-SW37A-030716	3005A, 6020	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	2.5 mL
MSD 240-61849-D-2	MSA-SW37B-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-3	MSA-SW37C-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-4	MSA-SW37D-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-5	MSA-SW38A-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-6	MSA-SW38B-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-7	MSA-SW38C-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-8	MSA-SW38D-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-9	MSA-SW39A-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-10	MSA-SW39B-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-11	MSA-SW39C-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-12	MSA-SW39D-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-13	MSA-SW40A-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-14	MSA-SW40B-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-15	MSA-SW40C-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-16	MSA-SW40D-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-17	MSA-SW41A-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-18	MSA-SW41B-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-19	MSA-SW41C-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-20	MSA-SW41D-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00082				
MB 240-220940/1		3005A, 6020		1 mL				
LCS 240-220940/2		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.: 240-61849-1

SDG No.: _____

Batch Number: 220940 Batch Start Date: 03/10/16 08:38 Batch Analyst: Dillon, William KBatch Method: 3005A Batch End Date: 03/10/16 16:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00082					
240-61849-D-1	MSA-SW37A-030716	3005A, 6020	D	1 mL					
240-61849-D-1 MS	MSA-SW37A-030716	3005A, 6020	D	1 mL					
240-61849-D-1 MSD	MSA-SW37A-030716	3005A, 6020	D	1 mL					
240-61849-D-2	MSA-SW37B-030716	3005A, 6020	D	1 mL					
240-61849-D-3	MSA-SW37C-030716	3005A, 6020	D	1 mL					
240-61849-D-4	MSA-SW37D-030716	3005A, 6020	D	1 mL					
240-61849-D-5	MSA-SW38A-030716	3005A, 6020	D	1 mL					
240-61849-D-6	MSA-SW38B-030716	3005A, 6020	D	1 mL					
240-61849-D-7	MSA-SW38C-030716	3005A, 6020	D	1 mL					
240-61849-D-8	MSA-SW38D-030716	3005A, 6020	D	1 mL					
240-61849-D-9	MSA-SW39A-030716	3005A, 6020	D	1 mL					
240-61849-D-10	MSA-SW39B-030716	3005A, 6020	D	1 mL					
240-61849-D-11	MSA-SW39C-030716	3005A, 6020	D	1 mL					
240-61849-D-12	MSA-SW39D-030716	3005A, 6020	D	1 mL					
240-61849-D-13	MSA-SW40A-030716	3005A, 6020	D	1 mL					
240-61849-D-14	MSA-SW40B-030716	3005A, 6020	D	1 mL					
240-61849-D-15	MSA-SW40C-030716	3005A, 6020	D	1 mL					
240-61849-D-16	MSA-SW40D-030716	3005A, 6020	D	1 mL					
240-61849-D-17	MSA-SW41A-030716	3005A, 6020	D	1 mL					
240-61849-D-18	MSA-SW41B-030716	3005A, 6020	D	1 mL					
240-61849-D-19	MSA-SW41C-030716	3005A, 6020	D	1 mL					
240-61849-D-20	MSA-SW41D-030716	3005A, 6020	D	1 mL					

Batch Notes	
Filter Paper ID	9656618
Hot Block ID	HB1
Pipette ID	MP3
Digestion Tube/Cup ID	1504103

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.: 240-61849-1

SDG No.: _____

Batch Number: 220940 Batch Start Date: 03/10/16 08:38 Batch Analyst: Dillon, William KBatch Method: 3005A Batch End Date: 03/10/16 16:38

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.: 240-61849-1

SDG No.: _____

Batch Number: 220945 Batch Start Date: 03/10/16 08:44 Batch Analyst: Dillon, William K

Batch Method: 3005A Batch End Date: 03/10/16 16:44

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTICPMS2 00024	MTICPMSA 00026	MTICPMSB 00027	MTTMHCL 00099
MB 240-220945/1		3005A, 6020		50 mL	50 mL				2.5 mL
LCS 240-220945/2		3005A, 6020		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	2.5 mL
240-61849-D-21	MSA-SW42A-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-21 MS	MSA-SW42A-030716	3005A, 6020	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	2.5 mL
240-61849-D-21 MSD	MSA-SW42A-030716	3005A, 6020	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	2.5 mL
240-61849-D-22	MSA-SW42B-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-23	MSA-SW42C-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-24	MSA-SW42D-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-25	MSA-SW43A-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-26	MSA-SW43B-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-27	MSA-SW43C-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-28	MSA-SW43D-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-29	MSA-SW44A-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-30	MSA-SW44B-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-31	MSA-SW44C-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-32	MSA-SW44D-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-33	MSA-SW45A-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-34	MSA-SW45B-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-35	MSA-SW45C-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-61849-D-36	MSA-SW45D-030716	3005A, 6020	D	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00082					
MB 240-220945/1		3005A, 6020		1 mL					
LCS 240-220945/2		3005A, 6020		1 mL					
240-61849-D-21	MSA-SW42A-030716	3005A, 6020	D	1 mL					
240-61849-D-21 MS	MSA-SW42A-030716	3005A, 6020	D	1 mL					
240-61849-D-21 MSD	MSA-SW42A-030716	3005A, 6020	D	1 mL					
240-61849-D-22	MSA-SW42B-030716	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.: 240-61849-1

SDG No.: _____

Batch Number: 220945 Batch Start Date: 03/10/16 08:44 Batch Analyst: Dillon, William KBatch Method: 3005A Batch End Date: 03/10/16 16:44

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00082					
240-61849-D-23	MSA-SW42C-030716	3005A, 6020	D	1 mL					
240-61849-D-24	MSA-SW42D-030716	3005A, 6020	D	1 mL					
240-61849-D-25	MSA-SW43A-030716	3005A, 6020	D	1 mL					
240-61849-D-26	MSA-SW43B-030716	3005A, 6020	D	1 mL					
240-61849-D-27	MSA-SW43C-030716	3005A, 6020	D	1 mL					
240-61849-D-28	MSA-SW43D-030716	3005A, 6020	D	1 mL					
240-61849-D-29	MSA-SW44A-030716	3005A, 6020	D	1 mL					
240-61849-D-30	MSA-SW44B-030716	3005A, 6020	D	1 mL					
240-61849-D-31	MSA-SW44C-030716	3005A, 6020	D	1 mL					
240-61849-D-32	MSA-SW44D-030716	3005A, 6020	D	1 mL					
240-61849-D-33	MSA-SW45A-030716	3005A, 6020	D	1 mL					
240-61849-D-34	MSA-SW45B-030716	3005A, 6020	D	1 mL					
240-61849-D-35	MSA-SW45C-030716	3005A, 6020	D	1 mL					
240-61849-D-36	MSA-SW45D-030716	3005A, 6020	D	1 mL					

Batch Notes	
Filter Paper ID	9656618
Hot Block ID	HB1
Pipette ID	MP3
Digestion Tube/Cup ID	1504103

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.: 240-61849-1

SDG No.: _____

Batch Number: 220938 Batch Start Date: 03/10/16 07:25 Batch Analyst: Heakin, DavidBatch Method: 7470A Batch End Date: 03/10/16 09:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00038	MTH2S04 00028	MTHGCALW 01150	MTHgStd 00020
ICV 240-220938/7		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		0.25 mL
ICB 240-220938/8		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		
CRA 240-220938/9		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	0.1 mL	
CCV 240-220938/10		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	
CCB 240-220938/11		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTKMNO4W 00103	MTTMHNO3 00082				
ICV 240-220938/7		7470A, 7470A		7.5 mL	1.25 mL				
ICB 240-220938/8		7470A, 7470A		7.5 mL	1.25 mL				
CRA 240-220938/9		7470A, 7470A		7.5 mL	1.25 mL				
CCV 240-220938/10		7470A, 7470A		7.5 mL	1.25 mL				
CCB 240-220938/11		7470A, 7470A		7.5 mL	1.25 mL				

Batch Notes	
Hot Block ID	C3
Oven, Bath or Block Temperature 1	90 Celsius
Pipette ID	A6, MP1, MP2
Uncorrected Temperature	91 Celsius
Uncorrected Temperature 2	in range Celsius

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

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METALS BATCH WORKSHEET

Lab Name: TestAmerica CantonJob No.: 240-61849-1

SDG No.: _____

Batch Number: 220944Batch Start Date: 03/10/16 12:00Batch Analyst: Dillon, William KBatch Method: 7470ABatch End Date: 03/10/16 14:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00038	MTH2S04 00028	MTHGALW 01150	MTKMNO4W 00103
MB 240-220944/1		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		7.5 mL
LCS 240-220944/2		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	7.5 mL
240-61849-D-1	MSA-SW37A-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-1 MS	MSA-SW37A-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-61849-D-1 MSD	MSA-SW37A-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-61849-D-2	MSA-SW37B-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-3	MSA-SW37C-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-4	MSA-SW37D-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-5	MSA-SW38A-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-6	MSA-SW38B-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-7	MSA-SW38C-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-8	MSA-SW38D-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-9	MSA-SW39A-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-10	MSA-SW39B-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-11	MSA-SW39C-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-12	MSA-SW39D-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-13	MSA-SW40A-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-14	MSA-SW40B-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-15	MSA-SW40C-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-16	MSA-SW40D-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-17	MSA-SW41A-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-18	MSA-SW41B-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-19	MSA-SW41C-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-20	MSA-SW41D-030716	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 00082					
MB 240-220944/1		7470A, 7470A		1.25 mL					
LCS 240-220944/2		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.: 240-61849-1

SDG No.: _____

Batch Number: 220944 Batch Start Date: 03/10/16 12:00 Batch Analyst: Dillon, William KBatch Method: 7470A Batch End Date: 03/10/16 14:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00082					
240-61849-D-1	MSA-SW37A-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-1 MS	MSA-SW37A-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-1 MSD	MSA-SW37A-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-2	MSA-SW37B-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-3	MSA-SW37C-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-4	MSA-SW37D-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-5	MSA-SW38A-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-6	MSA-SW38B-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-7	MSA-SW38C-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-8	MSA-SW38D-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-9	MSA-SW39A-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-10	MSA-SW39B-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-11	MSA-SW39C-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-12	MSA-SW39D-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-13	MSA-SW40A-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-14	MSA-SW40B-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-15	MSA-SW40C-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-16	MSA-SW40D-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-17	MSA-SW41A-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-18	MSA-SW41B-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-19	MSA-SW41C-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-20	MSA-SW41D-030716	7470A, 7470A	D	1.25 mL					

Batch Notes	
Batch Comment	Takeout temps within range
Hot Block ID	B1
Pipette ID	MP1-MP2
Digestion Tube/Cup ID	1504103

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.: 240-61849-1

SDG No.: _____

Batch Number: 220944 Batch Start Date: 03/10/16 12:00 Batch Analyst: Dillon, William KBatch Method: 7470A Batch End Date: 03/10/16 14:00

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 Canton Job No.: 240-61849-1

SDG No.: _____

Batch Number: 220946 Batch Start Date: 03/10/16 12:00 Batch Analyst: Dillon, William K

Batch Method: 7470A Batch End Date: 03/10/16 14:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00038	MTH2S04 00028	MTHGALW 01150	MTKMNO4W 00103
MB 240-220946/1		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		7.5 mL
LCS 240-220946/2		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	7.5 mL
240-61849-D-21	MSA-SW42A-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-21 MS	MSA-SW42A-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-61849-D-21 MSD	MSA-SW42A-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-61849-D-22	MSA-SW42B-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-23	MSA-SW42C-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-24	MSA-SW42D-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-25	MSA-SW43A-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-26	MSA-SW43B-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-27	MSA-SW43C-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-28	MSA-SW43D-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-29	MSA-SW44A-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-30	MSA-SW44B-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-31	MSA-SW44C-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-32	MSA-SW44D-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-33	MSA-SW45A-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-34	MSA-SW45B-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-35	MSA-SW45C-030716	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-61849-D-36	MSA-SW45D-030716	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 00082					
MB 240-220946/1		7470A, 7470A		1.25 mL					
LCS 240-220946/2		7470A, 7470A		1.25 mL					
240-61849-D-21	MSA-SW42A-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-21 MS	MSA-SW42A-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-21 MSD	MSA-SW42A-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-22	MSA-SW42B-030716	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.

7470A

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-61849-1

SDG No.: _____

Batch Number: 220946 Batch Start Date: 03/10/16 12:00 Batch Analyst: Dillon, William KBatch Method: 7470A Batch End Date: 03/10/16 14:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00082					
240-61849-D-23	MSA-SW42C-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-24	MSA-SW42D-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-25	MSA-SW43A-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-26	MSA-SW43B-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-27	MSA-SW43C-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-28	MSA-SW43D-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-29	MSA-SW44A-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-30	MSA-SW44B-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-31	MSA-SW44C-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-32	MSA-SW44D-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-33	MSA-SW45A-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-34	MSA-SW45B-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-35	MSA-SW45C-030716	7470A, 7470A	D	1.25 mL					
240-61849-D-36	MSA-SW45D-030716	7470A, 7470A	D	1.25 mL					

Batch Notes	
Batch Comment	Takeout temps within range
Hot Block ID	C1
Pipette ID	MP1-MP2
Digestion Tube/Cup ID	1504103

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.

7470A

Page 2 of 2



TO: T. APANAVAGE **DATE:** APRIL 11, 2016

FROM: MICHELLE L. ALLEN **COPIES:** DV FILE

SUBJECT: INORGANIC DATA VALIDATION – HEXAVALENT CHROMIUM
LOCKHEED MARTIN CORPORATION (LMC) – MARTIN STATE AIRPORT (MSA)
FROG MORTAR CREEK
SAMPLE DELIVERY GROUP (SDG) 2128376 (TMM-057)

SAMPLES: 35/Aqueous/Hexavalent Chromium

MSA-SW37A-030716	MSA-SW37C-030716	MSA-SW37D-030716
MSA-SW38A-030716	MSA-SW38B-030716	MSA-SW38C-030716
MSA-SW38D-030716	MSA-SW39A-030716	MSA-SW39B-030716
MSA-SW39C-030716	MSA-SW39D-030716	MSA-SW40A-030716
MSA-SW40B-030716	MSA-SW40C-030716	MSA-SW40D-030716
MSA-SW41A-030716	MSA-SW41B-030716	MSA-SW41C-030716
MSA-SW41D-030716	MSA-SW42A-030716	MSA-SW42B-030716
MSA-SW42C-030716	MSA-SW42D-030716	MSA-SW43A-030716
MSA-SW43B-030716	MSA-SW43C-030716	MSA-SW43D-030716
MSA-SW44A-030716	MSA-SW44B-030716	MSA-SW44C-030716
MSA-SW44D-030716	MSA-SW45A-030716	MSA-SW45B-030716
MSA-SW45C-030716	MSA-SW45D-030716	

Overview

The sample set for LMC – MSA Frog Mortar Creek, SDG 2128376 (TMM-057) consisted of thirty-five (35) aqueous environmental samples. All thirty-five (35) 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 March 7, 2016 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, 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

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

Notes

Sample MSA-SW37B-030716 was collected and recorded on the chain of custody document but was not received by the laboratory.

All samples were properly preserved to a pH of 9.0 – 9.5 and analyzed within 24 hours of sample receipt.

The non-detected result was in sample MSA-SW44A-030716 was reported to the RDL.

TO: T. APANAVAGE
SDG: 2128376 (TMM-057)

PAGE 2

Executive Summary

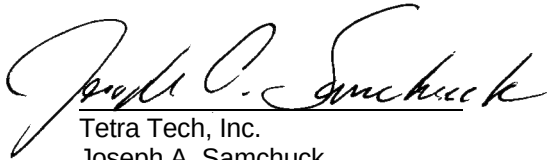
Laboratory Performance: None.

Other Factors Affecting Data Quality: Detected results below the RDL were estimated.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review" (August 2014) and EPA Method 218.6. The text of this report has been formulated to address only those areas affecting data quality.



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



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

Attachments:

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

Appendix A

Qualified Analytical Results

Qualifier Codes:

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

PROJ_NO: 07804 SDG: 2128376 FRACTION: MISCF MEDIA: WATER	NSAMPLE	MSA-SW37A-030716			MSA-SW37C-030716			MSA-SW37D-030716			MSA-SW38A-030716		
	LAB_ID	2128376001			2128376002			2128376003			2128376004		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.12	J	P	0.12	J	P	0.12	J	P	0.13	J	P

PROJ_NO: 07804 SDG: 2128376 FRACTION: MISCF MEDIA: WATER	NSAMPLE	MSA-SW38B-030716			MSA-SW38C-030716			MSA-SW38D-030716			MSA-SW39A-030716		
	LAB_ID	2128376005			2128376006			2128376007			2128376008		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.14	J	P	0.18	J	P	0.13	J	P	0.16	J	P

PROJ_NO: 07804 SDG: 2128376 FRACTION: MISCF MEDIA: WATER	NSAMPLE	MSA-SW39B-030716			MSA-SW39C-030716			MSA-SW39D-030716			MSA-SW40A-030716		
	LAB_ID	2128376009			2128376010			2128376011			2128376012		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.14	J	P	0.16	J	P	0.15	J	P	0.14	J	P

PROJ_NO: 07804 SDG: 2128376 FRACTION: MISCF MEDIA: WATER	NSAMPLE	MSA-SW40B-030716			MSA-SW40C-030716			MSA-SW40D-030716			MSA-SW41A-030716		
	LAB_ID	2128376013			2128376014			2128376015			2128376016		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.17	J	P	0.17	J	P	0.12	J	P	0.12	J	P

PROJ_NO: 07804 SDG: 2128376 FRACTION: MISCF MEDIA: WATER	NSAMPLE	MSA-SW41B-030716			MSA-SW41C-030716			MSA-SW41D-030716			MSA-SW42A-030716		
	LAB_ID	2128376017			2128376018			2128376019			2128376020		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.15	J	P	0.14	J	P	0.14	J	P	0.14	J	P

PROJ_NO: 07804 SDG: 2128376 FRACTION: MISCF MEDIA: WATER	NSAMPLE	MSA-SW42B-030716			MSA-SW42C-030716			MSA-SW42D-030716			MSA-SW43A-030716		
	LAB_ID	2128376021			2128376022			2128376023			2128376024		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.15	J	P	0.13	J	P	0.14	J	P	0.15	J	P

PROJ_NO: 07804 SDG: 2128376 FRACTION: MISCF MEDIA: WATER	NSAMPLE	MSA-SW43B-030716			MSA-SW43C-030716			MSA-SW43D-030716			MSA-SW44A-030716		
	LAB_ID	2128376025			2128376026			2128376027			2128376028		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.13	J	P	0.13	J	P	0.16	J	P	0.25	U	

PROJ_NO: 07804 SDG: 2128376 FRACTION: MISCF MEDIA: WATER	NSAMPLE	MSA-SW44B-030716			MSA-SW44C-030716			MSA-SW44D-030716			MSA-SW45A-030716		
	LAB_ID	2128376029			2128376030			2128376031			2128376032		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016			3/7/2016		
	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		0.14	J	P	0.16	J	P	0.16	J	P	0.15	J	P

PROJ_NO: 07804 SDG: 2128376 FRACTION: MISCF MEDIA: WATER	NSAMPLE	MSA-SW45B-030716			MSA-SW45C-030716			MSA-SW45D-030716		
	LAB_ID	2128376033			2128376034			2128376035		
	SAMP_DATE	3/7/2016			3/7/2016			3/7/2016		
	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.12	J	P	0.12	J	P	0.13	J	P

Appendix B

Results as Reported by the Laboratory

ANALYTICAL RESULTS

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376001** Date Collected: 3/7/2016 13:18 Matrix: Water
Sample ID: **MSA-SW37A-030716** Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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WET CHEMISTRY

Hexavalent Chromium	0.12J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 02:05	MBW	A
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Project Coordinator

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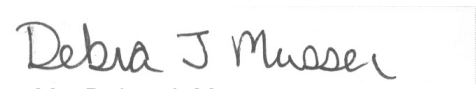
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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376002**
Sample ID: **MSA-SW37C-030716**Date Collected: 3/7/2016 13:30 Matrix: Water
Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.12J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 02:29	MBW	A


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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376003**

Date Collected: 3/7/2016 13:35

Matrix: Water

Sample ID: **MSA-SW37D-030716**

Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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WET CHEMISTRY

Hexavalent Chromium	0.12J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 02:37	MBW	A
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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376004**
Sample ID: **MSA-SW38A-030716**Date Collected: 3/7/2016 12:20 Matrix: Water
Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.13J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 02:44	MBW	A

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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376005**

Date Collected: 3/7/2016 12:25

Matrix: Water

Sample ID: **MSA-SW38B-030716**

Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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WET CHEMISTRY

Hexavalent Chromium	0.14J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 02:52	MBW	A
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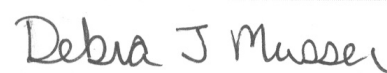
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ANALYTICAL RESULTS

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376006** Date Collected: 3/7/2016 12:27 Matrix: Water
Sample ID: **MSA-SW38C-030716** Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.18J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 03:00	MBW	A



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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376007**

Date Collected: 3/7/2016 12:30

Matrix: Water

Sample ID: **MSA-SW38D-030716**

Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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WET CHEMISTRY

Hexavalent Chromium	0.13J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 03:08	MBW	A
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ANALYTICAL RESULTS

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376008** Date Collected: 3/7/2016 10:24 Matrix: Water
Sample ID: **MSA-SW39A-030716** Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.16J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 03:16	MBW	A



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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376009**

Date Collected: 3/7/2016 10:33

Matrix: Water

Sample ID: **MSA-SW39B-030716**

Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
------------	---------	------	-------	-----	-----	--------	-------------	----------	----	------

WET CHEMISTRY

Hexavalent Chromium	0.14J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 03:24	MBW	A
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Project Coordinator

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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376010**
Sample ID: **MSA-SW39C-030716**Date Collected: 3/7/2016 10:38 Matrix: Water
Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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WET CHEMISTRY

Hexavalent Chromium	0.16J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 03:55	MBW	A
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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376011**

Date Collected: 3/7/2016 10:43

Matrix: Water

Sample ID: **MSA-SW39D-030716**

Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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WET CHEMISTRY

Hexavalent Chromium	0.15J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 04:19	MBW	A
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Ms. Debra J. Musser

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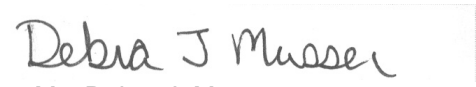
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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376012**
Sample ID: **MSA-SW40A-030716**Date Collected: 3/7/2016 12:40 Matrix: Water
Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.14J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 04:27	MBW	A

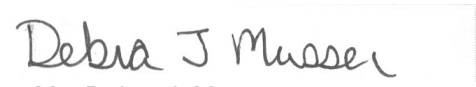

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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376013**
Sample ID: **MSA-SW40B-030716**Date Collected: 3/7/2016 12:43 Matrix: Water
Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.17J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 04:35	MBW	A


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ANALYTICAL RESULTS

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376014** Date Collected: 3/7/2016 12:57 Matrix: Water
Sample ID: **MSA-SW40C-030716** Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.17J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 04:43	MBW	A



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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376015**
Sample ID: **MSA-SW40D-030716**Date Collected: 3/7/2016 12:50 Matrix: Water
Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.12J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 04:51	MBW	A

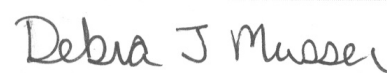
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ANALYTICAL RESULTS

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376016** Date Collected: 3/7/2016 11:55 Matrix: Water
Sample ID: **MSA-SW41A-030716** Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.12J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 04:59	MBW	A



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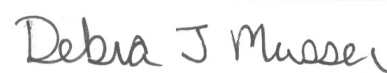
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ANALYTICAL RESULTS

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376017** Date Collected: 3/7/2016 12:00 Matrix: Water
Sample ID: **MSA-SW41B-030716** Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.15J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 05:06	MBW	A



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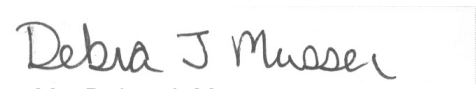
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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376018**
Sample ID: **MSA-SW41C-030716**Date Collected: 3/7/2016 12:05 Matrix: Water
Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.14J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 05:14	MBW	A


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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376019**

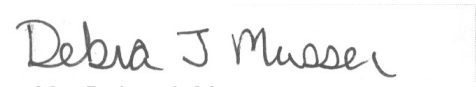
Date Collected: 3/7/2016 12:10

Matrix: Water

Sample ID: **MSA-SW41D-030716**

Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.14J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 06:02	MBW	A


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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376020**

Date Collected: 3/7/2016 13:00

Matrix: Water

Sample ID: **MSA-SW42A-030716**

Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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WET CHEMISTRY

Hexavalent Chromium	0.14J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 06:25	MBW	A
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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376021**

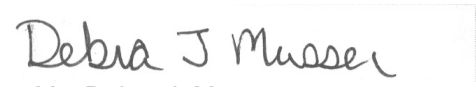
Date Collected: 3/7/2016 13:05

Matrix: Water

Sample ID: **MSA-SW42B-030716**

Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.15J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 06:33	MBW	A


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ANALYTICAL RESULTS

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376022** Date Collected: 3/7/2016 13:10 Matrix: Water
Sample ID: **MSA-SW42C-030716** Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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WET CHEMISTRY

Hexavalent Chromium	0.13J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 06:41	MBW	A
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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376023**

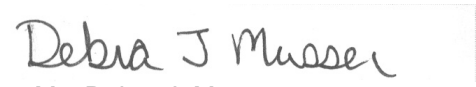
Date Collected: 3/7/2016 13:15

Matrix: Water

Sample ID: **MSA-SW42D-030716**

Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.14J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 06:49	MBW	A


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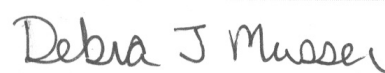
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ANALYTICAL RESULTS

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376024** Date Collected: 3/7/2016 11:33 Matrix: Water
Sample ID: **MSA-SW43A-030716** Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.15J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 06:57	MBW	A



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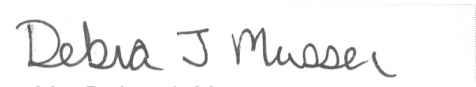
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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376025**
Sample ID: **MSA-SW43B-030716**Date Collected: 3/7/2016 11:40 Matrix: Water
Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.13J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 07:05	MBW	A


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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376026**

Date Collected: 3/7/2016 11:43

Matrix: Water

Sample ID: **MSA-SW43C-030716**

Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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WET CHEMISTRY

Hexavalent Chromium	0.13J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 07:13	MBW	A
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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376027**

Date Collected: 3/7/2016 11:46

Matrix: Water

Sample ID: **MSA-SW43D-030716**

Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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WET CHEMISTRY

Hexavalent Chromium	0.16J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 07:21	MBW	A
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ANALYTICAL RESULTS

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376028** Date Collected: 3/7/2016 11:15 Matrix: Water
Sample ID: **MSA-SW44A-030716** Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.052	EPA 218.6		3/8/16 07:52	MBW	A
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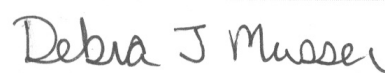
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ANALYTICAL RESULTS

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376029** Date Collected: 3/7/2016 11:20 Matrix: Water
Sample ID: **MSA-SW44B-030716** Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.14J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 08:16	MBW	A



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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376030**

Date Collected: 3/7/2016 11:22

Matrix: Water

Sample ID: **MSA-SW44C-030716**

Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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WET CHEMISTRY

Hexavalent Chromium	0.16J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 08:24	MBW	A
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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376031**

Date Collected: 3/7/2016 11:26

Matrix: Water

Sample ID: **MSA-SW44D-030716**

Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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WET CHEMISTRY

Hexavalent Chromium	0.16J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 08:32	MBW	A
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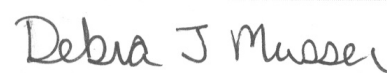
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ANALYTICAL RESULTS

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376032** Date Collected: 3/7/2016 10:50 Matrix: Water
Sample ID: **MSA-SW45A-030716** Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.15J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 08:40	MBW	A



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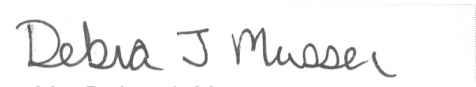
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**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376033**
Sample ID: **MSA-SW45B-030716**Date Collected: 3/7/2016 10:53 Matrix: Water
Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.12J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 08:47	MBW	A

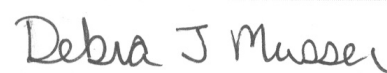

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ANALYTICAL RESULTS

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376034** Date Collected: 3/7/2016 10:58 Matrix: Water
Sample ID: **MSA-SW45C-030716** Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	0.12J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 08:55	MBW	A



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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

**ANALYTICAL RESULTS**

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID: **2128376035**

Date Collected: 3/7/2016 11:03

Matrix: Water

Sample ID: **MSA-SW45D-030716**

Date Received: 3/7/2016 20:05

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
------------	---------	------	-------	-----	-----	--------	-------------	----------	----	------

WET CHEMISTRY

Hexavalent Chromium	0.13J	J	ug/L	0.25	0.052	EPA 218.6		3/8/16 09:03	MBW	A
---------------------	-------	---	------	------	-------	-----------	--	--------------	-----	---

Ms. Debra J. Musser

Project Coordinator

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Appendix C

Support Documentation

DJM



Chain of Custody Record

Client Contact						Project Manager: Tony Apanavage						Site Contact: Tony Apanavage						Date: 3/31/2015						COC No:											
Tetra Tech						Tel/Fax: 301-233-8230 (cell)						Lab Contact:						Carrier: Fedex						1 of 3 COCs											
20251 Century Blvd, Suite 200						Analysis Turnaround Time																													
Germantown, MD 20874						Calendar (C) or Work Days (W)																													
(301) 528-3021 Phone						TAT if different from Below: 3 DAYS																													
(301) 528-3000 FAX						☐ 2 weeks																													
Project Name: MSA Surface Water Sampling						☐ 1 week																													
Site: MSA Frog Mortar Creek						☐ 2 days																													
P O #						☐ 1 day																													
Sample Identification						Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Dissolved Hexavalent Chromium																							
MSA-SW37A-030716						3/7/2016	1318	SW	Water	1	x																								
MSA-SW37B-030716						3/7/2016	1325	SW	Water	1	x																								
MSA-SW37C-030716						3/7/2016	1330	SW	Water	1	x																								
MSA-SW37D-030716						3/7/2016	1335	SW	Water	1	x																								
MSA-SW38A-030716						3/7/2016	1220	SW	Water	1	x																								
MSA-SW38B-030716						3/7/2016	1225	SW	Water	1	x																								
MSA-SW38C-030716						3/7/2016	1227	SW	Water	1	x																								
MSA-SW38D-030716						3/7/2016	1230	SW	Water	1	x																								
MSA-SW39A-030716						3/7/2016	1024	SW	Water	1	x																								
MSA-SW39B-030716						3/7/2016	1033	SW	Water	1	x																								
MSA-SW39C-030716						3/7/2016	1038	SW	Water	1	x																								
MSA-SW39D-030716						3/7/2016	1043	SW	Water	1	x																								
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other																																			
Possible Hazard Identification												Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																							
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐												☒ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months																							
Special Instructions/QC Requirements & Comments: Samples must be analyzed within 24 hours of sample time.																																			
Relinquished by: [Signature]						Company: Tetra Tech						Date/Time: 3-7-16/1600						Received by: [Signature]						Company: ALS						Date/Time: 3/7/16 1724					
Relinquished by: [Signature]						Company: ALS						Date/Time: 3/7/16 1724						Received by: [Signature]						Company: ALS						Date/Time: 3/7/16 1724					
Relinquished by: [Signature]						Company: ALS						Date/Time: 3/7/16 2005						Received by: [Signature]						Company: ALS						Date/Time: 3-7-16 2005					

UMC 03/07/14 2358

Rochester

1565 Jefferson Road, Building 300, Suite 360
Rochester, NY 14623
Phone: +1 585 288 5380 Fax: +1 585 288 8475

Chain of Custody Record



Client Contact		Project Manager: Tony Apanavage		Site Contact: Tony Apanavage		Date: 3/31/2015		COC No:		
Tetra Tech		Tel/Fax: 301-233-8230 (cell)		Lab Contact:		Carrier: Fedex		2 of 3 COCs		
20251 Century Blvd, Suite 200		Analysis Turnaround Time		Filtered Sample Dissolved Hexavalent Chromium		Job No. SDG No. Sampler: S. Geronzi Sample Specific Notes:				
Germantown, MD 20874		Calendar (C) or Work Days (W)								
(301) 528-3021 Phone		TAT if different from Below: 3 DAYS								
(301) 528-3000 FAX		☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day								
Project Name: MSA Surface Water Sampling										
Site: MSA Frog Mortar Creek										
P O #										
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.				
MSA-SW40A-030716		3/7/2016	1240	SW	Water	1				
MSA-SW40B-030716		3/7/2016	1243	SW	Water	1				
MSA-SW40C-030716		3/7/2016	1257	SW	Water	1				
MSA-SW40D-030716		3/7/2016	1250	SW	Water	1				
MSA-SW41A-030716		3/7/2016	1155	SW	Water	1				
MSA-SW41B-030716		3/7/2016	1200	SW	Water	1				
MSA-SW41C-030716		3/7/2016	1205	SW	Water	1				
MSA-SW41D-030716		3/7/2016	1210	SW	Water	1				
MSA-SW42A-030716		3/7/2016	1300	SW	Water	1				
MSA-SW42B-030716		3/7/2016	1305	SW	Water	1				
MSA-SW42C-030716		3/7/2016	1310	SW	Water	1				
MSA-SW42D-030716		3/7/2016	1315	SW	Water	1				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other										
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months			
Special Instructions/QC Requirements & Comments: Samples must be analyzed within 24 hours of sample time.										
Relinquished by:		Company:		Date/Time:		Received by:		Date/Time:		
		Tetra Tech		3-7-16/1600				3/7/16 1724		
Relinquished by:		Company:		Date/Time:		Received by:		Date/Time:		
		ALS		3/7/16 1724				3/7/16 1724		
Relinquished by:		Company:		Date/Time:		Received by:		Date/Time:		
		ALS		3/7/16 2005				3-7-16 172005		

LMC 03/07/16 2358

Rochester

1565 Jefferson Road, Building 300, Suite 360
Rochester, NY 14623
Phone: +1 585 288 5380 Fax: +1 585 288 8475

Chain of Custody Record



Client Contact		Project Manager: Tony Apanavage		Site Contact: Tony Apanavage		Date: 3/31/2015		COC No:			
Tetra Tech		Tel/Fax: 301-233-8230 (cell)		Lab Contact:		Carrier: Fedex		3 of 3 COCs			
20251 Century Blvd, Suite 200		Analysis Turnaround Time		Filtered Sample ☐ Dissolved Hexavalent Chromium ☐				Job No.			
Germantown, MD 20874		Calendar (C) or Work Days (W)						SDG No.			
(301) 528-3021 Phone		TAT if different from Below: 3 DAYS						Sampler: <i>J. Lerner</i>			
(301) 528-3000 FAX		☐ 2 weeks						Sample Specific Notes:			
Project Name: MSA Surface Water Sampling		☐ 1 week									
Site: MSA Frog Mortar Creek		☐ 2 days									
P O #		☐ 1 day									
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.					
MSA-SW43A-030716	3/7/2016	1133	SW	Water	1	x					
MSA-SW43B-030716	3/7/2016	1140	SW	Water	1	x					
MSA-SW43C-030716	3/7/2016	1143	SW	Water	1	x					
MSA-SW43D-030716	3/7/2016	1146	SW	Water	1	x					
MSA-SW44A-030716	3/7/2016	1115	SW	Water	1	x					
MSA-SW44B-030716	3/7/2016	1120	SW	Water	1	x					
MSA-SW44C-030716	3/7/2016	1122	SW	Water	1	x					
MSA-SW44D-030716	3/7/2016	1126	SW	Water	1	x					
MSA-SW45A-030716	3/7/2016	1050	SW	Water	1	x					
MSA-SW45B-030716	3/7/2016	1053	SW	Water	1	x					
MSA-SW45C-030716	3/7/2016	1058	SW	Water	1	x					
MSA-SW45D-030716	3/7/2016	1103	SW	Water	1	x					
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____											
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months				
Special Instructions/QC Requirements & Comments: Samples must be analyzed within 24 hours of sample time.											
Relinquished by: <i>[Signature]</i>		Company: Tetra Tech		Date/Time: 3-7-16/1600		Received by: <i>[Signature]</i>		Company: ALS		Date/Time: 3/7/16 1724	
Relinquished by: <i>[Signature]</i>		Company: ALS		Date/Time: 3/7/16 1724		Received by: <i>[Signature]</i>		Company: ALS		Date/Time: 3/7/16 1724	
Relinquished by: <i>[Signature]</i>		Company: ALS		Date/Time: 3/7/16 2005		Received by: <i>[Signature]</i>		Company: ALS		Date/Time: 3-7-16 2005	

UMG 03/07/16 2358

Tetra Tech, Inc.
MSA Surface Water Testing

ALS-Middletown
Case Narrative
TMM-057

Sample Management

This report contains the results of the analysis of thirty-five (35) water samples collected on March 7, 2016. Analytical results and quality control information are summarized in this data package.

Sample Receipt

Samples arrived at ALS via courier on March 7, 2016. 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-five (35) aqueous samples were analyzed for hexavalent chromium by EPA Method 218.6. The samples were filtered, preserved, and analyzed within the 24-hour holding period established by the client for the method. The COC form included one sample, MSA-SW37B-030716, that was not received at the laboratory for testing.

Calibration. A calibration was properly established. 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 in the blanks.

Laboratory Control Samples. Laboratory control samples, identified as 2307192, 2307194, 2307208, and 2307210, were analyzed initially and every 20 samples. The recovery was within the QC limits.

Spikes. Matrix spike and matrix spike duplicate analyses were performed on sample 2128376001 (MSA-SW37A-030716). The spike recoveries and relative percent difference between the spikes were all within the QC limits.

Matrix spike and matrix spike duplicate analyses were performed on sample 2128376010 (MSA-SW39C-030716). The spike recoveries and the relative percent difference between the spikes were all within the QC limits.

Matrix spike and matrix spike duplicate analyses were performed on sample 2128376019 (MSA-SW41D-030716). The spike recoveries and the relative percent difference between the spikes were all within the QC limits.

Matrix spike and matrix spike duplicate analyses were performed on sample 2128376028 (MSA-SW44A-030716). The spike recoveries and the relative percent difference between the spikes were all within the QC limits.

I Jennifer M. Lamoreux, as the designated Quality Assurance Officer, hereby attest that all electronic deliverables have been thoroughly reviewed and are in agreement with the associated hardcopy data. The enclosed electronic files have been reviewed for accuracy (including significant figures), completeness and format. The laboratory will be responsible for any labor time necessary to correct enclosed electronic deliverables that have been found to be in error. I can be reached at (717) 944 - 5541 if there are any questions or problems with the enclosed electronic deliverables.

Signature:  Title: Reporting Manager Date: 3/18/2016

SAMPLE SUMMARY

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2128376001	MSA-SW37A-030716	Water	3/7/2016 13:18	3/7/2016 20:05	Collected by Client
2128376002	MSA-SW37C-030716	Water	3/7/2016 13:30	3/7/2016 20:05	Collected by Client
2128376003	MSA-SW37D-030716	Water	3/7/2016 13:35	3/7/2016 20:05	Collected by Client
2128376004	MSA-SW38A-030716	Water	3/7/2016 12:20	3/7/2016 20:05	Collected by Client
2128376005	MSA-SW38B-030716	Water	3/7/2016 12:25	3/7/2016 20:05	Collected by Client
2128376006	MSA-SW38C-030716	Water	3/7/2016 12:27	3/7/2016 20:05	Collected by Client
2128376007	MSA-SW38D-030716	Water	3/7/2016 12:30	3/7/2016 20:05	Collected by Client
2128376008	MSA-SW39A-030716	Water	3/7/2016 10:24	3/7/2016 20:05	Collected by Client
2128376009	MSA-SW39B-030716	Water	3/7/2016 10:33	3/7/2016 20:05	Collected by Client
2128376010	MSA-SW39C-030716	Water	3/7/2016 10:38	3/7/2016 20:05	Collected by Client
2128376011	MSA-SW39D-030716	Water	3/7/2016 10:43	3/7/2016 20:05	Collected by Client
2128376012	MSA-SW40A-030716	Water	3/7/2016 12:40	3/7/2016 20:05	Collected by Client
2128376013	MSA-SW40B-030716	Water	3/7/2016 12:43	3/7/2016 20:05	Collected by Client
2128376014	MSA-SW40C-030716	Water	3/7/2016 12:57	3/7/2016 20:05	Collected by Client
2128376015	MSA-SW40D-030716	Water	3/7/2016 12:50	3/7/2016 20:05	Collected by Client
2128376016	MSA-SW41A-030716	Water	3/7/2016 11:55	3/7/2016 20:05	Collected by Client
2128376017	MSA-SW41B-030716	Water	3/7/2016 12:00	3/7/2016 20:05	Collected by Client
2128376018	MSA-SW41C-030716	Water	3/7/2016 12:05	3/7/2016 20:05	Collected by Client
2128376019	MSA-SW41D-030716	Water	3/7/2016 12:10	3/7/2016 20:05	Collected by Client
2128376020	MSA-SW42A-030716	Water	3/7/2016 13:00	3/7/2016 20:05	Collected by Client
2128376021	MSA-SW42B-030716	Water	3/7/2016 13:05	3/7/2016 20:05	Collected by Client
2128376022	MSA-SW42C-030716	Water	3/7/2016 13:10	3/7/2016 20:05	Collected by Client
2128376023	MSA-SW42D-030716	Water	3/7/2016 13:15	3/7/2016 20:05	Collected by Client
2128376024	MSA-SW43A-030716	Water	3/7/2016 11:33	3/7/2016 20:05	Collected by Client
2128376025	MSA-SW43B-030716	Water	3/7/2016 11:40	3/7/2016 20:05	Collected by Client
2128376026	MSA-SW43C-030716	Water	3/7/2016 11:43	3/7/2016 20:05	Collected by Client
2128376027	MSA-SW43D-030716	Water	3/7/2016 11:46	3/7/2016 20:05	Collected by Client
2128376028	MSA-SW44A-030716	Water	3/7/2016 11:15	3/7/2016 20:05	Collected by Client
2128376029	MSA-SW44B-030716	Water	3/7/2016 11:20	3/7/2016 20:05	Collected by Client
2128376030	MSA-SW44C-030716	Water	3/7/2016 11:22	3/7/2016 20:05	Collected by Client
2128376031	MSA-SW44D-030716	Water	3/7/2016 11:26	3/7/2016 20:05	Collected by Client
2128376032	MSA-SW45A-030716	Water	3/7/2016 10:50	3/7/2016 20:05	Collected by Client
2128376033	MSA-SW45B-030716	Water	3/7/2016 10:53	3/7/2016 20:05	Collected by Client
2128376034	MSA-SW45C-030716	Water	3/7/2016 10:58	3/7/2016 20:05	Collected by Client

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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

SAMPLE SUMMARY

Workorder: 2128376 TMM057|MSASurfaceWaterSampling

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2128376035	MSA-SW45D-030716	Water	3/7/2016 11:03	3/7/2016 20:05	Collected by Client

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".

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

Form 4B

Inorganic Blank Summary

Analysis Method: EPA 218.6
Instrument: IC-4

SDG No.: TMM057

[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.: TMM057
 Units: ug/L
 Lab Sample ID: 2128376001
 Lab MS Sample ID: 2307195
 Lab MSD Sample ID: 2307196

Analyte	Spike Added	Sample Concentration	MS Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)
Hexavalent Chromium	5	0.12	4.7	91.4		90 - 110

Analyte	Spike Added	MSD Concentration	MSD Recovery (%)	(1)	Acceptable Limits (%)	RPD (%)	(1)	Acc. Lim. (%)
Hexavalent Chromium	5	4.8	93.8		90 - 110	2.53		20

(1) The following qualifiers are used:

* : Values outside of acceptable limits
 D : Spikes diluted out

Comments:

Form 3A

Matrix Spike and Matrix Spike Duplicate Recovery Summary

Analysis Method: EPA 218.6
 Matrix (soil/water): Water

SDG No.: TMM057
 Units: ug/L
 Lab Sample ID: 2128376010
 Lab MS Sample ID: 2307199
 Lab MSD Sample ID: 2307200

Analyte	Spike Added	Sample Concentration	MS Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)
Hexavalent Chromium	5	0.16	4.9	95.6		90 - 110

Analyte	Spike Added	MSD Concentration	MSD Recovery (%)	(1)	Acceptable Limits (%)	RPD (%)	(1)	Acc. Lim. (%)
Hexavalent Chromium	5	4.8	92.5		90 - 110	3.19		20

(1) The following qualifiers are used:

* : Values outside of acceptable limits
 D : Spikes diluted out

Comments:

Form 3A

Matrix Spike and Matrix Spike Duplicate Recovery Summary

Analysis Method: EPA 218.6
 Matrix (soil/water): Water

SDG No.: TMM057
 Units: ug/L
 Lab Sample ID: 2128376019
 Lab MS Sample ID: 2307211
 Lab MSD Sample ID: 2307212

Analyte	Spike Added	Sample Concentration	MS Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)
Hexavalent Chromium	5	0.14	4.8	92.4		90 - 110

Analyte	Spike Added	MSD Concentration	MSD Recovery (%)	(1)	Acceptable Limits (%)	RPD (%)	(1)	Acc. Lim. (%)
Hexavalent Chromium	5	5.0	96.1		90 - 110	3.83		20

(1) The following qualifiers are used:

* : Values outside of acceptable limits
 D : Spikes diluted out

Comments:

Form 3A

Matrix Spike and Matrix Spike Duplicate Recovery Summary

Analysis Method: EPA 218.6
 Matrix (soil/water): Water

SDG No.: TMM057
 Units: ug/L
 Lab Sample ID: 2128376028
 Lab MS Sample ID: 2307215
 Lab MSD Sample ID: 2307216

Analyte	Spike Added	Sample Concentration	MS Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)
Hexavalent Chromium	5	0.0	5.1	102		90 - 110

Analyte	Spike Added	MSD Concentration	MSD Recovery (%)	(1)	Acceptable Limits (%)	RPD (%)	(1)	Acc. Lim. (%)
Hexavalent Chromium	5	4.8	96.9		90 - 110	5.36		20

(1) The following qualifiers are used:

* : Values outside of acceptable limits
 D : Spikes diluted out

Comments:

Form 6B

SDG No.: TMM057

Units: ug/L

[illegible]

(1) The following qualifiers are used:

* : Values outside of acceptable limits

Comments:

Sequence: 4-030816
Operator: almdt.nouser

Page 2 of 6
Printed: 3/8/2016 3:41:43 AM

Title: 4-030816

Datasource: WETCHEMIC
Location: ICS2100\ICS2100 Sequence\Cr +6\2016\4-1603
Timebase: ICS2100
#Samples: 68

Created: 3/7/2016 11:59:42 PM by almdt.nouser
Last Update: 3/8/2016 3:41:37 AM by almdt.nouser

No.	Pos.	Name	*DilutionFactor	*SampleType	Comment	Program	Method	*Analyst	*Batch
1	1	Cal Std 1	1	CAL		cr+6	218_6_030816	MBW	
2	2	Cal Std 2	1	CAL		cr+6	218_6_030816	MBW	
3	3	Cal Std 3	1	CAL		cr+6	218_6_030816	MBW	
4	4	Cal Std 4	1	CAL		cr+6	218_6_030816	MBW	
5	5	Cal Std 5	1	CAL		cr+6	218_6_030816	MBW	
6	6	Cal Std 6	1	CAL		cr+6	218_6_030816	MBW	
7	7	2307191	1	MB	LRB	cr+6	218_6_030816	MBW	166959
8	8	2307192	1	MRL	MRL	cr+6	218_6_030816	MBW	166959
9	9	2307193	1	CCVL	LFB	cr+6	218_6_030816	MBW	166959
10	10	2307194	1	LCS	QCS	cr+6	218_6_030816	MBW	166959
11	11	2128376001	1	SAMPLE		cr+6	218_6_030816	MBW	166959
12	12	2307195	1	MS		cr+6	218_6_030816	MBW	166959
13	13	2307196	1	MSD		cr+6	218_6_030816	MBW	166959
14	14	2128376002	1	SAMPLE		cr+6	218_6_030816	MBW	166959
15	15	2128376003	1	SAMPLE		cr+6	218_6_030816	MBW	166959
16	16	2128376004	1	SAMPLE		cr+6	218_6_030816	MBW	166959
17	17	2128376005	1	SAMPLE		cr+6	218_6_030816	MBW	166959
18	18	2128376006	1	SAMPLE		cr+6	218_6_030816	MBW	166959
19	19	2128376007	1	SAMPLE		cr+6	218_6_030816	MBW	166959
20	20	2128376008	1	SAMPLE		cr+6	218_6_030816	MBW	166959
21	21	2128376009	1	SAMPLE		cr+6	218_6_030816	MBW	166959
22	22	2128376006-DUP	1	DUP		cr+6	218_6_030816	MBW	166959
23	23	2307197	1	CCVH		cr+6	218_6_030816	MBW	166959
24	24	2307198	1	BLANK		cr+6	218_6_030816	MBW	166959
25	25	2128376010	1	SAMPLE		cr+6	218_6_030816	MBW	166959
26	26	2307199	1	MS		cr+6	218_6_030816	MBW	166959
27	27	2307200	1	MSD		cr+6	218_6_030816	MBW	166959
28	28	2128376011	1	SAMPLE		cr+6	218_6_030816	MBW	166959
29	29	2128376012	1	SAMPLE		cr+6	218_6_030816	MBW	166959
30	30	2128376013	1	SAMPLE		cr+6	218_6_030816	MBW	166959
31	31	2128376014	1	SAMPLE		cr+6	218_6_030816	MBW	166959
32	32	2128376015	1	SAMPLE		cr+6	218_6_030816	MBW	166959
33	33	2128376016	1	SAMPLE		cr+6	218_6_030816	MBW	166959
34	34	2128376017	1	SAMPLE		cr+6	218_6_030816	MBW	166959
35	35	2128376018	1	SAMPLE		cr+6	218_6_030816	MBW	166959
36	36	2128376018-DUP	1	DUP		cr+6	218_6_030816	MBW	166959
37	37	2307207	1	MB	LRB	cr+6	218_6_030816	MBW	166961
38	38	2307208	1	MRL	MRL	cr+6	218_6_030816	MBW	166961
39	39	2307209	1	CCVL	LFB	cr+6	218_6_030816	MBW	166961
40	40	2307210	1	LCS	QCS	cr+6	218_6_030816	MBW	166961
41	41	2128376019	1	SAMPLE		cr+6	218_6_030816	MBW	166961

Sequence: 4-030816
Operator: almdt.nouser

Page 5 of 6
Printed: 3/8/2016 3:41:48 AM

Title: 4-030816

Datasource: WETCHEMIC

Location: ICS2100\ICS2100 Sequence\Cr +6\2016\4-1603

Timebase: ICS2100

#Samples: 68

Created: 3/7/2016 11:59:42 PM by almdt.nouser

Last Update: 3/8/2016 3:41:37 AM by almdt.nouser

No.	Pos.	Name	*DilutionFactor	*SampleType	Comment	Program	Method	*Analyst	*Batch
42	42	2307211	1	MS		cr+6	218_6_030816	MBW	166961
43	43	2307212	1	MSD		cr+6	218_6_030816	MBW	166961
44	44	2128376020	1	SAMPLE		cr+6	218_6_030816	MBW	166961
45	45	2128376021	1	SAMPLE		cr+6	218_6_030816	MBW	166961
46	46	2128376022	1	SAMPLE		cr+6	218_6_030816	MBW	166961
47	47	2128376023	1	SAMPLE		cr+6	218_6_030816	MBW	166961
48	48	2128376024	1	SAMPLE		cr+6	218_6_030816	MBW	166961
49	49	2128376025	1	SAMPLE		cr+6	218_6_030816	MBW	166961
50	50	2128376026	1	SAMPLE		cr+6	218_6_030816	MBW	166961
51	1	2128376027	1	SAMPLE		cr+6	218_6_030816	MBW	166961
52	2	2128376027-DUP	1	DUP		cr+6	218_6_030816	MBW	166961
53	3	2307213	1	CCVH		cr+6	218_6_030816	MBW	166961
54	4	2307214	1	MB		cr+6	218_6_030816	MBW	166961
55	5	2128376028	1	SAMPLE		cr+6	218_6_030816	MBW	166961
56	6	2307215	1	MS		cr+6	218_6_030816	MBW	166961
57	7	2307216	1	MSD		cr+6	218_6_030816	MBW	166961
58	8	2128376029	1	SAMPLE		cr+6	218_6_030816	MBW	166961
59	9	2128376030	1	SAMPLE		cr+6	218_6_030816	MBW	166961
60	10	2128376031	1	SAMPLE		cr+6	218_6_030816	MBW	166961
61	11	2128376032	1	SAMPLE		cr+6	218_6_030816	MBW	166961
62	12	2128376033	1	SAMPLE		cr+6	218_6_030816	MBW	166961
63	13	2128376034	1	SAMPLE		cr+6	218_6_030816	MBW	166961
64	14	2128376035	1	SAMPLE		cr+6	218_6_030816	MBW	166961
65	15	2128376035-DUP	1	DUP		cr+6	218_6_030816	MBW	166961
66	16	2307217	1	CCVL		cr+6	218_6_030816	MBW	166961
67	17	2307218	1	MB		cr+6	218_6_030816	MBW	166961
68	18	SHUTDOWN		MISC		shutdownCR6	218_6_030816	MBW	166961

Cr+6 218.6 pH Filtration Prep

[illegible]

Tech: MBW

Batch: 166959

Cr+6 Buffer: WR160308002

Reviewed date: 3/8/16

An "X" in the Final pH column indicates that the sample pH is within this range.

Cr+6 218.6 pH Filtration Prep

[illegible]

Date: 3.08.2016

Tech: MBW

Queue: WETC

Batch: 166961

Reagent:

Cr+6 Buffer: WR160308002

Reviewed by: AGM

Reviewed date: 3/8/16

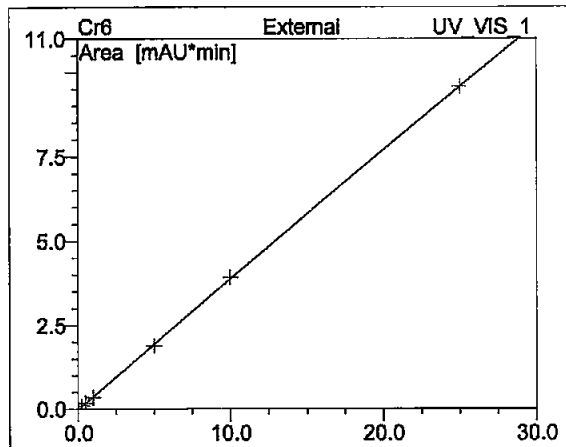
Comments:

An "X" in the Final pH column indicates that the sample pH is within this range.

Adjusted with "None" indicates sample was received at laboratory already within required pH range.

Calibration Batch Report

Sequence:	4-030816	Instrument:	IC-4
Instrument Method:	cr+6	Initial Cal:	030816
Inl. Date/Time:	03/08/16 01:33	Method:	218 6 030816



No.	Ret. Time min	Peak Name	Cal. Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff. Det. %
1	3.90	Cr6	0QOff	6	-0.026	0.396	0.000	99.9922
AVERAGE:					-0.0260	0.3960	-0.0005	99.9922

APPENDIX C—CHEMICAL RESULTS DATA TABLE

Table C-1
Chemical Results for Surface Water Samples - March 2016
Frog Mortar Creek
Lockheed Martin, Martin State Airport, Middle River, Maryland
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LOCATION SAMPLE ID SAMPLE DATE	EL-SW01A EL-SW01A-030716 20160307	EL-SW01B EL-SW01B-030716 20160307	EL-SW01C EL-SW01C-030716 20160307	EL-SW01D EL-SW01D-030716 20160307	MSA-SW37A MSA-SW37A-030716 20160307	MSA-SW37B MSA-SW37B-030716 20160307	MSA-SW37C MSA-SW37C-030716 20160307
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
CHLOROFORM	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
CHLOROMETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
CIS-1,2-DICHLOROETHENE	0.26 U	0.26 U	0.26 U	0.26 U	2.9	2.7	1.1
CIS-1,3-DICHLOROPROPENE	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
DIBROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
DICHLORODIFLUOROMETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
DIISOPROPYL ETHER	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYL TERT-BUTYL ETHER	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
ETHYLBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HEXACHLOROBUTADIENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
ISOPROPYLBENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
M+P-XYLENES	0.24 U	0.26 J	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
N-BUTYLBENZENE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
N-PROPYLBENZENE	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
O-XYLENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
SEC-BUTYLBENZENE	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
STYRENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
TERT-AMYL METHYL ETHER	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TERT-BUTYLBENZENE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
TERTIARY-BUTYL ALCOHOL	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
TETRACHLOROETHENE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
TOLUENE	0.23 U	0.43 J	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
TOTAL XYLENES	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
TRANS-1,2-DICHLOROETHENE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TRANS-1,3-DICHLOROPROPENE	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
TRICHLOROETHENE	0.22 U	0.22 U	0.22 U	0.22 U	0.99 J	3.1	1.4
TRICHLOROFLUOROMETHANE	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
VINYL ACETATE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
VINYL CHLORIDE	0.29 U	0.29 U	0.29 U	0.29 U	3	1.2	0.45 J

Table C-1
Chemical Results for Surface Water Samples - March 2016
Frog Mortar Creek
Lockheed Martin, Martin State Airport, Middle River, Maryland
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LOCATION SAMPLE ID SAMPLE DATE	EL-SW01A EL-SW01A-030716 20160307	EL-SW01B EL-SW01B-030716 20160307	EL-SW01C EL-SW01C-030716 20160307	EL-SW01D EL-SW01D-030716 20160307	MSA-SW37A MSA-SW37A-030716 20160307	MSA-SW37B MSA-SW37B-030716 20160307	MSA-SW37C MSA-SW37C-030716 20160307
TENTATIVELY IDENTIFIED COMPOUNDS- VOLATILES (UG/L)							
(1S,2R)-(+)-NOREPHEDRINE	NA	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (UG/L)							
ANTIMONY	NA	NA	NA	NA	0.2 J	0.22 J	0.16 J
ARSENIC	NA	NA	NA	NA	0.94 J	0.9 J	0.72 J
BARIUM	NA	NA	NA	NA	21	20	21
BERYLLIUM	NA	NA	NA	NA	0.98 U	1.7	0.85 U
CADMIUM	NA	NA	NA	NA	0.26 U	0.28 U	0.14 U
CHROMIUM	NA	NA	NA	NA	0.6 U	0.6 U	0.6 U
COBALT	NA	NA	NA	NA	0.66 U	0.67 U	0.42 U
COPPER	NA	NA	NA	NA	2.3	2.6	2.7
LEAD	NA	NA	NA	NA	0.24 U	0.3 U	0.16 U
MERCURY	NA	NA	NA	NA	0.09 U	0.09 U	0.09 U
MOLYBDENUM	NA	NA	NA	NA	1.1 J	0.99 J	0.94 J
NICKEL	NA	NA	NA	NA	0.88 J	0.7 J	0.53 J
SELENIUM	NA	NA	NA	NA	1.4 U	1.2 U	0.55 U
SILVER	NA	NA	NA	NA	0.02 U	0.025 U	0.02 U
THALLIUM	NA	NA	NA	NA	0.18 U	0.2 U	0.074 U
TUNGSTEN	NA	NA	NA	NA	0.5 U	0.5 J	0.5 U
VANADIUM	NA	NA	NA	NA	0.43 J	0.49 J	0.32 J
ZINC	NA	NA	NA	NA	7.3 U	7.3 U	7.3 U
MISCELLANEOUS PARAMETERS (MG/L)							
CALCIUM HARDNESS AS CaCO ₃	NA	NA	NA	NA	110	98	97
HARDNESS AS CaCO ₃	NA	NA	NA	NA	410	380	370
MAGNESIUM HARDNESS AS CaCO ₃	NA	NA	NA	NA	310	280	270
FILTERED MISCELLANEOUS (UG/L)							
HEXAVALENT CHROMIUM	NA	NA	NA	NA	0.12 J	NA	0.12 J

CaCO₃ - calcium carbonate

EL - Edwards Lane

UG/L - micrograms per liter

MG/L - milligrams per liter

MSA - Martin State Airport

SW - surface water

J - estimated concentration

NA - not analyzed

U - not detected at the concentration left of the letter

UJ - not detected. Result is estimated.

UR - not detected. Result not reliable.

Table C-1
Chemical Results for Surface Water Samples - March 2016
Frog Mortar Creek
Lockheed Martin, Martin State Airport, Middle River, Maryland
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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW37D MSA-SW37D-030716 20160307	MSA-SW38A MSA-SW38A-030716 20160307	MSA-SW38B MSA-SW38B-030716 20160307	MSA-SW38C MSA-SW38C-030716 20160307	MSA-SW38D MSA-SW38D-030716 20160307	MSA-SW39A MSA-SW39A-030716 20160307
VOLATILES (UG/L)						
1,1,1,2-TETRACHLOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1,1-TRICHLOROETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2,2-TETRACHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,1-DICHLOROETHANE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-DICHLOROETHENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,1-DICHLOROPROPENE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,2,3-TRICHLOROBENZENE	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
1,2,3-TRICHLOROPROPANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,2,3-TRIMETHYLBENZENE	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
1,2,4-TRICHLOROBENZENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,2,4-TRIMETHYLBENZENE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,2-DIBROMO-3-CHLOROPROPANE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2-DIBROMOETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,2-DICHLOROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,2-DICHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2-DICHLOROPROPANE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-DICHLOROBENZENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,3-DICHLOROPROPANE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,4-DICHLOROBENZENE	0.27 U	0.35 J	0.27 U	0.27 U	0.27 U	0.27 U
2,2-DICHLOROPROPANE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2-BUTANONE	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
2-CHLOROETHYL VINYL ETHER	0.59 UR	0.59 UR	0.59 UR	0.59 UR	0.59 UR	0.59 UR
2-CHLOROTOLUENE	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-HEXANONE	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
4-CHLOROTOLUENE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
4-ISOPROPYLTOLUENE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
4-METHYL-2-PENTANONE	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U
ACETONE	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U
BENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
BROMOBENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
BROMOCHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMODICHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
BROMOFORM	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
BROMOMETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
CARBON DISULFIDE	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CARBON TETRACHLORIDE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
CHLOROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
CHLORODIBROMOMETHANE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U

Table C-1
Chemical Results for Surface Water Samples - March 2016
Frog Mortar Creek
Lockheed Martin, Martin State Airport, Middle River, Maryland
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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW37D MSA-SW37D-030716 20160307	MSA-SW38A MSA-SW38A-030716 20160307	MSA-SW38B MSA-SW38B-030716 20160307	MSA-SW38C MSA-SW38C-030716 20160307	MSA-SW38D MSA-SW38D-030716 20160307	MSA-SW39A MSA-SW39A-030716 20160307
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
CHLOROFORM	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
CHLOROMETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
CIS-1,2-DICHLOROETHENE	0.73 J	9.5	3.3	1.2	0.3 J	0.26 U
CIS-1,3-DICHLOROPROPENE	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
DIBROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
DICHLORODIFLUOROMETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
DIISOPROPYL ETHER	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYL TERT-BUTYL ETHER	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
ETHYLBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HEXACHLOROBUTADIENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
ISOPROPYLBENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
M+P-XYLENES	0.24 U	0.54 J	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
N-BUTYLBENZENE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
N-PROPYLBENZENE	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
O-XYLENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
SEC-BUTYLBENZENE	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
STYRENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
TERT-AMYL METHYL ETHER	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TERT-BUTYLBENZENE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
TERTIARY-BUTYL ALCOHOL	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
TETRACHLOROETHENE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
TOLUENE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
TOTAL XYLENES	0.52 U	0.54 J	0.52 U	0.52 U	0.52 U	0.52 U
TRANS-1,2-DICHLOROETHENE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TRANS-1,3-DICHLOROPROPENE	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
TRICHLOROETHENE	1	6.5	4	2.1	0.42 J	0.22 U
TRICHLOROFLUOROMETHANE	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
VINYL ACETATE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
VINYL CHLORIDE	0.3 J	11	0.56	0.32 J	0.29 U	0.29 U

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Chemical Results for Surface Water Samples - March 2016
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LOCATION	MSA-SW37D	MSA-SW38A	MSA-SW38B	MSA-SW38C	MSA-SW38D	MSA-SW39A
SAMPLE ID	MSA-SW37D-030716	MSA-SW38A-030716	MSA-SW38B-030716	MSA-SW38C-030716	MSA-SW38D-030716	MSA-SW39A-030716
SAMPLE DATE	20160307	20160307	20160307	20160307	20160307	20160307
TENTATIVELY IDENTIFIED COMPOUNDS-VOLATILES (UG/L)						
(1S,2R)-(+)-NOREPHEDRINE	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (UG/L)						
ANTIMONY	0.16 J	0.16 J	0.17 J	0.16 U	0.16 U	0.16 U
ARSENIC	0.7 J	0.64 J	0.59 J	0.7 J	0.77 J	0.51 J
BARIUM	21	21	20	20	20	19
BERYLLIUM	0.82 U	0.6 U	0.58 U	0.5 U	0.39 U	0.46 U
CADMIUM	0.096 U	0.18 U	0.12 U	0.071 U	0.061 U	0.061 U
CHROMIUM	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
COBALT	0.32 U	0.83 U	0.55 U	0.3 U	0.22 U	0.26 U
COPPER	2	2.5	2.1	1.8 J	1.8 J	2
LEAD	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
MERCURY	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
MOLYBDENUM	0.97 J	0.93 J	0.96 J	0.98 J	0.89 J	0.86 J
NICKEL	0.25 J	0.69 J	0.25 J	0.23 U	0.23 U	0.34 J
SELENIUM	0.59 U	0.47 U	0.25 U	0.7 U	0.72 U	0.43 U
SILVER	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
THALLIUM	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
TUNGSTEN	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VANADIUM	0.38 J	0.23 U	0.27 J	0.25 J	0.37 J	0.23 U
ZINC	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U
MISCELLANEOUS PARAMETERS (MG/L)						
CALCIUM HARDNESS AS CaCO ₃	100	99	98	100	98	91
HARDNESS AS CaCO ₃	380	380	370	390	380	330
MAGNESIUM HARDNESS AS CaCO ₃	280	280	270	290	290	240
FILTERED MISCELLANEOUS (UG/L)						
HEXAVALENT CHROMIUM	0.12 J	0.13 J	0.14 J	0.18 J	0.13 J	0.16 J

CaCO₃ - calcium carbonate

EL - Edwards Lane

UG/L - micrograms per liter

MG/L - milligrams per liter

MSA - Martin State Airport

SW - surface water

J - estimated concentration

NA - not analyzed

U - not detected at the concentration left of

UJ - not detected. Result is estimated.

UR - not detected. Result not reliable.

Table C-1
Chemical Results for Surface Water Samples - March 2016
Frog Mortar Creek
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LOCATION	MSA-SW39B	MSA-SW39C	MSA-SW39D	MSA-SW40A	MSA-SW40B	MSA-SW40C
SAMPLE ID	MSA-SW39B-030716	MSA-SW39C-030716	MSA-SW39D-030716	MSA-SW40A-030716	MSA-SW40B-030716	MSA-SW40C-030716
SAMPLE DATE	20160307	20160307	20160307	20160307	20160307	20160307
VOLATILES (UG/L)						
1,1,1,2-TETRACHLOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1,1-TRICHLOROETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2,2-TETRACHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,1-DICHLOROETHANE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-DICHLOROETHENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,1-DICHLOROPROPENE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,2,3-TRICHLOROBENZENE	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
1,2,3-TRICHLOROPROPANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,2,3-TRIMETHYLBENZENE	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
1,2,4-TRICHLOROBENZENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,2,4-TRIMETHYLBENZENE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,2-DIBROMO-3-CHLOROPROPANE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2-DIBROMOETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,2-DICHLOROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,2-DICHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2-DICHLOROPROPANE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-DICHLOROBENZENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,3-DICHLOROPROPANE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,4-DICHLOROBENZENE	0.27 U	0.27 U	0.27 U	0.35 J	0.27 U	0.27 U
2,2-DICHLOROPROPANE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2-BUTANONE	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
2-CHLOROETHYL VINYL ETHER	0.59 UR	0.59 UR	0.59 UR	0.59 UR	0.59 UR	0.59 UR
2-CHLOROTOLUENE	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-HEXANONE	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
4-CHLOROTOLUENE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
4-ISOPROPYLTOLUENE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
4-METHYL-2-PENTANONE	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U
ACETONE	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U
BENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
BROMOBENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
BROMOCHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMODICHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
BROMOFORM	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
BROMOMETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
CARBON DISULFIDE	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CARBON TETRACHLORIDE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
CHLOROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
CHLORODIBROMOMETHANE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U

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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW39B MSA-SW39B-030716 20160307	MSA-SW39C MSA-SW39C-030716 20160307	MSA-SW39D MSA-SW39D-030716 20160307	MSA-SW40A MSA-SW40A-030716 20160307	MSA-SW40B MSA-SW40B-030716 20160307	MSA-SW40C MSA-SW40C-030716 20160307
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
CHLOROFORM	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
CHLOROMETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
CIS-1,2-DICHLOROETHENE	0.26 U	0.26 U	0.26 U	8.7	2.8	1.5
CIS-1,3-DICHLOROPROPENE	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
DIBROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
DICHLORODIFLUOROMETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
DIISOPROPYL ETHER	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYL TERT-BUTYL ETHER	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
ETHYLBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HEXACHLOROBUTADIENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
ISOPROPYLBENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
M+P-XYLENES	0.24 U	0.24 U	0.24 U	0.89 J	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
N-BUTYLBENZENE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
N-PROPYLBENZENE	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
O-XYLENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
SEC-BUTYLBENZENE	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
STYRENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
TERT-AMYL METHYL ETHER	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TERT-BUTYLBENZENE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
TERTIARY-BUTYL ALCOHOL	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
TETRACHLOROETHENE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
TOLUENE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
TOTAL XYLENES	0.52 U	0.52 U	0.52 U	0.89 J	0.52 U	0.52 U
TRANS-1,2-DICHLOROETHENE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TRANS-1,3-DICHLOROPROPENE	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
TRICHLOROETHENE	0.22 U	0.23 J	0.22 U	5.2	3.4	2.8
TRICHLOROFLUOROMETHANE	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
VINYL ACETATE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
VINYL CHLORIDE	0.29 U	0.29 U	0.29 U	5.6	0.56	0.38 J

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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW39B MSA-SW39B-030716 20160307	MSA-SW39C MSA-SW39C-030716 20160307	MSA-SW39D MSA-SW39D-030716 20160307	MSA-SW40A MSA-SW40A-030716 20160307	MSA-SW40B MSA-SW40B-030716 20160307	MSA-SW40C MSA-SW40C-030716 20160307
TENTATIVELY IDENTIFIED COMPOUNDS- VOLATILES (UG/L)						
(1S,2R)-(+)-NOREPHEDRINE	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (UG/L)						
ANTIMONY	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
ARSENIC	0.58 J	0.52 J	0.63 J	0.65 J	0.61 J	0.69 J
BARIUM	19	18	19	20	20	21
BERYLLIUM	0.36 U	0.36 U	0.29 U	0.31 U	0.34 U	0.28 U
CADMIUM	0.061 U	0.061 U	0.061 U	0.17 U	0.061 U	0.061 U
CHROMIUM	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
COBALT	0.2 U	0.16 U	0.17 U	0.69 U	0.29 U	0.3 U
COPPER	1.8 J	2	2.1	2.1	2.6	2.9
LEAD	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.14 U
MERCURY	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
MOLYBDENUM	0.86 J	0.84 J	0.84 J	0.93 J	0.92 J	1 J
NICKEL	0.32 J	0.29 J	0.23 U	0.47 J	0.39 J	0.35 J
SELENIUM	0.65 U	0.44 U	0.43 U	0.64 U	0.43 U	0.52 U
SILVER	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
THALLIUM	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
TUNGSTEN	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VANADIUM	0.26 J	0.23 U	0.23 U	0.32 J	0.23 U	0.32 J
ZINC	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U
MISCELLANEOUS PARAMETERS (MG/L)						
CALCIUM HARDNESS AS CaCO ₃	92	88	93	99	98	100
HARDNESS AS CaCO ₃	340	320	350	380	380	400
MAGNESIUM HARDNESS AS CaCO ₃	250	230	250	280	280	290
FILTERED MISCELLANEOUS (UG/L)						
HEXAVALENT CHROMIUM	0.14 J	0.16 J	0.15 J	0.14 J	0.17 J	0.17 J

CaCO₃ - calcium carbonate
EL - Edwards Lane
UG/L - micrograms per liter
MG/L - milligrams per liter
MSA - Martin State Airport
SW - surface water
J - estimated concentration
NA - not analyzed
U - not detected at the concentration left of
UJ - not detected. Result is estimated.
UR - not detected. Result not reliable.

Table C-1
Chemical Results for Surface Water Samples - March 2016
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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW40D MSA-SW40D-030716 20160307	MSA-SW41A MSA-SW41A-030716 20160307	MSA-SW41B MSA-SW41B-030716 20160307	MSA-SW41C MSA-SW41C-030716 20160307	MSA-SW41D MSA-SW41D-030716 20160307
VOLATILES (UG/L)					
1,1,1,2-TETRACHLOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1,1-TRICHLOROETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2,2-TETRACHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,1-DICHLOROETHANE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-DICHLOROETHENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,1-DICHLOROPROPENE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,2,3-TRICHLOROBENZENE	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
1,2,3-TRICHLOROPROPANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,2,3-TRIMETHYLBENZENE	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
1,2,4-TRICHLOROBENZENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,2,4-TRIMETHYLBENZENE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,2-DIBROMO-3-CHLOROPROPANE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2-DIBROMOETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,2-DICHLOROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,2-DICHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2-DICHLOROPROPANE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-DICHLOROBENZENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,3-DICHLOROPROPANE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,4-DICHLOROBENZENE	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
2,2-DICHLOROPROPANE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2-BUTANONE	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
2-CHLOROETHYL VINYL ETHER	0.59 UR	0.59 UR	0.59 UR	0.59 UR	0.59 UR
2-CHLOROTOLUENE	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-HEXANONE	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
4-CHLOROTOLUENE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
4-ISOPROPYLTOLUENE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
4-METHYL-2-PENTANONE	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U
ACETONE	0.94 U	0.94 U	0.94 U	0.94 U	0.94 U
BENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
BROMOBENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
BROMOCHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMODICHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
BROMOFORM	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
BROMOMETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
CARBON DISULFIDE	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CARBON TETRACHLORIDE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
CHLOROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
CHLORODIBROMOMETHANE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U

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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW40D MSA-SW40D-030716 20160307	MSA-SW41A MSA-SW41A-030716 20160307	MSA-SW41B MSA-SW41B-030716 20160307	MSA-SW41C MSA-SW41C-030716 20160307	MSA-SW41D MSA-SW41D-030716 20160307
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
CHLOROFORM	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
CHLOROMETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
CIS-1,2-DICHLOROETHENE	0.59 J	5.9	1.2	0.72 J	0.36 J
CIS-1,3-DICHLOROPROPENE	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
DIBROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
DICHLORODIFLUOROMETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
DIISOPROPYL ETHER	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYL TERT-BUTYL ETHER	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
ETHYLBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HEXACHLOROBUTADIENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
ISOPROPYLBENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
M+P-XYLENES	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
N-BUTYLBENZENE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
N-PROPYLBENZENE	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
O-XYLENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
SEC-BUTYLBENZENE	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
STYRENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
TERT-AMYL METHYL ETHER	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TERT-BUTYLBENZENE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
TERTIARY-BUTYL ALCOHOL	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
TETRACHLOROETHENE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
TOLUENE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
TOTAL XYLENES	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
TRANS-1,2-DICHLOROETHENE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TRANS-1,3-DICHLOROPROPENE	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
TRICHLOROETHENE	1.1	4.1	1.9	1.2	0.52 J
TRICHLOROFLUOROMETHANE	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
VINYL ACETATE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
VINYL CHLORIDE	0.29 U	0.38 J	0.29 U	0.29 U	0.29 U

Table C-1
Chemical Results for Surface Water Samples - March 2016
Frog Mortar Creek
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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW40D MSA-SW40D-030716 20160307	MSA-SW41A MSA-SW41A-030716 20160307	MSA-SW41B MSA-SW41B-030716 20160307	MSA-SW41C MSA-SW41C-030716 20160307	MSA-SW41D MSA-SW41D-030716 20160307
TENTATIVELY IDENTIFIED COMPOUNDS- VOLATILES (UG/L)					
(1S,2R)-(+)-NOREPHEDRINE	NA	NA	NA	NA	NA
DISSOLVED METALS (UG/L)					
ANTIMONY	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
ARSENIC	0.62 J	0.54 J	0.63 J	0.61 J	0.61 J
BARIUM	20	19	21	20	20
BERYLLIUM	0.2 U	0.21 U	0.21 U	0.23 U	0.053 U
CADMIUM	0.061 U	0.11 U	0.061 U	0.061 U	0.061 U
CHROMIUM	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
COBALT	0.26 U	1.3	0.33 U	0.26 U	0.22 U
COPPER	2.3	2.8	2.7	2.7	2.7
LEAD	0.11 U	0.11 U	0.13 U	0.13 U	0.11 U
MERCURY	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
MOLYBDENUM	0.88 J	0.85 J	0.97 J	0.92 J	0.9 J
NICKEL	0.41 J	1.5 J	0.39 J	0.35 J	0.34 J
SELENIUM	0.6 U	0.46 U	0.32 U	0.56 U	0.25 U
SILVER	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
THALLIUM	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
TUNGSTEN	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VANADIUM	0.28 J	0.23 U	0.23 U	0.23 U	0.3 J
ZINC	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U
MISCELLANEOUS PARAMETERS (MG/L)					
CALCIUM HARDNESS AS CaCO ₃	98	92	100	96	97
HARDNESS AS CaCO ₃	380	340	380	370	370
MAGNESIUM HARDNESS AS CaCO ₃	280	250	280	270	270
FILTERED MISCELLANEOUS (UG/L)					
HEXAVALENT CHROMIUM	0.12 J	0.12 J	0.15 J	0.14 J	0.14 J

CaCO₃ - calcium carbonate

EL - Edwards Lane

UG/L - micrograms per liter

MG/L - milligrams per liter

MSA - Martin State Airport

SW - surface water

J - estimated concentration

NA - not analyzed

U - not detected at the concentration left of

UJ - not detected. Result is estimated.

UR - not detected. Result not reliable.

Table C-1
Chemical Results for Surface Water Samples - March 2016
Frog Mortar Creek
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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW42A MSA-SW42A-030716 20160307	MSA-SW42B MSA-SW42B-030716 20160307	MSA-SW42C MSA-SW42C-030716 20160307	MSA-SW42D MSA-SW42D-030716 20160307	MSA-SW43A MSA-SW43A-030716 20160307	MSA-SW43B MSA-SW43B-030716 20160307
VOLATILES (UG/L)						
1,1,1,2-TETRACHLOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1,1-TRICHLOROETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2,2-TETRACHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,1-DICHLOROETHANE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-DICHLOROETHENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,1-DICHLOROPROPENE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,2,3-TRICHLOROBENZENE	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
1,2,3-TRICHLOROPROPANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,2,3-TRIMETHYLBENZENE	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
1,2,4-TRICHLOROBENZENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,2,4-TRIMETHYLBENZENE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,2-DIBROMO-3-CHLOROPROPANE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2-DIBROMOETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,2-DICHLOROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,2-DICHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2-DICHLOROPROPANE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-DICHLOROBENZENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,3-DICHLOROPROPANE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,4-DICHLOROBENZENE	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
2,2-DICHLOROPROPANE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2-BUTANONE	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 UJ
2-CHLOROETHYL VINYL ETHER	0.59 UR	0.59 UR	0.59 UR	0.59 UR	0.59 UR	0.59 UR
2-CHLOROTOLUENE	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-HEXANONE	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
4-CHLOROTOLUENE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
4-ISOPROPYLTOLUENE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
4-METHYL-2-PENTANONE	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U
ACETONE	1.4 J	0.94 U	0.94 U	0.94 U	1.3 J	0.94 U
BENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
BROMOBENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
BROMOCHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMODICHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
BROMOFORM	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
BROMOMETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 UJ
CARBON DISULFIDE	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CARBON TETRACHLORIDE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
CHLOROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
CHLORODIBROMOMETHANE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U

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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW42A MSA-SW42A-030716 20160307	MSA-SW42B MSA-SW42B-030716 20160307	MSA-SW42C MSA-SW42C-030716 20160307	MSA-SW42D MSA-SW42D-030716 20160307	MSA-SW43A MSA-SW43A-030716 20160307	MSA-SW43B MSA-SW43B-030716 20160307
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
CHLOROFORM	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
CHLOROMETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
CIS-1,2-DICHLOROETHENE	1.9	2.8	2.9	1	0.46 J	0.26 J
CIS-1,3-DICHLOROPROPENE	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
DIBROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
DICHLORODIFLUOROMETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
DIISOPROPYL ETHER	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYL TERT-BUTYL ETHER	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
ETHYLBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HEXACHLOROBUTADIENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
ISOPROPYLBENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
M+P-XYLENES	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
N-BUTYLBENZENE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
N-PROPYLBENZENE	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
O-XYLENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
SEC-BUTYLBENZENE	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
STYRENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
TERT-AMYL METHYL ETHER	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TERT-BUTYLBENZENE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
TERTIARY-BUTYL ALCOHOL	4.9 UR	4.9 UR	4.9 UR	4.9 UR	4.9 UR	4.9 U
TETRACHLOROETHENE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
TOLUENE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.28 J
TOTAL XYLENES	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
TRANS-1,2-DICHLOROETHENE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TRANS-1,3-DICHLOROPROPENE	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
TRICHLOROETHENE	1.1	3.6	5.5	1.6	0.46 J	0.34 J
TRICHLOROFLUOROMETHANE	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
VINYL ACETATE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
VINYL CHLORIDE	1.4	0.96	0.86	0.34 J	0.29 U	0.29 U

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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW42A MSA-SW42A-030716 20160307	MSA-SW42B MSA-SW42B-030716 20160307	MSA-SW42C MSA-SW42C-030716 20160307	MSA-SW42D MSA-SW42D-030716 20160307	MSA-SW43A MSA-SW43A-030716 20160307	MSA-SW43B MSA-SW43B-030716 20160307
TENTATIVELY IDENTIFIED COMPOUNDS- VOLATILES (UG/L)						
(1S,2R)-(+)-NOREPHEDRINE	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (UG/L)						
ANTIMONY	0.16 U	0.18 J	0.16 U	0.16 U	0.16 U	0.18 J
ARSENIC	0.84 J	1.1 J	0.74 J	0.81 J	0.64 J	0.72 J
BARIUM	20	22	20	20	19	20
BERYLLIUM	0.077 J	0.17 J	0.071 J	0.053 U	0.069 J	0.053 U
CADMIUM	0.13 U	0.19 J	0.094 J	0.061 U	0.061 U	0.061 U
CHROMIUM	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
COBALT	0.47 U	0.56 U	0.41 U	0.31 U	0.94 U	0.35 U
COPPER	2.2	1.9 U	1.5 U	1.9 U	2	2.2
LEAD	0.15 J	0.22 J	0.11 U	0.11 U	0.11 U	0.11 U
MERCURY	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
MOLYBDENUM	0.99 J	1 J	0.96 J	0.97 J	0.8 J	0.87 J
NICKEL	0.23 U	0.23 U	0.23 U	0.23 U	1.4 J	0.28 J
SELENIUM	0.61 U	0.92 U	0.47 U	0.33 U	0.44 U	0.55 U
SILVER	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
THALLIUM	0.074 U	0.082 J	0.074 U	0.074 U	0.074 U	0.074 U
TUNGSTEN	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VANADIUM	0.27 U	0.77 U	0.43 U	0.36 U	0.45 U	0.45 U
ZINC	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U	7.3 U
MISCELLANEOUS PARAMETERS (MG/L)						
CALCIUM HARDNESS AS CaCO ₃	98	100	98	98	90	95
HARDNESS AS CaCO ₃	390	410	390	390	330	360
MAGNESIUM HARDNESS AS CaCO ₃	300	310	290	290	240	260
FILTERED MISCELLANEOUS (UG/L)						
HEXAVALENT CHROMIUM	0.14 J	0.15 J	0.13 J	0.14 J	0.15 J	0.13 J

CaCO₃ - calcium carbonate
EL - Edwards Lane
UG/L - micrograms per liter
MG/L - milligrams per liter
MSA - Martin State Airport
SW - surface water
J - estimated concentration
NA - not analyzed
U - not detected at the concentration left of
UJ - not detected. Result is estimated.
UR - not detected. Result not reliable.

Table C-1
Chemical Results for Surface Water Samples - March 2016
Frog Mortar Creek
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LOCATION	MSA-SW43C	MSA-SW43D	MSA-SW44A	MSA-SW44B	MSA-SW44C	MSA-SW44D
SAMPLE ID	MSA-SW43C-030716	MSA-SW43D-030716	MSA-SW44A-030716	MSA-SW44B-030716	MSA-SW44C-030716	MSA-SW44D-030716
SAMPLE DATE	20160307	20160307	20160307	20160307	20160307	20160307
VOLATILES (UG/L)						
1,1,1,2-TETRACHLOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1,1-TRICHLOROETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2,2-TETRACHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,1-DICHLOROETHANE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,1-DICHLOROETHENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
1,1-DICHLOROPROPENE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,2,3-TRICHLOROBENZENE	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
1,2,3-TRICHLOROPROPANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,2,3-TRIMETHYLBENZENE	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
1,2,4-TRICHLOROBENZENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,2,4-TRIMETHYLBENZENE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,2-DIBROMO-3-CHLOROPROPANE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,2-DIBROMOETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,2-DICHLOROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,2-DICHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2-DICHLOROPROPANE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-DICHLOROBENZENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,3-DICHLOROPROPANE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,4-DICHLOROBENZENE	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
2,2-DICHLOROPROPANE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2-BUTANONE	0.53 UJ	0.53 UJ	0.53 UJ	0.53 UJ	0.53 UJ	0.53 UJ
2-CHLOROETHYL VINYL ETHER	0.59 UR	0.59 UR	0.59 UR	0.59 UR	0.59 UR	0.59 UR
2-CHLOROTOLUENE	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
2-HEXANONE	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
4-CHLOROTOLUENE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
4-ISOPROPYLTOLUENE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
4-METHYL-2-PENTANONE	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U
ACETONE	0.94 U	0.94 U	0.94 U	0.94 U	0.99 J	0.94 U
BENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
BROMOBENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
BROMOCHLOROMETHANE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMODICHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
BROMOFORM	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
BROMOMETHANE	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ	0.44 UJ
CARBON DISULFIDE	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
CARBON TETRACHLORIDE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
CHLOROBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
CHLORODIBROMOMETHANE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U

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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW43C MSA-SW43C-030716 20160307	MSA-SW43D MSA-SW43D-030716 20160307	MSA-SW44A MSA-SW44A-030716 20160307	MSA-SW44B MSA-SW44B-030716 20160307	MSA-SW44C MSA-SW44C-030716 20160307	MSA-SW44D MSA-SW44D-030716 20160307
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
CHLOROFORM	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
CHLOROMETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
CIS-1,2-DICHLOROETHENE	0.89 J	0.33 J	0.26 U	0.27 J	0.26 U	0.26 U
CIS-1,3-DICHLOROPROPENE	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
DIBROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
DICHLORODIFLUOROMETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
DIISOPROPYL ETHER	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYL TERT-BUTYL ETHER	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
ETHYLBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
HEXACHLOROBUTADIENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
ISOPROPYLBENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
M+P-XYLENES	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
N-BUTYLBENZENE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
N-PROPYLBENZENE	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
O-XYLENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
SEC-BUTYLBENZENE	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
STYRENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
TERT-AMYL METHYL ETHER	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TERT-BUTYLBENZENE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
TERTIARY-BUTYL ALCOHOL	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
TETRACHLOROETHENE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
TOLUENE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
TOTAL XYLENES	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
TRANS-1,2-DICHLOROETHENE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TRANS-1,3-DICHLOROPROPENE	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
TRICHLOROETHENE	1.3	0.49 J	0.22 U	0.38 J	0.22 U	0.22 U
TRICHLOROFLUOROMETHANE	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
VINYL ACETATE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
VINYL CHLORIDE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U

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LOCATION	MSA-SW43C	MSA-SW43D	MSA-SW44A	MSA-SW44B	MSA-SW44C	MSA-SW44D
SAMPLE ID	MSA-SW43C-030716	MSA-SW43D-030716	MSA-SW44A-030716	MSA-SW44B-030716	MSA-SW44C-030716	MSA-SW44D-030716
SAMPLE DATE	20160307	20160307	20160307	20160307	20160307	20160307
TENTATIVELY IDENTIFIED COMPOUNDS-VOLATILES (UG/L)						
(1S,2R)-(+)-NOREPHEDRINE	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (UG/L)						
ANTIMONY	0.17 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
ARSENIC	0.68 J	0.69 J	0.61 J	0.71 J	0.68 J	0.65 J
BARIUM	19	19	18	20	19	19
BERYLLIUM	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
CADMIUM	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U
CHROMIUM	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
COBALT	0.25 U	0.19 U	0.31 U	0.16 U	0.15 U	0.14 U
COPPER	1.8 U	22	1.6 U	1.6 U	1.7 U	1.9 U
LEAD	0.11 J	0.6 J	0.11 U	0.11 U	0.11 U	0.11 U
MERCURY	0.09 U	0.09 U	0.21 J	0.09 U	0.09 U	0.09 U
MOLYBDENUM	0.79 J	0.83 J	0.78 J	0.89 J	0.78 J	0.86 J
NICKEL	0.23 U	0.23 U	0.26 J	0.23 U	0.23 U	0.23 U
SELENIUM	0.65 U	0.44 U	0.26 U	0.44 U	0.46 U	0.25 U
SILVER	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
THALLIUM	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
TUNGSTEN	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VANADIUM	0.36 U	0.44 U	0.42 U	0.46 U	0.26 U	0.23 U
ZINC	7.3 U	12 U	7.3 U	7.3 U	7.3 U	7.3 U
MISCELLANEOUS PARAMETERS (MG/L)						
CALCIUM HARDNESS AS CaCO ₃	90	91	85	94	90	89
HARDNESS AS CaCO ₃	350	350	310	350	340	340
MAGNESIUM HARDNESS AS CaCO ₃	260	260	230	260	250	250
FILTERED MISCELLANEOUS (UG/L)						
HEXAVALENT CHROMIUM	0.13 J	0.16 J	0.25 U	0.14 J	0.16 J	0.16 J

CaCO₃ - calcium carbonate
EL - Edwards Lane
UG/L - micrograms per liter
MG/L - milligrams per liter
MSA - Martin State Airport
SW - surface water
J - estimated concentration
NA - not analyzed
U - not detected at the concentration left of
UJ - not detected. Result is estimated.
UR - not detected. Result not reliable.

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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW45A MSA-SW45A-030716 20160307	MSA-SW45B MSA-SW45B-030716 20160307	MSA-SW45C MSA-SW45C-030716 20160307	MSA-SW45D MSA-SW45D-030716 20160307	MSA-SW46A MSA-SW46A-030716 20160307	MSA-SW47A MSA-SW47A-030716 20160307	MSA-SW48A MSA-SW48A-030716 20160307
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
CHLOROFORM	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
CHLOROMETHANE	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
CIS-1,2-DICHLOROETHENE	0.26 U	0.26 U	0.26 U	0.26 U	3.8	10	14
CIS-1,3-DICHLOROPROPENE	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
DIBROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
DICHLORODIFLUOROMETHANE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
DIISOPROPYL ETHER	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYL TERT-BUTYL ETHER	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
ETHYLBENZENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.49 J	0.25 U
HEXACHLOROBUTADIENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
ISOPROPYLBENZENE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
M+P-XYLENES	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	5.2	1.2 J
METHYL TERT-BUTYL ETHER	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
N-BUTYLBENZENE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
N-PROPYLBENZENE	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
O-XYLENE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	1	0.25 U
SEC-BUTYLBENZENE	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
STYRENE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
TERT-AMYL METHYL ETHER	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TERT-BUTYLBENZENE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
TERTIARY-BUTYL ALCOHOL	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
TETRACHLOROETHENE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
TOLUENE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.4 J	0.23 U
TOTAL XYLENES	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	6.2	1.2 J
TRANS-1,2-DICHLOROETHENE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
TRANS-1,3-DICHLOROPROPENE	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U	0.56 U
TRICHLOROETHENE	0.22 U	0.22 U	0.25 J	0.27 J	2.6	9.2	6.1
TRICHLOROFLUOROMETHANE	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
VINYL ACETATE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
VINYL CHLORIDE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	2.1	11

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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW45A MSA-SW45A-030716 20160307	MSA-SW45B MSA-SW45B-030716 20160307	MSA-SW45C MSA-SW45C-030716 20160307	MSA-SW45D MSA-SW45D-030716 20160307	MSA-SW46A MSA-SW46A-030716 20160307	MSA-SW47A MSA-SW47A-030716 20160307	MSA-SW48A MSA-SW48A-030716 20160307
TENTATIVELY IDENTIFIED COMPOUNDS- VOLATILES (UG/L)							
(1S,2R)-(+)-NOREPHEDRINE	1 NJ	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (UG/L)							
ANTIMONY	0.16 U	0.16 U	0.16 U	0.16 U	NA	NA	NA
ARSENIC	0.57 J	0.62 J	0.64 J	0.58 J	NA	NA	NA
BARIUM	19	20	19	19	NA	NA	NA
BERYLLIUM	0.053 U	0.053 U	0.053 U	0.053 U	NA	NA	NA
CADMIUM	0.061 U	0.061 U	0.061 U	0.061 U	NA	NA	NA
CHROMIUM	0.6 U	0.6 U	0.6 U	0.6 U	NA	NA	NA
COBALT	0.45 U	0.15 U	0.18 U	0.19 U	NA	NA	NA
COPPER	1.6 U	1.5 U	2.3	1.6 U	NA	NA	NA
LEAD	0.11 U	0.11 U	0.19 J	0.11 U	NA	NA	NA
MERCURY	0.09 U	0.09 U	0.09 U	0.09 U	NA	NA	NA
MOLYBDENUM	0.75 J	0.83 J	0.72 J	0.85 J	NA	NA	NA
NICKEL	0.31 J	0.23 U	0.31 J	0.23 U	NA	NA	NA
SELENIUM	0.32 U	0.25 U	0.37 U	0.25 U	NA	NA	NA
SILVER	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA
THALLIUM	0.074 U	0.074 U	0.074 U	0.074 U	NA	NA	NA
TUNGSTEN	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA
VANADIUM	0.32 U	0.4 U	0.25 U	0.35 U	NA	NA	NA
ZINC	7.3 U	7.3 U	9.6 U	7.3 U	NA	NA	NA
MISCELLANEOUS PARAMETERS (MG/L)							
CALCIUM HARDNESS AS CaCO3	86	92	84	91	NA	NA	NA
HARDNESS AS CaCO3	320	340	310	340	NA	NA	NA
MAGNESIUM HARDNESS AS CaCO3	230	250	220	250	NA	NA	NA
FILTERED MISCELLANEOUS (UG/L)							
HEXAVALENT CHROMIUM	0.15 J	0.12 J	0.12 J	0.13 J	NA	NA	NA

CaCO₃ - calcium carbonate

EL - Edwards Lane

UG/L - micrograms per liter

MG/L - milligrams per liter

MSA - Martin State Airport

SW - surface water

J - estimated concentration

NA - not analyzed

U - not detected at the concentration left of

UJ - not detected. Result is estimated.

UR - not detected. Result not reliable.

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Chemical Results for Surface Water Samples - March 2016
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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW49A MSA-SW49A-030716 20160307
VOLATILES (UG/L)	
1,1,1,2-TETRACHLOROETHANE	0.28 U
1,1,1-TRICHLOROETHANE	0.44 U
1,1,2,2-TETRACHLOROETHANE	0.22 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.45 U
1,1-DICHLOROETHANE	0.3 U
1,1-DICHLOROETHENE	0.45 U
1,1-DICHLOROPROPENE	0.42 U
1,2,3-TRICHLOROBENZENE	0.37 U
1,2,3-TRICHLOROPROPANE	0.44 U
1,2,3-TRIMETHYLBENZENE	0.47 U
1,2,4-TRICHLOROBENZENE	0.32 U
1,2,4-TRIMETHYLBENZENE	0.41 U
1,2-DIBROMO-3-CHLOROPROPANE	0.82 U
1,2-DIBROMOETHANE	0.32 U
1,2-DICHLOROBENZENE	0.25 U
1,2-DICHLOROETHANE	0.23 U
1,2-DICHLOROPROPANE	0.25 U
1,3-DICHLOROBENZENE	0.19 U
1,3-DICHLOROPROPANE	0.19 U
1,4-DICHLOROBENZENE	0.27 U
2,2-DICHLOROPROPANE	0.26 U
2-BUTANONE	0.53 UJ
2-CHLOROETHYL VINYL ETHER	0.59 UR
2-CHLOROTOLUENE	0.4 U
2-HEXANONE	0.48 U
4-CHLOROTOLUENE	0.29 U
4-ISOPROPYLTOLUENE	0.43 U
4-METHYL-2-PENTANONE	0.99 U
ACETONE	0.94 U
BENZENE	0.35 U
BROMOBENZENE	0.35 U
BROMOCHLOROMETHANE	0.5 U
BROMODICHLOROMETHANE	0.29 U
BROMOFORM	0.56 U
BROMOMETHANE	0.44 UJ
CARBON DISULFIDE	0.38 U
CARBON TETRACHLORIDE	0.43 U
CHLOROBENZENE	0.25 U
CHLORODIBROMOMETHANE	0.43 U

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LOCATION SAMPLE ID SAMPLE DATE	MSA-SW49A MSA-SW49A-030716 20160307
CHLORODIFLUOROMETHANE	1 UJ
CHLOROETHANE	0.32 U
CHLOROFORM	0.25 U
CHLOROMETHANE	0.44 U
CIS-1,2-DICHLOROETHENE	2.9
CIS-1,3-DICHLOROPROPENE	0.46 U
DIBROMOMETHANE	0.42 U
DICHLORODIFLUOROMETHANE	0.32 U
DIISOPROPYL ETHER	0.5 U
ETHYL TERT-BUTYL ETHER	0.23 U
ETHYLBENZENE	0.25 U
HEXACHLOROBUTADIENE	0.35 U
ISOPROPYLBENZENE	0.35 U
M+P-XYLENES	0.24 U
METHYL TERT-BUTYL ETHER	0.2 U
METHYLENE CHLORIDE	0.33 U
NAPHTHALENE	0.45 U
N-BUTYLBENZENE	0.31 U
N-PROPYLBENZENE	0.4 U
O-XYLENE	0.25 U
SEC-BUTYLBENZENE	0.48 U
STYRENE	0.45 U
TERT-AMYL METHYL ETHER	0.3 U
TERT-BUTYLBENZENE	0.41 U
TERTIARY-BUTYL ALCOHOL	4.9 U
TETRACHLOROETHENE	0.31 U
TOLUENE	0.23 U
TOTAL XYLENES	0.52 U
TRANS-1,2-DICHLOROETHENE	0.3 U
TRANS-1,3-DICHLOROPROPENE	0.56 U
TRICHLOROETHENE	1.9
TRICHLOROFLUOROMETHANE	0.49 U
VINYL ACETATE	0.41 U
VINYL CHLORIDE	1.6

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LOCATION	MSA-SW49A	
SAMPLE ID	MSA-SW49A-030716	
SAMPLE DATE	20160307	
TENTATIVELY IDENTIFIED COMPOUNDS-VOLATILES (UG/L)		
(1S,2R)-(+)-NOREPHEDRINE	NA	
DISSOLVED METALS (UG/L)		
ANTIMONY	NA	
ARSENIC	NA	
BARIUM	NA	
BERYLLIUM	NA	
CADMIUM	NA	
CHROMIUM	NA	
COBALT	NA	
COPPER	NA	
LEAD	NA	
MERCURY	NA	
MOLYBDENUM	NA	
NICKEL	NA	
SELENIUM	NA	
SILVER	NA	
THALLIUM	NA	
TUNGSTEN	NA	
VANADIUM	NA	
ZINC	NA	
MISCELLANEOUS PARAMETERS (MG/L)		
CALCIUM HARDNESS AS CaCO ₃	NA	
HARDNESS AS CaCO ₃	NA	
MAGNESIUM HARDNESS AS CaCO ₃	NA	
FILTERED MISCELLANEOUS (UG/L)		
HEXAVALENT CHROMIUM	NA	

CaCO₃ - calcium carbonate

EL - Edwards Lane

UG/L - micrograms per liter

MG/L - milligrams per liter

MSA - Martin State Airport

SW - surface water

J - estimated concentration

NA - not analyzed

U - not detected at the concentration left of

UJ - not detected. Result is estimated.

UR - not detected. Result not reliable.