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January 16, 2019

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: August 2018
Surface Water Sampling Results
Martin State Airport, 701 Wilson Point Road, Middle River, Maryland

Dear Mr. Carroll:

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

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

Sincerely,

A handwritten signature in blue ink that reads "Charles Trione".

Charles Trione
Project Lead, Environmental Remediation
Lockheed Martin Corporation

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

Prepared for:
Lockheed Martin Corporation

Prepared by:
Tetra Tech, Inc.

January 2019

Approved by:
Lockheed Martin, Inc.

Revision: 0



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ACRONYMS AND ABBREVIATIONS

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

USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound

SECTION 1

INTRODUCTION

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech, Inc., (Tetra Tech) has prepared this technical memorandum presenting sampling results for surface water samples collected in Frog Mortar Creek adjacent to the Dump Road Area (DRA) at Martin State Airport (MSA) in Middle River, Maryland (see Figure 1-1). Surface water was sampled according to the 2018 Surface Water Sampling Work Plan (Tetra Tech, 2017). This technical memorandum presents the analytical results for surface water samples collected from Frog Mortar Creek on August 7, 2018.

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

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

This technical memorandum is organized as follows:

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

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.

SECTION 2

SITE BACKGROUND AND PREVIOUS INVESTIGATIONS

Martin State Airport (MSA) is at 701 Wilson Point Road in Middle River, Maryland, bounded by Frog Mortar Creek to the east and Stansbury Creek to the west (Figure 2-1); both are tidal tributaries of the Chesapeake Bay. The Maryland Aviation Administration (MAA) operates MSA on behalf of the Maryland Department of Transportation. The current MSA property (approximately 775 acres) consists of an administration building (the Main Terminal building), aircraft hangars, a 7,000-foot-long runway, and several taxiways. MAA manages more than 130,000 square feet of heated hangar space and 190 smaller aircraft hangars. MSA hosts the Maryland State Police aviation unit, Baltimore County Police aviation and marine units, the Baltimore City Police aviation unit, and the Glenn L. Martin Museum. MSA is also home to several commercial tenants that provide fuels and lubricants, helicopter avionics repair, and flight instruction (MAA, 2018).

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 (as modified by the construction of the extraction and treatment system noted below); however, it also includes a portion of Taxiway Tango and extends to the airport runway. Taxiway Tango is a concrete and asphalt taxiway currently used by the Maryland Air National Guard (MDANG) for military aircraft operations. The airport runway is also used by state-owned and private aircraft.

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

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

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

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

Frog Mortar Creek is hydraulically downgradient of and receives groundwater discharging from the DRA. The constituents listed above have been detected in surface water samples collected from Frog Mortar Creek. Surface water samples have been collected from Frog Mortar Creek since 1997, and multiple rounds of samples have been collected annually since 2010. Studies at Frog Mortar Creek from 1997–2017, and details of the area’s physical setting, land use, physiography, and surface/subsurface conditions (i.e., soils, hydrology, and geology), are summarized in the *2017 Surface Water Sampling Report for Frog Mortar Creek* (Tetra Tech, 2018), and therefore are not repeated herein.

SECTION 3

INVESTIGATION APPROACH AND METHODOLOGY

Previous surface-water sampling data for Frog Mortar Creek support the need for ongoing monitoring to assess the extent to which surface water is affected by groundwater discharged from the Dump Road Area (DRA). The August 2018 data will support this ongoing effort and will also be used to assess the effectiveness of the extraction, containment, and treatment system. The chlorinated volatile organic compounds (cVOCs) trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC), and several metals, have previously been detected in Frog Mortar Creek surface water samples at concentrations exceeding ecological and/or human health screening-criteria; these analytes have also been detected in groundwater at the DRA.

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

3.1 SURFACE WATER SAMPLING

3.1.1 Surface Water Sampling and Chemical Analyses

Forty-four surface water samples were collected from Frog Mortar Creek adjacent to the DRA site on August 7, 2018. Sampling locations are shown in Figure 3-1. Four samples were collected along each of nine transects spaced approximately 350 feet apart along the western shoreline of the creek;

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

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

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

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

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

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

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

Water depth measurements were also obtained from the staff gauge at 3301 Edwards Lane before sampling (0.87 meters [2.85 feet] at 1020 hours) and after sampling (1.0 meters [3.28 feet] at 1327 hours). Mean tidal-flux in the Middle River, Maryland area is approximately 1.6 feet (National Oceanic and Atmospheric Administration [NOAA], 2015). A 2011 study by Lockheed Martin sought to ascertain the effects of tides and sampling depths on contaminant concentrations in Frog Mortar Creek (Tetra Tech, 2012). The tidal phase relative to the time of sample collection appears to influence the VOC concentrations detected, particularly in the samples collected 50 feet from shore. In general, VOC concentrations in “B-series” samples (collected 50 feet from shore) were greater at low tide than at high tide, irrespective of sampling depth. Therefore, during this sampling round, all samples were collected during low tide.

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

Hexavalent chromium samples were collected in pre-cleaned bottles containing a buffer solution (to increase holding time limits). Each bottle was filtered in the field using a peristaltic pump. Hexavalent chromium samples were expedited to the laboratory so they could be analyzed within 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. August 2018 log sheets for surface water samples 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 August 7, 2018 from MSA-SW37A would be labeled “MSA-SW37A-080718.” The trip blank was labeled with a “TB” prefix followed by the sample’s six-digit submittal date (e.g., TB-080718).

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

3.1.5 Waste Management

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

3.2 DATA MANAGEMENT

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

3.2.1 Data Tracking and Control

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

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

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

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

3.2.2 Sample Information

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

3.2.3 Project Data Compilation

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

3.2.4 Geographic Information System

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

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

3.3 DATA REVIEW

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

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

- J* The analyte is considered present in the sample, but is an estimated value that may not meet highest accuracy or precision standards. In this program, samples were qualified with “J” because quantitation was above the method detection limit but below the laboratory reporting-limit.
- NJ* The analyte has been tentatively identified. This qualifier indicates presumptive evidence of a compound. Special methods might be required to confirm its presence or absence in future sampling efforts.
- U* Not detected; the analyte is considered not detected at the reported value.
- UJ* The analyte is not detected; however, the quantitation or detection limit may be inaccurate or imprecise.

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

SECTION 4 RESULTS

4.1 SURFACE WATER DATA AND SCREENING CRITERIA

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

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

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

results for these metals are not directly comparable to BTAG criteria. NRWQC and BTAG screening values for seven metals (cadmium, chromium, copper, lead, nickel, silver, and zinc) were adjusted using site-specific hardness data; the lowest hardness value for August 2018 was 180 mg/L, so the screening levels have been adjusted based on this hardness.

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

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

4.2 SURFACE WATER SAMPLING RESULTS

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

4.2.1 Volatile Organic Compounds

The most frequently detected chlorinated VOC (cVOC) in August 2018 was *cis*-1,2-DCE. This VOC is also one of the primary cVOCs detected in the DRA groundwater plume. TCE and VC, cVOCs detected in past events, were only detected in one sample (0.26 µg/L at SW49A) and two samples (0.6 µg/L at SW38A and 0.3 µg/L at SW42A), respectively, in August 2018. The maximum *cis*-1,2-DCE, TCE, and VC concentrations detected in August 2018 (Table 4-3 and Figure 4-4) are comparable to those detected during the last round of sampling (July 2018) and much less than during the previous year (August 2017). All calculated average concentrations (i.e., for all samples, and for detects only) for *cis*-1,2-DCE, TCE, and VC in August 2018 are also lower than those calculated for last year (August 2017) and comparable to the last round of sampling (July 2018; see Table 4-3).

August 2018 cVOC concentrations (see Figures 4-1 through 4-4) continue to be lower as compared to previous years. The highest *cis*-1,2-DCE concentrations in August 2018 (Figure 4-2) were detected at SW41A (0.26 µg/L), SW42A (0.27 µg/L), and SW49A (0.37 µg/L). TCE was only detected at a single location (SW49A) and VC was only detected at two locations (SW38A and SW42A) all in the most near-shore sample locations.

All *cis*-1,2-DCE, TCE, and VC concentrations in August 2018 surface water samples are less than applicable screening levels (Table 4-2). TCE was detected in only one (0.26 µg/L at SW49A) of 44 samples collected during this round. In previous sampling, surface water samples from transects SW38, SW40, and SW41 (all on the western shore of Frog Mortar Creek) have typically had the highest TCE concentrations. TCE results from August 2018 do not follow prior trends in that the only detection occurred at the near-shore location SW49A (location SW49A is between transects SW41 and SW43). This sole TCE detection (0.26 µg/L) is two orders of magnitude lower than the August 2017 maximum and over seven times lower than both TCE averages calculated for last year (August 2017). Note that TCE was detected in all 44 samples in August 2017.

cis-1,2-DCE was detected in 13 of 44 samples at concentrations ranging from 0.16 µg/L (SW41B) to 0.37 µg/L at SW49A (see Table 4-1; Figures 4-2 and 4-4). *cis*-1,2-DCE concentrations were generally highest in the northern and central transects and are associated with locations historically having the highest TCE and VC concentrations. Like the sole TCE detection, the highest

cis-1,2-DCE concentration (0.37 µg/L) in August 2018 was at SW49A, with its next highest concentration (0.27 µg/L) at SW42A. The maximum *cis*-1,2-DCE concentration in this round is 40 times lower than the maximum detected concentration last year (15 µg/L in August 2017 [Table 4-3]).

The distribution of *cis*-1,2-DCE in previous rounds tends to decrease with increased distance from the shore in the higher concentration transects. As shown in Figure 4-2, this trend is not easily apparent for August 2018 due to its low frequency of detection and low detected concentrations. *cis*-1,2-DCE was not detected at the eastern-shoreline locations in August 2018.

VC was detected in only 2 of 44 samples in August 2018 (see Table 4-1, Figures 4-3 and 4-4). This is the same frequency it was detected at in the last round (in 2 of 44 samples in July 2018), but at a much lower frequency than last year (16 of 44 samples in August 2017). VC detections in August 2018 are 0.3 µg/L and 0.6 µg/L (Table 4-1). Neither of the two detected concentrations of VC August 2018 exceed its site-specific screening level for swimming (0.7 µg/L). A VC concentration slightly exceeding the swimming screening level was detected at only one location during the previous sampling event in July 2018 (0.99 µg/L at SW38A). VC concentrations exceeded the swimming screening level at seven locations one year ago (August 2017 [Table 4-3]).

Eight additional VOCs (1,3-dichlorobenzene, 1,4-dichlorobenzene, acetone, benzene, chloromethane, *m*+*p*-xylenes, toluene, and total xylenes) were all detected at concentrations less than their respective screening levels in August 2018. An additional VOC, 1,2,4-trichlorobenzene, was detected above its human health consumption-of-organism screening level (0.076 µg/L) in two samples during this round (0.35 µg/L at SW38A and 0.36 µg/L at SW38B). This compound has rarely been detected in Frog Mortar Creek surface water. Since 2004, 1,2,4-trichlorobenzene has only been detected in ten samples at near-shore sampling locations (SW38A, SW38B, SW40B, and SW48A). The concentration has ranged from 0.3 to 1.3 µg/L.

4.2.2 Metals

Barium is ubiquitous in creek samples and has been detected in (varying) narrow concentration ranges in all samples collected in the creek since its surface water was first analyzed for barium in 2010. Consistent with historical results, dissolved barium concentrations (11-13 µg/L) at all

sampled locations during this sampling round exceed its lowest screening level (4 µg/L) protective of ecological receptors. The highest concentration (13 µg/L) was detected south of the DRA at sampling location SW45A. Barium concentrations in August 2018 are similar to, but slightly lower than, those detected last round (range of 11 µg/L to 14 µg/L in July 2018), and are also lower than those detected last year (range of 14 µg/L to 19 µg/L in August 2017).

Arsenic was detected during this round with total concentrations ranging from 1.2 µg/L to 2.4 µg/L, with the highest concentration reported for both SW43D and SW44D (Table 4-1). The arsenic concentrations are below its ecological surface water screening criterion (5 µg/L) but are greater than the human health consumption-of-organism-only criterion (0.14 µg/L). Arsenic concentrations have been consistently lower than the range of arsenic background concentrations (2.2–3.9 µg/L) detected in samples collected as part of Lockheed Martin’s larger-scale 2007–2008 Frog Mortar Creek investigation (Tetra Tech, 2009). Eleven other metals (antimony, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, and vanadium) were detected at low concentrations in August 2018. Selenium concentrations (1.1–1.4 µg/L) slightly exceeded its ecological surface water screening criterion (1 µg/L) at seven locations (SW37A, SW37B, SW37C, SW38C, SW39A, SW39C, and 1 SW39D), and one copper detection (15 µg/L at SW45B) slightly exceeded both its chronic NRWQC criterion and its ecological surface water screening criterion (both are 14.8 µg/L).

4.2.3 Hexavalent Chromium

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

SECTION 5 SUMMARY

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

- Surface water samples were collected on August 7, 2018 and chemically analyzed to assess concentrations of chemical constituents in Frog Mortar Creek, and particularly to evaluate creek surface-water quality near the Dump Road Area (DRA). Each sample was collected at approximately one foot below the water surface.
- Samples were collected along each of nine transects spaced approximately 350 feet apart (for 36 samples) along the western shoreline of Frog Mortar Creek, and from one transect along the eastern shoreline. Along each transect, one sample was collected near the shoreline (“A” sample), one was collected approximately 50 feet from the shoreline (“B” sample), one was collected approximately 100 feet from the shoreline (“C” sample), and one was collected approximately 200 feet from the shoreline (“D” sample). In addition to the samples collected along transects, four single-point shoreline samples were collected, including SW46A (between transects SW42 and SW40), SW47A (between transects SW40 and SW38), SW48A (between transects SW38 and SW41), and SW49A (between transects SW41 and SW43).
- Frog Mortar Creek samples collected along the western shoreline were analyzed for volatile organic compounds (VOCs), dissolved (filtered) metals, hexavalent chromium, and hardness. Samples SW46A through SW49A, and those collected along the eastern shoreline, were only analyzed for volatile organic compounds.
- These data were validated in accordance with the United States Environmental Protection Agency (USEPA) national functional guidelines for both organic and inorganic data review (USEPA, 2017a, b) and the specifics of the analytical methods used. Sampling results were screened against United States Environmental Protection Agency Region 3 Biological Technical Advisory Group (BTAG) ecological screening-benchmarks for freshwater; United States Environmental Protection Agency national recommended water quality criteria (NRWQC) for acute and chronic aquatic-organism exposures and for human health aquatic-organism-consumption; Maryland ambient water quality criteria (AWQC) for acute and chronic aquatic-organism exposures and for human health aquatic-organism-consumption; and site-specific screening levels developed to evaluate risks to recreational swimmers from exposure to the three most frequently detected volatile organic compounds in surface water: trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC).

-
- Chlorinated volatile organic compounds (trichloroethene, *cis*-1,2-dichloroethene and vinyl chloride) and 13 metals, excluding hexavalent chromium, were detected in the August 2018 surface water samples. Concentrations of volatile organic compounds (except 1,2,4-trichlorobenzene) and metals (except barium, arsenic, selenium, and copper) are less than human health consumption-of-organism and ecological screening levels.
 - Trichloroethene was detected at a low concentration in only one location. These results are similar to previous rounds in 2018 with few to no detections of TCE.
 - *cis*-1,2-Dichloroethene was detected in 13 of 44 samples, at concentrations ranging from 0.16 µg/L to 0.37 µg/L but did not exceed its swimming criterion (300 µg/L) in any sample. The highest *cis*-1,2-DCE concentration (0.37 µg/L) was at SW49A, with the next highest concentration at SW42A (0.27 µg/L).
 - Vinyl chloride was detected in two of 44 samples, at concentrations of 0.3 µg/L (SW38A) and 0.6 µg/L (SW42A), neither of which exceed its site-specific swimming criterion (0.7 µg/L).
 - The maximum *cis*-1,2-dichloroethene, trichloroethene, and vinyl chloride concentrations detected in August 2018 are comparable to those detected during the last round of sampling (July 2018) and lower than during the previous year (August 2017).
 - Trichloroethene, *cis*-1,2-dichloroethene, and vinyl chloride were not detected in the four samples collected along the eastern-shoreline (SW01A–SW01D). These results are consistent with previous data indicating that volatile organic compound concentrations in this area of Frog Mortar Creek are only infrequently detected and when found are well below their respective site-specific swimming criteria.
 - Dissolved barium exceeded its ecological screening level in all 36 samples collected in August 2018. Historical sampling has demonstrated that barium is ubiquitous in creek samples; the August 2018 concentrations (11-13 µg/L) are slightly lower than those detected in both July 2018 (12-14 µg/L) and August 2017 (14-19 µg/L).
 - Arsenic was detected in all 36 samples collected during this round, with concentrations ranging from 1.2 µg/L to 2.4 µg/L (Table 4-1). These results are slightly lower than typical arsenic concentrations; previous sampling has indicated that arsenic concentrations are typically within the range of background (2.2–3.9 µg/L) established during Lockheed Martin’s larger-scale 2007–2008 Frog Mortar Creek investigation. Eleven other metals (antimony, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, and vanadium) were detected in August 2018. Of these, selenium exceeded its ecological screening criterion, and copper slightly exceeded its ecological screening criterion and its chronic national recommended water quality criterion. Exceedances are very uncommon for these latter metals, as they are rarely detected in Frog Mortar Creek, and if detected, rarely exceed their respective screening levels.

-
- Dissolved hexavalent chromium was not detected in any sample collected during this round. Hexavalent chromium was detected in July, August, and September 2017, but was not detected in December 2017, March 2018, June 2018, and July 2018. No concentrations of hexavalent chromium exceeded the most protective ecological screening-criterion used for Frog Mortar Creek in August 2018.

SECTION 6 REFERENCES

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FIGURES

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

Figure 2-1 Martin State Airport and Surrounding Features

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

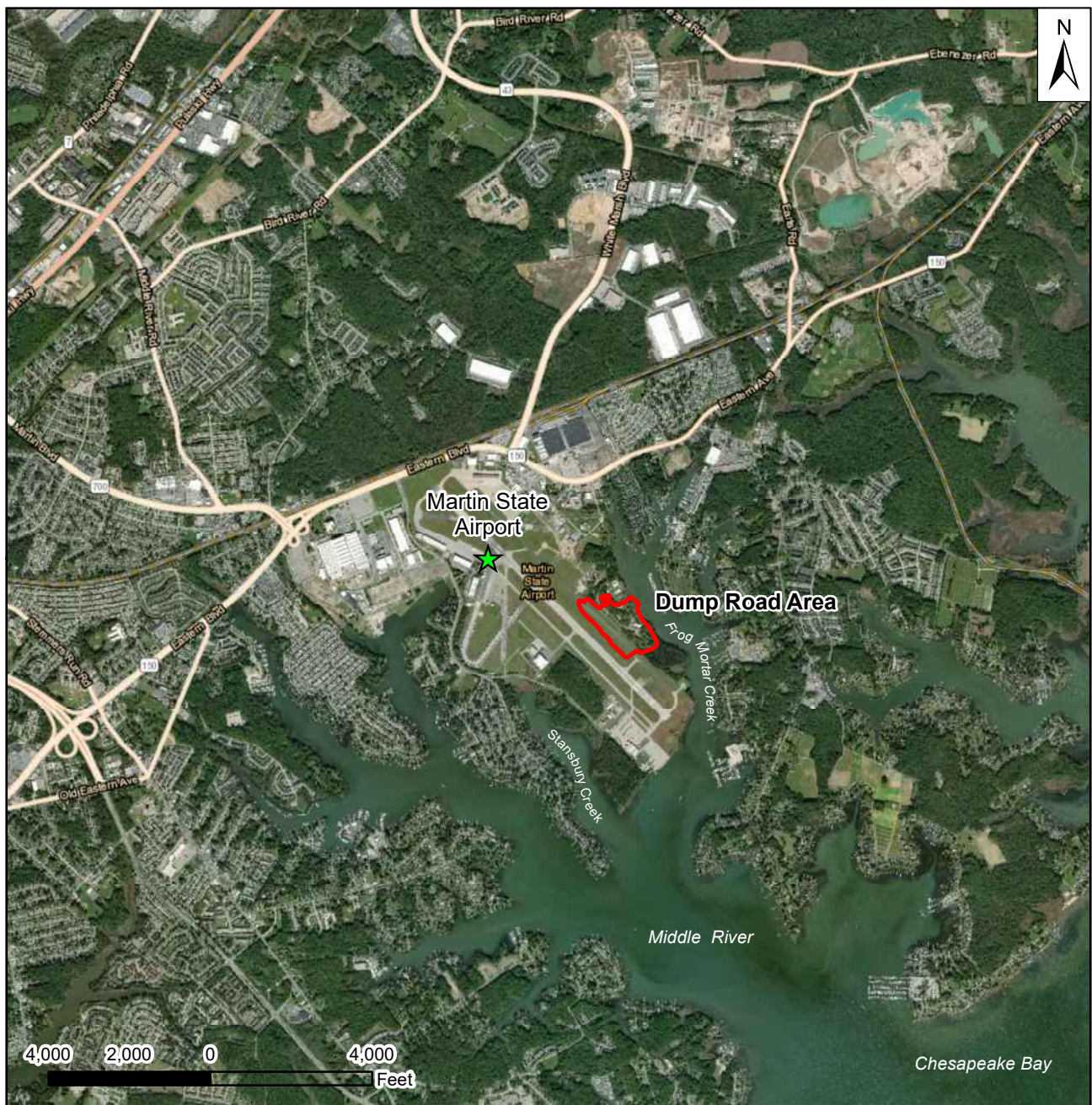
Figure 3-1 August 2018 Surface Water Sampling Locations, Frog Mortar Creek

Figure 4-1 Concentrations of Trichloroethene in Surface Water Samples, August 2018, Frog Mortar Creek

Figure 4-2 Concentrations of cis-1,2-Dichloroethene in Surface Water Samples, August 2018, Frog Mortar Creek

Figure 4-3 Concentrations of Vinyl Chloride in Surface Water Samples, August 2018, Frog Mortar Creek

Figure 4-4 Concentrations of Trichloroethene, cis-1,2-Dichloroethene, and Vinyl Chloride along Surface Water Sampling Transects for August 2017, July 2018, and August 2018, Frog Mortar Creek



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

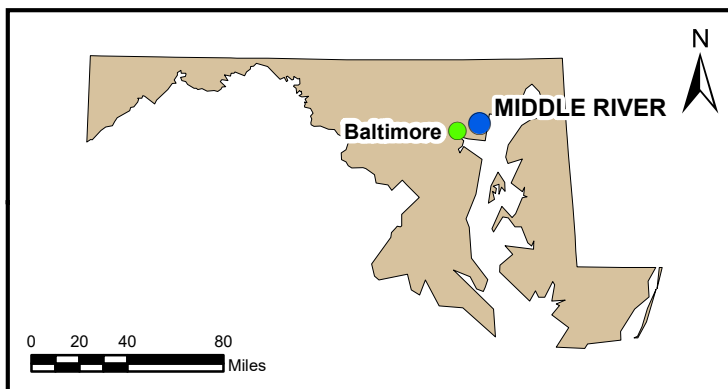


**FIGURE 1-1
MARTIN STATE AIRPORT
DUMP ROAD AREA AND FROG
MORTAR CREEK LOCATION MAP**

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

DATE MODIFIED: 09/10/18

CREATED BY: JEE





2017 aerial photograph provided by the State of Maryland.

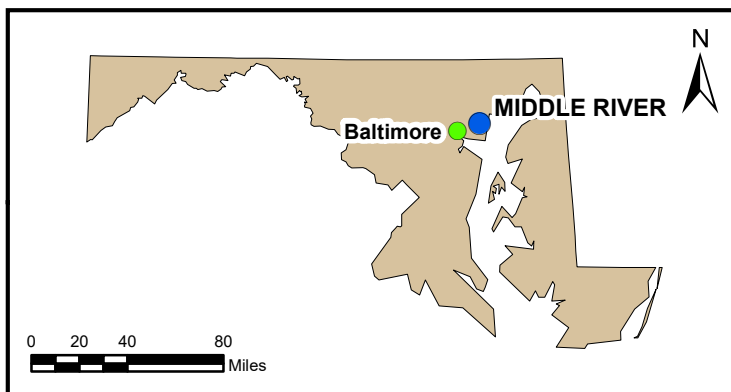


FIGURE 2-1

MARTIN STATE AIRPORT AND SURROUNDING FEATURES

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

DATE MODIFIED:

09/12/18

CREATED BY:

JEE













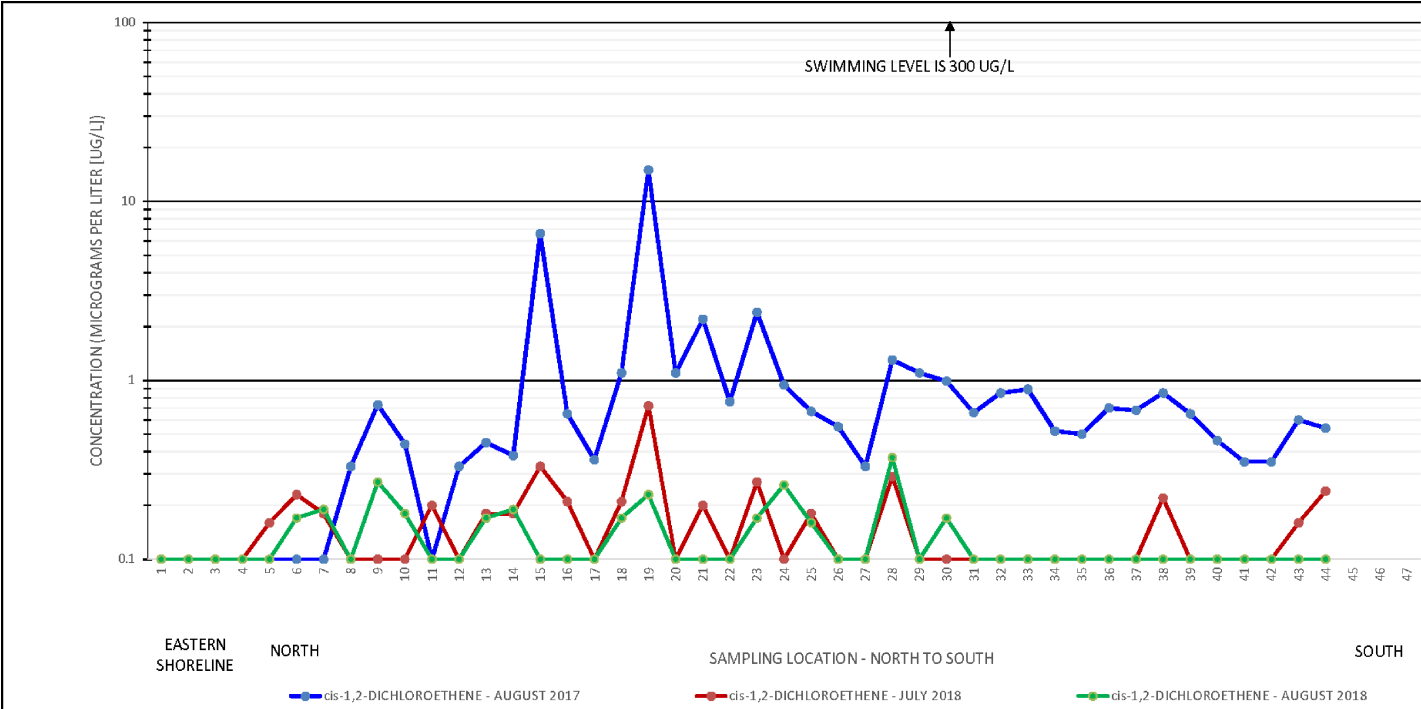
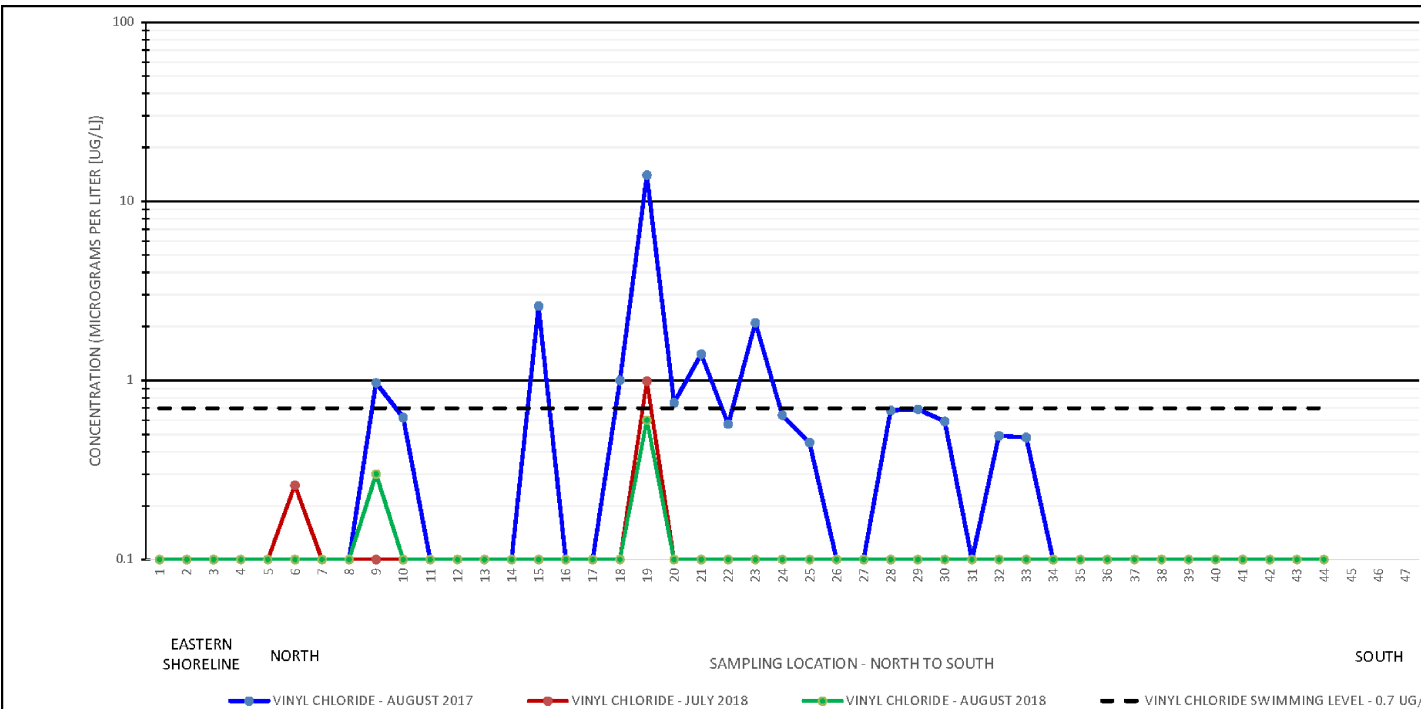
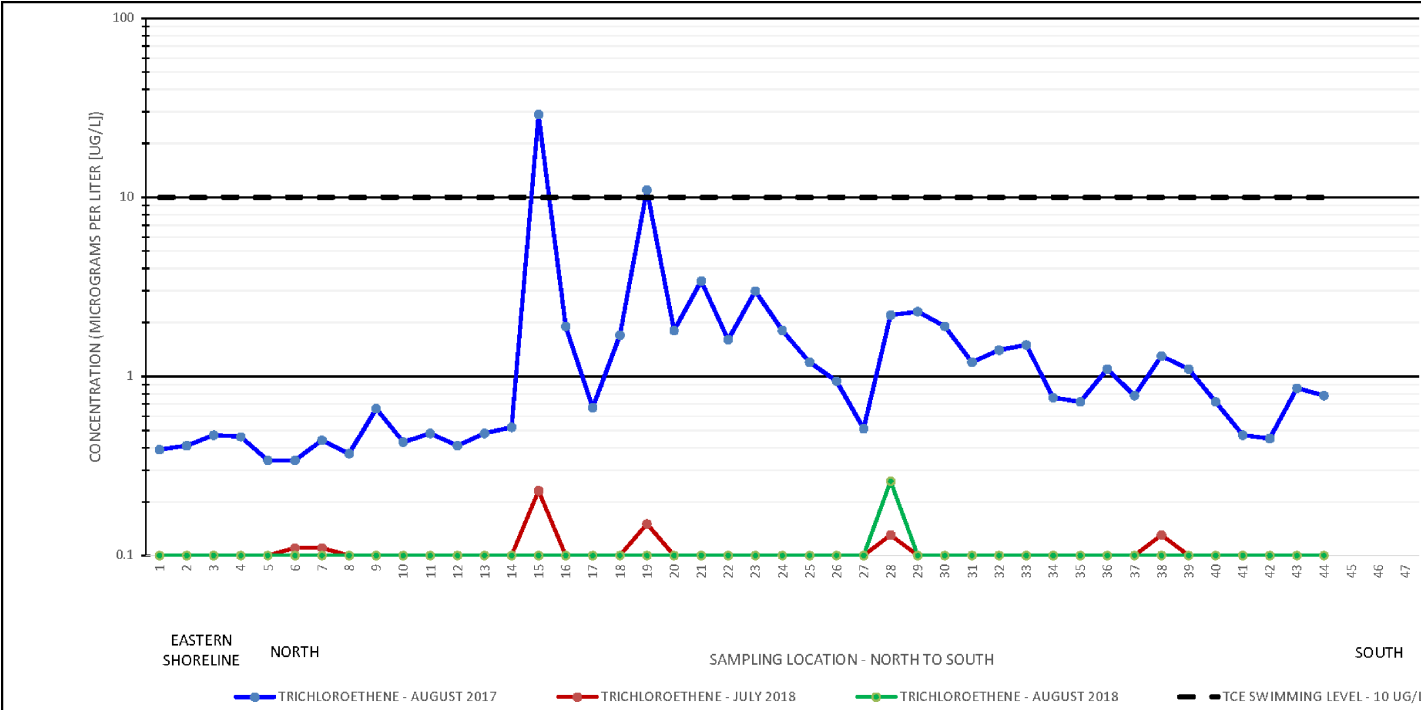


FIGURE 4-4

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



Lockheed Martin, Martin State Airport
Middle River, Maryland

DATE MODIFIED:
11/01/18

CREATED BY:
JEE



TABLES

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

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

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

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

Table 3-1

List of Samples and Chemical Analyses for Surface Water-August 2018
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

Table 4-1

Summary of Analytes Detected in Surface Water Samples—August 2018

Frog Mortar Creek

Martin State Airport, Middle River, Maryland

Page 1 of 2

Parameter	August 2018 Frog Mortar Creek Surface Water Samples									
	Frequency		Minimum Concentration Detected	Maximum Concentration Detected	Location of Maximum Concentration Detected	Average of Detected Results	Average of All Results	Minimum Concentration Nondetects	Maximum Concentration Nondetects	Standard Deviation
	Number	Percent								
Volatile organic compounds (µg/L)										
1,2,4-TRICHLOROBENZENE	2/44	5	0.35 J	0.36 J	MSA-SW38B	0.355	0.140227	0.26	0.26	0.047421349
1,3-DICHLOROBENZENE	1/44	2	0.17 J	0.17 J	MSA-SW38A	0.17	0.077159	0.15	0.15	0.014321789
1,4-DICHLOROBENZENE	2/44	5	0.4 J	0.65 J	MSA-SW38A	0.525	0.100227	0.16	0.16	0.097563066
ACETONE	8/44	18	5.5	7.9	MSA-SW41A	6.5	3.390909	5.4	5.4	1.529830236
BENZENE	1/44	2	0.17 J	0.17 J	MSA-SW49A	0.17	0.067386	0.13	0.13	0.015829346
CHLOROMETHANE	5/44	11	0.21 J	0.45 J	MSA-SW46A	0.326	0.125681	0.2	0.2	0.079193544
CIS-1,2-DICHLOROETHENE	13/44	30	0.16 J	0.37 J	MSA-SW49A	0.207692	0.117727	0.16	0.16	0.067094645
M+P-XYLENES	2/44	5	0.11 J	0.19 J	MSA-SW49A	0.15	0.045	0.08	0.08	0.024731112
TOLUENE	4/44	9	0.14 J	0.32 J	MSA-SW49A	0.2	0.081818	0.14	0.14	0.043948846
TOTAL XYLENES	1/44	2	0.19 J	0.19 J	MSA-SW49A	0.19	0.077613	0.15	0.15	0.017336902
TRICHLOROETHENE	1/44	2	0.26 J	0.26 J	MSA-SW49A	0.26	0.054772	0.1	0.1	0.031658691
VINYL CHLORIDE	2/44	5	0.3 J	0.6	MSA-SW38A	0.45	0.115909	0.2	0.2	0.080530745
Dissolved (filtered) metals (µg/L)										
ANTIMONY	2/36	6	0.71 J	1.3 J	MSA-SW37B	1.005	0.325	0.57	0.57	0.181521349
ARSENIC	36/36	100	1.2 J	2.4 J	MSA-SW43D,44D	1.972222	1.972222	NULL	NULL	0.331758183
BARIUM	36/36	100	11	13	MSA-SW45A	11.611111	11.611111	NULL	NULL	0.549169647
BERYLLIUM	Jan-36	3	0.36 J	0.36 J	MSA-SW37B	0.36	0.160694	0.31	0.31	0.034166667
CADMIUM	1/36	3	0.21 J	0.21 J	MSA-SW37A	0.21	0.107916	0.21	0.21	0.0175
CHROMIUM	36/36	100	2.2	2.9 J+	MSA-SW44,44D,45A	2.555555	2.555555	NULL	NULL	0.203462098
COBALT	5/36	14	0.19 J	0.32 J	MSA-SW44A,45A	0.266	0.11875	0.19	0.19	0.0632046
COPPER	36/36	100	3.5	15	MSA-SW45B	6.816666	6.816666	NULL	NULL	2.247601897
LEAD	3/36	8	0.61 J	0.65 J	MSA-SW37A	0.626666	0.258472	0.45	0.45	0.11269947
MOLYBDENUM	36/36	100	1.6 J	2 J	MSA-SW43D,45D	1.833333	1.833333	NULL	NULL	0.082807867
NICKEL	18/36	50	1.5 J	1.9 J	MSA-SW41B,44A	1.627777	1.188888	1.5	1.5	0.455146932
SELENIUM	9/36	25	0.98 J	1.4 J	MSA-SW37B	1.108888	0.610972	0.89	0.89	0.297068581
VANADIUM	20/36	56	1.4 J	2.1 J	MSA-SW37A	1.66	1.327777	1.5	2.2	0.403811208
Miscellaneous (mg/L)										
CALCIUM HARDNESS as CaCO ₃	36/36	100	41	50	MSA-SW39A	45.111111	45.111111	NULL	NULL	2.067127445
HARDNESS as CaCO ₃	36/36	100	180	210	MSA-SW43D,45A,45B,45D	192.777777	192.77778	NULL	NULL	9.742722151
MAGNESIUM HARDNESS as CaCO ₃	36/36	100	130	170	MSA-SW45A	148.055555	148.05556	NULL	NULL	9.202311649

All samples were collected on 08/08/2018

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

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

J - estimated value

µg/L - micrograms per liter

mg/L - milligrams per liter

Table 4-1

Summary of Analytes Detected in Surface Water Samples—August 2018
Frog Mortar Creek
Martin State Airport, Middle River, Maryland
Page 2 of 2

Associated Samples:

sample_id	sacode		
EL-SW01A-080718	NORMAL	MSA-SW41C-080718	NORMAL
EL-SW01B-080718	NORMAL	MSA-SW41D-080718	NORMAL
EL-SW01C-080718	NORMAL	MSA-SW42A-080718	NORMAL
EL-SW01D-080718	NORMAL	MSA-SW42B-080718	NORMAL
MSA-SW37A-080718	NORMAL	MSA-SW42C-080718	NORMAL
MSA-SW37B-080718	NORMAL	MSA-SW42D-080718	NORMAL
MSA-SW37C-080718	NORMAL	MSA-SW43A-080718	NORMAL
MSA-SW37D-080718	NORMAL	MSA-SW43B-080718	NORMAL
MSA-SW38A-080718	NORMAL	MSA-SW43C-080718	NORMAL
MSA-SW38B-080718	NORMAL	MSA-SW43D-080718	NORMAL
MSA-SW38C-080718	NORMAL	MSA-SW44A-080718	NORMAL
MSA-SW38D-080718	NORMAL	MSA-SW44B-080718	NORMAL
MSA-SW39A-080718	NORMAL	MSA-SW44C-080718	NORMAL
MSA-SW39B-080718	NORMAL	MSA-SW44D-080718	NORMAL
MSA-SW39C-080718	NORMAL	MSA-SW45A-080718	NORMAL
MSA-SW39D-080718	NORMAL	MSA-SW45B-080718	NORMAL
MSA-SW40A-080718	NORMAL	MSA-SW45C-080718	NORMAL
MSA-SW40B-080718	NORMAL	MSA-SW45D-080718	NORMAL
MSA-SW40C-080718	NORMAL	MSA-SW46A-080718	NORMAL
MSA-SW40D-080718	NORMAL	MSA-SW47A-080718	NORMAL
MSA-SW41A-080718	NORMAL	MSA-SW48A-080718	NORMAL
MSA-SW41B-080718	NORMAL	MSA-SW49A-080718	NORMAL

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—August 2018

Frog Mortar Creek

Martin State Airport, Middle River, Maryland

Page 1 of 5

LOCATION	National Recommended Water Quality Criteria ⁽¹⁾		Ecologic al Surface Water Screenin g Level ⁽²⁾	Human Health Consumption of Organism Only ⁽¹⁾⁽³⁾	Swimmin g Screening	EL-SW01A	EL-SW01B	EL-SW01C	EL-SW01D	MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW37D	MSA-SW38A	MSA-SW38B
SAMPLE ID	Quality Criteria ⁽¹⁾		g Level ⁽²⁾	Only ⁽¹⁾⁽³⁾	Screening	EL-SW01A-080718	EL-SW01B-080718	EL-SW01C-080718	EL-SW01D-080718	MSA-SW37A-080718	MSA-SW37B-080718	MSA-SW37C-080718	MSA-SW37D-080718	MSA-SW38A-080718	MSA-SW38B-080718
SAMPLE DATE	Acute	Chronic				20180807	20180807	20180807	20180807	20180807	20180807	20180807	20180807	20180807	20180807
Volatile organic compounds (µg/L)															
1,2,4-TRICHLOROBENZENE	NA	NA	24	0.076	NA	--	--	--	--	--	--	--	--	0.35 J	0.36 J
1,3-DICHLOROBENZENE	NA	NA	150	10	NA	--	--	--	--	--	--	--	--	0.17 J	--
1,4-DICHLOROBENZENE	NA	NA	26	900	NA	--	--	--	--	--	--	--	--	0.65 J	0.4 J
ACETONE	NA	NA	1500	NA	NA	--	--	--	--	--	--	--	--	7.4	--
BENZENE	NA	NA	370	16	NA	--	--	--	--	--	--	--	--	--	--
CHLOROMETHANE	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	--	--
CIS-1,2-DICHLOROETHENE	NA	NA	590	NA	300	--	--	--	--	--	0.17 J	0.19 J	--	0.23 J	--
M+P-XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--	0.11 J	--
TOLUENE	NA	NA	2	1500	NA	0.2 J	--	--	--	--	--	--	--	0.14 J	--
TOTAL XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--	--	--
TRICHLOROETHENE	NA	NA	21	7	10	--	--	--	--	--	--	--	--	--	--
VINYL CHLORIDE	NA	NA	930	24	0.7	--	--	--	--	--	--	--	--	0.6	--
Dissolved (filtered) metals (µg/L)															
ANTIMONY	NA	NA	30	640	NA	NA	NA	NA	NA	0.71 J	1.3 J	--	--	--	--
ARSENIC	340	150	5	0.14	NA	NA	NA	NA	NA	1.9 J	2.1 J	1.5 J	1.5 J	2 J	1.6 J
BARIUM	NA	NA	4	NA	NA	NA	NA	NA	NA	12	11	11	11	11	11
BERYLLIUM	NA	NA	0.66	NA	NA	NA	NA	NA	NA	--	0.36 J	--	--	--	--
CADMIUM	3.31	0.37	0.37	NA	NA	NA	NA	NA	NA	0.21 J	--	--	--	--	--
CHROMIUM	922	119	119	NA	NA	NA	NA	NA	NA	2.5	2.7	2.5	2.5	2.4	2.3
COBALT	NA	NA	23	NA	NA	NA	NA	NA	NA	0.28 J	0.22 J	--	--	--	--
COPPER	23.38	14.8	14.8	NA	NA	NA	NA	NA	NA	6.5	14	6.4	6.6	6	5.9
LEAD	121	4.74	4.74	NA	NA	NA	NA	NA	NA	0.65 J	0.61 J	--	--	--	--
MOLYBDENUM	NA	NA	73	NA	NA	NA	NA	NA	NA	1.9 J	1.9 J	1.8 J	1.8 J	1.8 J	1.7 J
NICKEL	769	85	85	4600	NA	NA	NA	NA	NA	1.7 J	1.7 J	1.5 J	1.6 J	--	--
SELENIUM	NA	5	1	4200	NA	NA	NA	NA	NA	1.1 J	1.4 J	1.1 J	--	--	--
VANADIUM	NA	NA	20	NA	NA	NA	NA	NA	NA	2.1 J	1.9 J	1.5 J	1.6 J	1.7 J	1.6 J
Miscellaneous parameters															
CALCIUM HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	NA	NA	NA	NA	44	43	44	44	45	42
HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	NA	NA	NA	NA	180	180	180	180	190	180
MAGNESIUM HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	NA	NA	NA	NA	130	140	130	140	140	140

Gray shading indicates a result that exceeds a screening criterion.

-- not detected
 CaCO₃ - calcium carbonate
 EL - Edwards Lane
 J - estimated result
 µg/L - micrograms per liter

mg/L - milligrams per liter
 NJ - unidentified compound estimated value
 MSA - Martin State Airport
 NA - not analyzed or not available
 SW - surface water

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—August 2018

Frog Mortar Creek

Martin State Airport, Middle River, Maryland

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LOCATION	National Recommended Water Quality Criteria ⁽¹⁾		Ecologic al Surface Water Screenin g Level ⁽²⁾	Human Health Consumptio n of Organism Only ⁽¹⁾⁽³⁾	Swimmin g Screening	MSA-SW38C	MSA-SW38D	MSA-SW39A	MSA-SW39B	MSA-SW39C	MSA-SW39D	MSA-SW40A	MSA-SW40B	MSA-SW40C	MSA-SW40D
SAMPLE ID	Quality Criteria ⁽¹⁾		g Level ⁽²⁾	Only ⁽¹⁾⁽³⁾	Screening	MSA-SW38C-080718	MSA-SW38D-080718	MSA-SW39A-080718	MSA-SW39B-080718	MSA-SW39C-080718	MSA-SW39D-080718	MSA-SW40A-080718	MSA-SW40B-080718	MSA-SW40C-080718	MSA-SW40D-080718
SAMPLE DATE	Acute	Chronic				20180807	20180807	20180807	20180807	20180807	20180807	20180807	20180807	20180807	20180807
Volatile organic compounds (µg/L)															
1,2,4-TRICHLOROBENZENE	NA	NA	24	0.076	NA	--	--	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	NA	NA	150	10	NA	--	--	--	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	NA	NA	26	900	NA	--	--	--	--	--	--	--	--	--	--
ACETONE	NA	NA	1500	NA	NA	--	--	--	--	6	5.8	--	--	--	--
BENZENE	NA	NA	370	16	NA	--	--	--	--	--	--	--	--	--	--
CHLOROMETHANE	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	--	--
CIS-1,2-DICHLOROETHENE	NA	NA	590	NA	300	--	--	--	--	--	--	0.19 J	--	--	--
M+P-XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--	--	--
TOLUENE	NA	NA	2	1500	NA	--	--	--	--	--	--	--	--	--	--
TOTAL XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--	--	--
TRICHLOROETHENE	NA	NA	21	7	10	--	--	--	--	--	--	--	--	--	--
VINYL CHLORIDE	NA	NA	930	24	0.7	--	--	--	--	--	--	--	--	--	--
Dissolved (filtered) metals (µg/L)															
ANTIMONY	NA	NA	30	640	NA	--	--	--	--	--	--	--	--	--	--
ARSENIC	340	150	5	0.14	NA	2.1 J	1.6 J	1.8 J	1.6 J	1.2 J	1.4 J	2 J	1.5 J	1.7 J	1.9 J
BARIUM	NA	NA	4	NA	NA	12	12	12	11	11	11	12	12	11	11
BERYLLIUM	NA	NA	0.66	NA	NA	--	--	--	--	--	--	--	--	--	--
CADMIUM	3.31	0.37	0.37	NA	NA	--	--	--	--	--	--	--	--	--	--
CHROMIUM	922	119	119	NA	NA	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.2	2.5
COBALT	NA	NA	23	NA	NA	--	--	--	--	--	--	--	--	--	--
COPPER	23.38	14.8	14.8	NA	NA	6.8	6.7	3.5	9.8	4.3	4	6.4	6.5	6.1	7.7
LEAD	121	4.74	4.74	NA	NA	--	--	--	--	--	--	--	--	--	--
MOLYBDENUM	NA	NA	73	NA	NA	1.8 J	1.8 J	1.6 J	1.9 J	1.8 J	1.8 J	1.8 J	1.8 J	1.7 J	1.9 J
NICKEL	769	85	85	4600	NA	1.5 J	1.7 J	--	1.5 J	--	--	--	--	--	1.8 J
SELENIUM	NA	5	1	4200	NA	1.1 J	0.98 J	1.1 J	1 J	1.1 J	1.1 J	--	--	--	--
VANADIUM	NA	NA	20	NA	NA	1.4 J	1.8 J	1.5 J	1.5 J	1.5 J	1.5 J	1.7 J	1.8 J	1.6 J	1.7 J
Miscellaneous parameters															
CALCIUM HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	47	47	50	44	42	41	45	44	42	43
HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	200	200	200	200	200	200	190	190	180	180
MAGNESIUM HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	150	150	150	160	160	160	150	150	140	140

Gray shading indicates a result that exceeds a screening criterion.

-- not detected
 CaCO₃ - calcium carbonate
 EL - Edwards Lane
 J - estimated result
 µg/L - micrograms per liter

mg/L - milligrams per liter
 NJ - unidentified compound estimated value
 MSA - Martin State Airport
 NA - not analyzed or not available
 SW - surface water

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—August 2018

Frog Mortar Creek

Martin State Airport, Middle River, Maryland

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LOCATION	National Recommended Water Quality Criteria ⁽¹⁾		Ecologic al Surface Water Screenin g Level ⁽²⁾	Human Health Consumptio n of Organism Only ⁽¹⁾⁽³⁾	Swimmin g Screening	MSA-SW41A	MSA-SW41B	MSA-SW41C	MSA-SW41D	MSA-SW42A	MSA-SW42B	MSA-SW42C	MSA-SW42D	MSA-SW43A	MSA-SW43B
SAMPLE ID	Quality Criteria ⁽¹⁾		g Level ⁽²⁾	Only ⁽¹⁾⁽³⁾	Screening	MSA-SW41A-080718	MSA-SW41B-080718	MSA-SW41C-080718	MSA-SW41D-080718	MSA-SW42A-080718	MSA-SW42B-080718	MSA-SW42C-080718	MSA-SW42D-080718	MSA-SW43A-080718	MSA-SW43B-080718
SAMPLE DATE	Acute	Chronic				20180807	20180807	20180807	20180807	20180807	20180807	20180807	20180807	20180807	20180807
Volatile organic compounds (µg/L)															
1,2,4-TRICHLOROBENZENE	NA	NA	24	0.076	NA	--	--	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	NA	NA	150	10	NA	--	--	--	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	NA	NA	26	900	NA	--	--	--	--	--	--	--	--	--	--
ACETONE	NA	NA	1500	NA	NA	7.9	--	5.9	--	--	--	--	--	--	--
BENZENE	NA	NA	370	16	NA	--	--	--	--	--	--	--	--	--	--
CHLOROMETHANE	NA	NA	NA	NA	NA	--	0.42 J	--	--	--	--	0.21 J	--	0.29 J	--
CIS-1,2-DICHLOROETHENE	NA	NA	590	NA	300	0.26 J	0.16 J	--	--	0.27 J	0.18 J	--	--	--	0.17 J
M+P-XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--	--	--
TOLUENE	NA	NA	2	1500	NA	--	--	0.14 J	--	--	--	--	--	--	--
TOTAL XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--	--	--
TRICHLOROETHENE	NA	NA	21	7	10	--	--	--	--	--	--	--	--	--	--
VINYL CHLORIDE	NA	NA	930	24	0.7	--	--	--	--	0.3 J	--	--	--	--	--
Dissolved (filtered) metals (µg/L)															
ANTIMONY	NA	NA	30	640	NA	--	--	--	--	--	--	--	--	--	--
ARSENIC	340	150	5	0.14	NA	1.7 J	1.6 J	2 J	2 J	2.3 J	2.2 J	2.3 J	2.2 J	2.3 J	2.2 J
BARIUM	NA	NA	4	NA	NA	11	11	12	12	11	11	12	12	12	12
BERYLLIUM	NA	NA	0.66	NA	NA	--	--	--	--	--	--	--	--	--	--
CADMIUM	3.31	0.37	0.37	NA	NA	--	--	--	--	--	--	--	--	--	--
CHROMIUM	922	119	119	NA	NA	2.3	2.3	2.2	2.3	2.6 J+	2.5 J+	2.6 J+	2.7 J+	2.6 J+	2.7 J+
COBALT	NA	NA	23	NA	NA	--	--	--	--	0.19 J	--	--	--	--	--
COPPER	23.38	14.8	14.8	NA	NA	6	9.4	6.4	6.6	6	6.5	6.4	6.4	6.4	6.6
LEAD	121	4.74	4.74	NA	NA	--	--	--	--	--	--	--	--	--	--
MOLYBDENUM	NA	NA	73	NA	NA	1.8 J	1.7 J	1.9 J	1.9 J	1.9 J	1.8 J	1.8 J	1.9 J	1.8 J	1.8 J
NICKEL	769	85	85	4600	NA	--	1.9 J	--	--	--	1.6 J	--	--	--	1.5 J
SELENIUM	NA	5	1	4200	NA	--	--	--	--	--	--	--	--	--	--
VANADIUM	NA	NA	20	NA	NA	1.8 J	1.8 J	1.6 J	1.6 J	--	--	--	--	--	--
Miscellaneous parameters															
CALCIUM HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	44	42	45	45	46	46	46	45	45	46
HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	190	180	190	190	190	190	190	180	190	200
MAGNESIUM HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	150	140	150	150	140	140	140	140	140	150

Gray shading indicates a result that exceeds a screening criterion.

-- not detected
 CaCO₃ - calcium carbonate
 EL - Edwards Lane
 J - estimated result
 µg/L - micrograms per liter

mg/L - milligrams per liter
 NJ - unidentified compound estimated value
 MSA - Martin State Airport
 NA - not analyzed or not available
 SW - surface water

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—August 2018

Frog Mortar Creek

Martin State Airport, Middle River, Maryland

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LOCATION	National Recommended Water Quality Criteria ⁽¹⁾		Ecologic al Surface Water Screenin g Level ⁽²⁾	Human Health Consumptio n of Organism Only ⁽¹⁾⁽³⁾	Swimmin g Screening	MSA-SW43C	MSA-SW43D	MSA-SW44A	MSA-SW44B	MSA-SW44C	MSA-SW44D	MSA-SW45A	MSA-SW45B	MSA-SW45C	MSA-SW45D
SAMPLE ID	Quality Criteria ⁽¹⁾		g Level ⁽²⁾	Only ⁽¹⁾⁽³⁾	Screening	MSA-SW43C-080718	MSA-SW43D-080718	MSA-SW44A-080718	MSA-SW44B-080718	MSA-SW44C-080718	MSA-SW44D-080718	MSA-SW45A-080718	MSA-SW45B-080718	MSA-SW45C-080718	MSA-SW45D-080718
SAMPLE DATE	Acute	Chronic				20180807	20180807	20180807	20180807	20180807	20180807	20180807	20180807	20180807	20180807
Volatile organic compounds (µg/L)															
1,2,4-TRICHLOROBENZENE	NA	NA	24	0.076	NA	--	--	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	NA	NA	150	10	NA	--	--	--	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	NA	NA	26	900	NA	--	--	--	--	--	--	--	--	--	--
ACETONE	NA	NA	1500	NA	NA	--	--	--	--	--	--	--	--	6	5.5
BENZENE	NA	NA	370	16	NA	--	--	--	--	--	--	--	--	--	--
CHLOROMETHANE	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	--	--	--
CIS-1,2-DICHLOROETHENE	NA	NA	590	NA	300	--	--	--	--	--	--	--	--	--	--
M+P-XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--	--	--
TOLUENE	NA	NA	2	1500	NA	--	--	--	--	--	--	--	--	--	--
TOTAL XYLENES	NA	NA	13	NA	NA	--	--	--	--	--	--	--	--	--	--
TRICHLOROETHENE	NA	NA	21	7	10	--	--	--	--	--	--	--	--	--	--
VINYL CHLORIDE	NA	NA	930	24	0.7	--	--	--	--	--	--	--	--	--	--
Dissolved (filtered) metals (µg/L)															
ANTIMONY	NA	NA	30	640	NA	--	--	--	--	--	--	--	--	--	--
ARSENIC	340	150	5	0.14	NA	2.3 J	2.4 J	2.3 J	2.3 J	2.2 J	2.4 J	2.2 J	2.2 J	2.2 J	2.3 J
BARIUM	NA	NA	4	NA	NA	12	12	12	12	11	12	13	12	12	12
BERYLLIUM	NA	NA	0.66	NA	NA	--	--	--	--	--	--	--	--	--	--
CADMIUM	3.31	0.37	0.37	NA	NA	--	--	--	--	--	--	--	--	--	--
CHROMIUM	922	119	119	NA	NA	2.8 J+	2.8 J+	2.9 J+	2.8 J+	2.7 J+	2.9 J+	2.9 J+	2.8 J+	2.7 J+	2.8 J+
COBALT	NA	NA	23	NA	NA	--	--	0.32 J	--	--	--	0.32 J	--	--	--
COPPER	23.38	14.8	14.8	NA	NA	6.9	7	6.9	6.6	6.7	7	3.7	15	5.7	6
LEAD	121	4.74	4.74	NA	NA	--	--	--	--	--	--	--	0.62 J	--	--
MOLYBDENUM	NA	NA	73	NA	NA	1.9 J	2 J	1.9 J	1.8 J	1.8 J	1.9 J	1.8 J	1.9 J	1.9 J	2 J
NICKEL	769	85	85	4600	NA	1.5 J	1.6 J	1.9 J	--	--	1.5 J	1.7 J	1.6 J	--	1.5 J
SELENIUM	NA	5	1	4200	NA	--	--	--	--	--	--	--	--	--	--
VANADIUM	NA	NA	20	NA	NA	--	--	--	--	--	--	--	--	--	--
Miscellaneous parameters															
CALCIUM HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	47	49	46	45	45	47	49	46	46	47
HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	200	210	200	190	190	200	210	210	200	210
MAGNESIUM HARDNESS as CaCO ₃	NA	NA	NA	NA	NA	150	160	150	150	150	150	170	160	160	160

Gray shading indicates a result that exceeds a screening criterion.

-- not detected
 CaCO₃ - calcium carbonate
 EL - Edwards Lane
 J - estimated result
 µg/L - micrograms per liter

mg/L - milligrams per liter
 NJ - unidentified compound estimated value
 MSA - Martin State Airport
 NA - not analyzed or not available
 SW - surface water

Table 4-2

Detected Analytes and Screening-Level Exceedances in Surface Water Samples—August 2018

Frog Mortar Creek

Martin State Airport, Middle River, Maryland

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LOCATION	National Recommended Water Quality Criteria ⁽¹⁾		Ecologic al Surface Water Screenin g Level ⁽²⁾	Human Health Consumptio n of Organism Only ⁽¹⁾⁽³⁾	Swimmin g Screening	MSA-SW46A 080718 20180807	MSA-SW47A 080718 20180807	MSA-SW48A 080718 20180807	MSA-SW49A 080718 20180807
SAMPLE ID	Acute	Chronic							
SAMPLE DATE									
Volatile organic compounds (µg/L)									
1,2,4-TRICHLOROBENZENE	NA	NA	24	0.076	NA	--	--	--	--
1,3-DICHLOROBENZENE	NA	NA	150	10	NA	--	--	--	--
1,4-DICHLOROBENZENE	NA	NA	26	900	NA	--	--	--	--
ACETONE	NA	NA	1500	NA	NA	--	--	--	7.5
BENZENE	NA	NA	370	16	NA	--	--	--	0.17 J
CHLOROMETHANE	NA	NA	NA	NA	NA	0.45 J	0.26 J	--	--
CIS-1,2-DICHLOROETHENE	NA	NA	590	NA	300	0.17 J	0.17 J	0.17 J	0.37 J
M+P-XYLENES	NA	NA	13	NA	NA	--	--	--	0.19 J
TOLUENE	NA	NA	2	1500	NA	--	--	--	0.32 J
TOTAL XYLENES	NA	NA	13	NA	NA	--	--	--	0.19 J
TRICHLOROETHENE	NA	NA	21	7	10	--	--	--	0.26 J
VINYL CHLORIDE	NA	NA	930	24	0.7	--	--	--	--
Dissolved (filtered) metals (µg/L)									
ANTIMONY	NA	NA	30	640	NA	NA	NA	NA	NA
ARSENIC	340	150	5	0.14	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	3.31	0.37	0.37	NA	NA	NA	NA	NA	NA
CHROMIUM	922	119	119	NA	NA	NA	NA	NA	NA
COBALT	NA	NA	23	NA	NA	NA	NA	NA	NA
COPPER	23.38	14.8	14.8	NA	NA	NA	NA	NA	NA
LEAD	121	4.74	4.74	NA	NA	NA	NA	NA	NA
MOLYBDENUM	NA	NA	73	NA	NA	NA	NA	NA	NA
NICKEL	769	85	85	4600	NA	NA	NA	NA	NA
SELENIUM	NA	5	1	4200	NA	NA	NA	NA	NA
VANADIUM	NA	NA	20	NA	NA	NA	NA	NA	NA
Miscellaneous parameters									
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

Gray shading indicates a result that exceeds a screening criterion.

-- not detected
 CaCO₃ - calcium carbonate
 EL - Edwards Lane
 J - estimated result
 µg/L - micrograms per liter

mg/L - milligrams per liter
 NJ - unidentified compound estimated value
 MSA - Martin State Airport
 NA - not analyzed or not available
 SW - surface water

- 1 National Recommended Water Quality Criteria, <http://water.epa.gov/scitech/swguidance/standards/current/index.cfm>; and Maryland Numerical Criteria for Toxic Substances in Surface Waters, Code of Maryland Regulations (COMAR) 26.08.02.03, <http://www.dsd.state.md.us/comar/comarhtml/26/26.08.02.03-2.htm>
- 2 United State Environmental Protection Agency (USEPA) Region 3 Biological Technical Advisory Group (BTAG) Freshwater Screening Benchmarks
- 3 For carcinogens, criterion is for incremental cancer risk of 1x10⁻⁵
- 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 and 2006), the option to use site-specific hardness was used to adjust this criterion instead of the standard hardness concentration of 100 mg/L. As recommended by USEPA (2002), a hardness value of 400 mg/L is used when the minimum measured site-specific hardness is greater than 400 mg/L. (The minimum hardness is 180 mg/L for August 2018 sampling; therefore, 180 mg/L was used for conversion).

Table 4-3

Surface Water Chemical Results for Primary Volatile Organic Compounds for August 2017, July 2018, and August 2018

Page 1 of 1

Location ID	Trichloroethene concentrations (µg/L)			c/s -1,2-Dichloroethene concentrations (µg/L)			Vinyl chloride concentrations (µg/L)		
	August 16, 2017	July 9, 2018	Aug 7, 2018	August 16, 2017	July 9, 2018	Aug 7, 2018	August 16, 2017	July 9, 2018	Aug 7, 2018
Average-Detections	1.9	0.1433	0.26	1.3	0.2447	0.2077	1.8	0.625	0.45
Average-All Samples ¹⁾	1.9	0.0627	0.0547	1.1	0.1436	0.1177	0.78	0.1239	0.1159
Maximum Concentration	29	0.23 J	0.26 J	15	0.72 J	0.37 J	14	0.99	0.6
No. of Detections/Samples	44/44	6/44	1/44	36/44	17/44	13/44	16/44	2/44	2/44
EL-SW01A	0.39 J	--	--	--	--	--	--	--	--
EL-SW01B	0.41 J	--	--	--	--	--	--	--	--
EL-SW01C	0.47 J	--	--	--	--	--	--	--	--
EL-SW01D	0.46 J	--	--	--	--	--	--	--	--
MSA-SW37A	0.34 J	--	--	--	0.16 J	--	--	--	--
MSA-SW37B	0.34 J	0.11 J	--	--	0.23 J	0.17 J	--	0.26 J	--
MSA-SW37C	0.44 J	0.11 J	--	--	0.18 J	0.19 J	--	--	--
MSA-SW37D	0.37 J	--	--	0.33 J	--	--	--	--	--
MSA-SW38A	11	0.15 J	--	15	0.72 J	0.23 J	14	0.99	0.6
MSA-SW38B	1.8	--	--	1.1	--	--	0.75	--	--
MSA-SW38C	3.4	--	--	2.2	0.2 J	--	1.4	--	--
MSA-SW38D	1.6	--	--	0.76 J	--	--	0.57	--	--
MSA-SW39A	0.47 J	--	--	0.35 J	--	--	--	--	--
MSA-SW39B	0.45 J	--	--	0.35 J	--	--	--	--	--
MSA-SW39C	0.86 J	--	--	0.6 J	0.16 J	--	--	--	--
MSA-SW39D	0.78 J	--	--	0.54 J	0.24 J	--	--	--	--
MSA-SW40A	0.52 J	--	--	0.38 J	0.18 J	0.19 J	--	--	--
MSA-SW40B	29	0.23 J	--	6.6	0.33 J	--	2.6	--	--
MSA-SW40C	1.9	--	--	0.65 J	0.21 J	--	--	--	--
MSA-SW40D	0.67 J	--	--	0.36 J	--	--	--	--	--
MSA-SW41A	1.8	--	--	0.94 J	--	0.26 J	0.64	--	--
MSA-SW41B	1.2	--	--	0.67 J	0.18 J	0.16 J	0.45 J	--	--
MSA-SW41C	0.94 J	--	--	0.55 J	--	--	--	--	--
MSA-SW41D	0.51 J	--	--	0.33 J	--	--	--	--	--
MSA-SW42A	0.66 J	--	--	0.73 J	--	0.27 J	0.97	--	0.3 J
MSA-SW42B	0.43 J	--	--	0.44 J	--	0.18 J	0.62	--	--
MSA-SW42C	0.48 J	--	--	--	0.2 J	--	--	--	--
MSA-SW42D	0.41 J	--	--	0.33 J	--	--	--	--	--
MSA-SW43A	2.3	--	--	1.1	--	--	0.69	--	--
MSA-SW43B	1.9	--	--	0.99 J	--	0.17 J	0.59	--	--
MSA-SW43C	1.2	--	--	0.66 J	--	--	--	--	--
MSA-SW43D	1.4	--	--	0.85 J	--	--	0.49 J	--	--
MSA-SW44A	1.5	--	--	0.89 J	--	--	0.48 J	--	--
MSA-SW44B	0.76 J	--	--	0.52 J	--	--	--	--	--
MSA-SW44C	0.72 J	--	--	0.5 J	--	--	--	--	--
MSA-SW44D	1.1	--	--	0.7 J	--	--	--	--	--
MSA-SW45A	0.78 J	--	--	0.68 J	--	--	--	--	--
MSA-SW45B	1.3	0.13 J	--	0.85 J	0.22 J	--	--	--	--
MSA-SW45C	1.1	--	--	0.65 J	--	--	--	--	--
MSA-SW45D	0.72 J	--	--	0.46 J	--	--	--	--	--
MSA-SW46A	0.48 J	--	--	0.45 J	0.18 J	0.17 J	--	--	--
MSA-SW47A	1.7	--	--	1.1	0.21 J	0.17 J	1	--	--
MSA-SW48A	3	--	--	2.4	0.27 J	0.17 J	2.1	--	--
MSA-SW49A	2.2	0.13 J	0.26 J	1.3	0.29 J	0.37 J	0.68	--	--

J - estimated positive value due to QC noncompliance.

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

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

µg/L - micrograms per liter

-- not detected

EL - Edwards Lane

MSA - Martin State Airport

SW - surface water

APPENDICES

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

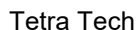
Appendix B—Data-Validation Reports

Appendix C—Chemical-Results Data Table

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

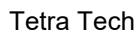
Water Quality Field Parameters-August 2018
Frog Mortar Creek
Lockheed Martin, Martin State Airport, Middle River Maryland

Sample ID		Date	Time	pH	Specific conductance (S.C.)	Temperature (Temp.)	Turbidity	Dissolved oxygen (DO)	Salinity	Oxidation-reduction potential (ORP)	Water Depth
Location	Date ID	mo/day/year	24-hour units	Standard unit (S.U.)	MilliSiemens per centimeter (mS/cm)	Degrees Celsius (°C)	Nephelometric turbidity unit (NTU)	Milligrams per liter (mg/L)	Parts per thousand (ppt)	MilliVolts (mV)	Meters (m)
EL-SW01A	-080718	8/7/2018	1025	7.91	1.9	29.29	1.60	19.81	0.1	192	0.3
EL-SW01B	-080718	8/7/2018	1030	8.23	1.9	29.08	42.90	19.05	0.1	181	0.9
EL-SW01C	-080718	8/7/2018	1035	8.41	1.8	29.03	13.20	18.74	0.1	174	1.3
EL-SW01D	-080718	8/7/2018	1040	8.18	1.8	28.89	4.20	20.66	0.1	178	1.6
MSA-SW37A	-080718	8/7/2018	1345	9.16	1.7	30.86	1.90	25.06	0.1	131	0.2
MSA-SW37B	-080718	8/7/2018	1349	9.18	1.7	30.06	3.00	21.66	0.1	134	1.2
MSA-SW37C	-080718	8/7/2018	1353	9.15	1.7	30.09	8.10	24.11	0.1	138	1.0
MSA-SW37D	-080718	8/7/2018	1357	9.11	1.7	29.93	2.30	20.90	0.1	137	1.5
MSA-SW38A	-080718	8/7/2018	1245	9.55	1.8	30.91	1.40	23.69	0.1	120	0.4
MSA-SW38B	-080718	8/7/2018	1250	9.43	1.7	29.38	8.10	23.92	0.1	126	1.2
MSA-SW38C	-080718	8/7/2018	1254	9.10	1.7	29.74	3.40	22.91	0.1	134	1.2
MSA-SW38D	-080718	8/7/2018	1259	9.00	1.7	29.35	2.50	20.91	0.1	138	1.5
MSA-SW39A	-080718	8/7/2018	1050	8.40	1.8	29.23	2.30	15.02	0.1	174	0.6
MSA-SW39B	-080718	8/7/2018	1053	8.78	1.9	29.36	64.10	17.84	0.1	164	1.3
MSA-SW39C	-080718	8/7/2018	1056	8.43	1.9	28.77	9.00	16.42	0.1	148	1.5
MSA-SW39D	-080718	8/7/2018	1059	8.30	2.0	28.98	8.20	19.90	0.1	152	1.8
MSA-SW40A	-080718	8/7/2018	1309	9.46	1.7	30.26	17.50	25.03	0.1	121	0.3
MSA-SW40B	-080718	8/7/2018	1314	9.19	1.7	29.53	16.50	25.22	0.1	131	1.0
MSA-SW40C	-080718	8/7/2018	1317	9.03	1.7	29.52	3.30	21.01	0.1	135	1.0
MSA-SW40D	-080718	8/7/2018	1320	8.77	1.7	29.34	2.70	19.57	0.1	143	1.2
MSA-SW41A	-080718	8/7/2018	1224	9.31	1.8	30.78	10.80	26.31	0.1	120	0.2
MSA-SW41B	-080718	8/7/2018	1229	9.01	1.8	29.31	3.00	22.08	0.1	133	1.4
MSA-SW41C	-080718	8/7/2018	1233	8.76	1.7	29.33	3.40	20.79	0.1	137	1.4
MSA-SW41D	-080718	8/7/2018	1237	8.53	1.7	29.24	2.70	20.02	0.1	141	1.6
MSA-SW42A	-080718	8/7/2018	1329	9.51	1.7	30.54	5.60	25.45	0.1	130	0.3
MSA-SW42B	-080718	8/7/2018	1333	9.30	1.7	29.65	9.20	21.64	0.1	139	1.0
MSA-SW42C	-080718	8/7/2018	1337	9.14	1.7	30.02	9.50	24.02	0.1	137	0.9
MSA-SW42D	-080718	8/7/2018	1340	8.93	1.7	29.53	2.70	20.53	0.1	146	1.5
MSA-SW43A	-080718	8/7/2018	1201	8.33	1.8	29.86	12.70	21.56	0.1	135	0.2
MSA-SW43B	-080718	8/7/2018	1205	8.44	1.8	29.25	3.30	22.70	0.1	139	1.3
MSA-SW43C	-080718	8/7/2018	1210	8.23	1.8	29.23	20.08	23.06	0.1	145	1.4
MSA-SW43D	-080718	8/7/2018	1215	8.14	1.8	29.19	2.70	19.32	0.1	149	1.3
MSA-SW44A	-080718	8/7/2018	1140	8.11	1.8	30.25	5.40	23.64	0.1	135	0.2
MSA-SW44B	-080718	8/7/2018	1147	1.78	1.8	29.11	2.30	18.90	0.1	125	1.5
MSA-SW44C	-080718	8/7/2018	1152	1.79	1.8	29.12	2.30	20.26	0.1	130	1.7
MSA-SW44D	-080718	8/7/2018	1155	1.78	1.8	29.24	2.30	21.08	0.1	134	1.7
MSA-SW45A	-080718	8/7/2018	1120	8.24	1.9	29.65	3.70	22.60	0.1	144	0.4
MSA-SW45B	-080718	8/7/2018	1126	8.24	1.9	29.14	10.80	25.40	0.1	151	1.8
MSA-SW45C	-080718	8/7/2018	1131	8.18	1.9	29.06	2.00	21.20	0.1	124	1.8
MSA-SW45D	-080718	8/7/2018	1135	8.15	1.9	20.03	2.10	20.66	0.1	125	1.9
MSA-SW46A	-080718	8/7/2018	1324	8.98	1.7	30.23	3.00	24.42	0.1	137	0.4
MSA-SW47A	-080718	8/7/2018	1304	9.26	1.7	30.44	2.20	19.80	0.1	122	0.4
MSA-SW48A	-080718	8/7/2018	1240	8.99	1.8	30.58	1.40	24.32	0.1	128	0.3
MSA-SW49A	-080718	8/7/2018	1220	8.39	1.8	30.46	2.00	21.27	0.1	136	0.3



Page__ of __

Circle if Applicable:		Signature(s): 
MS/MSD	Duplicate ID No.:	



Page__ of __

Project Site Name:	Frog Mortar Creek, Martin State Airport
Project No.:	112IC08424
☐ Stream	
☐ Spring	
☐ Pond	
☐ Lake	
☒ Other:	Tidal creek - freshwater
☐ QA Sample Type:	

Sample ID No.:	EL-SW01D -080718
Sample Location:	EL-SW01D
Sampled By:	J. Mullis
C.O.C. No.:	

Type of Sample:
☒ Low Concentration
☐ High Concentration

Date:	8/7/2018	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/L)	Salinity (ppt)	ORP mV
Time:	1040								
Depth:	1 ft below water								
Method:	Grab								

[illegible]

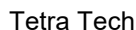
Water depth	1.55 meters

[illegible]

MS/MSD	Duplicate ID No.:

Signature(s):

J. H. Miller



Page__ of __

Project Site Name:	<u>Frog Mortar Creek, Martin State Airport</u>	Sample ID No.:	<u>MSA-SW37A -080718</u>
Project No.:	<u>112IC08424</u>	Sample Location:	<u>MSA-SW37A</u>
		Sampled By:	<u>J. Mullis</u>
		C.O.C. No.:	<u> </u>
☐ Stream ☐ Spring ☐ Pond ☐ Lake ☒ Other: <u>Tidal creek - freshwater</u>		Type of Sample: ☒ Low Concentration ☐ High Concentration	
☐ QA Sample Type:			

Date:	8/7/2018	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/L)	Salinity (ppt)	ORP mV
Time:	1345								
Depth:	1 ft below water								
Method:	Grab								
		clear	9.16	1.69	30.86	1.9	25.06	0.05	131

[illegible]

Water depth	0.1524 meters

MS/MSD	Duplicate ID No.:

J. H. Miller



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page ___ of ___

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

Sample ID No.: MSA-SW37B -080718
 Sample Location: MSA-SW37B
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1349	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	9.18	1.68	30.06	3	21.66	0.05	134
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.24968 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page ___ of ___

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

Sample ID No.: MSA-SW37C -080718
 Sample Location: MSA-SW37C
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1353	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	9.15	1.67	30.09	8.1	24.11	0.05	138
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 0.97536 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page ___ of ___

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

Sample ID No.: MSA-SW37D -080718
 Sample Location: MSA-SW37D
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1357	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	9.11	1.69	29.93	2.3	20.9	0.05	137
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.49352 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page ___ of ___

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

Sample ID No.: MSA-SW38A -080718
 Sample Location: MSA-SW38A
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1245	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	9.55	1.77	30.91	1.4	23.69	0.06	120
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 0.36576 meters

MAP:

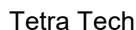


Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Page__ of __

Sample ID No.:	MSA-SW38B -080718
Sample Location:	MSA-SW38B
Sampled By:	J. Mullis
C.O.C. No.:	

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

[X] Other: Tidal creek - freshwater

☐ QA Sample Type: _____

Type of Sample:
☒ Low Concentration
☐ High Concentration

Date:	8/7/2018	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/L)	Salinity (ppt)	ORP mV
Time:	1250								
Depth:	1 ft below water								
Method:	Grab								

[illegible]

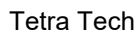
Water depth	1.2 meters

[illegible]

MS/MSD	Duplicate ID No.:

Signature(s):

J. H. Miller



Page__ of __

Sample ID No.:	MSA-SW38C -080718
Sample Location:	MSA-SW38C
Sampled By:	J. Mullis
C.O.C. No.:	

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

[X] Other: Tidal creek - freshwater

☐ QA Sample Type: _____

Type of Sample:
☒ Low Concentration
☐ High Concentration

Date:	8/7/2018	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/L)	Salinity (ppt)	ORP mV
Time:	1254								
Depth:	1 ft below water								
Method:	Grab								

[illegible]

Water depth	1.24968 meters

This aerial map shows the Potomac River region, including the Maryland Air National Guard base and various radar sites. The map is labeled with numerous radar site codes, such as SW-470, SW-471, SW-472, SW-473, SW-474, SW-475, SW-476, SW-477, SW-478, SW-479, SW-480, SW-481, SW-482, SW-483, SW-484, SW-485, SW-486, SW-487, SW-488, SW-489, SW-490, SW-491, SW-492, SW-493, SW-494, SW-495, SW-496, SW-497, SW-498, SW-499, SW-500, SW-501, SW-502, SW-503, SW-504, SW-505, SW-506, SW-507, SW-508, SW-509, SW-510, SW-511, SW-512, SW-513, SW-514, SW-515, SW-516, SW-517, SW-518, SW-519, SW-520, SW-521, SW-522, SW-523, SW-524, SW-525, SW-526, SW-527, SW-528, SW-529, SW-530, SW-531, SW-532, SW-533, SW-534, SW-535, SW-536, SW-537, SW-538, SW-539, SW-540, SW-541, SW-542, SW-543, SW-544, SW-545, SW-546, SW-547, SW-548, SW-549, SW-550, SW-551, SW-552, SW-553, SW-554, SW-555, SW-556, SW-557, SW-558, SW-559, SW-560, SW-561, SW-562, SW-563, SW-564, SW-565, SW-566, SW-567, SW-568, SW-569, SW-570, SW-571, SW-572, SW-573, SW-574, SW-575, SW-576, SW-577, SW-578, SW-579, SW-580, SW-581, SW-582, SW-583, SW-584, SW-585, SW-586, SW-587, SW-588, SW-589, SW-590, SW-591, SW-592, SW-593, SW-594, SW-595, SW-596, SW-597, SW-598, SW-599, SW-600, SW-601, SW-602, SW-603, SW-604, SW-605, SW-606, SW-607, SW-608, SW-609, SW-610, SW-611, SW-612, SW-613, SW-614, SW-615, SW-616, SW-617, SW-618, SW-619, SW-620, SW-621, SW-622, SW-623, SW-624, SW-625, SW-626, SW-627, SW-628, SW-629, SW-630, SW-631, SW-632, SW-633, SW-634, SW-635, SW-636, SW-637, SW-638, SW-639, SW-640, SW-641, SW-642, SW-643, SW-644, SW-645, SW-646, SW-647, SW-648, SW-649, SW-650, SW-651, SW-652, SW-653, SW-654, SW-655, SW-656, SW-657, SW-658, SW-659, SW-660, SW-661, SW-662, SW-663, SW-664, SW-665, SW-666, SW-667, SW-668, SW-669, SW-670, SW-671, SW-672, SW-673, SW-674, SW-675, SW-676, SW-677, SW-678, SW-679, SW-680, SW-681, SW-682, SW-683, SW-684, SW-685, SW-686, SW-687, SW-688, SW-689, SW-690, SW-691, SW-692, SW-693, SW-694, SW-695, SW-696, SW-697, SW-698, SW-699, SW-700, SW-701, SW-702, SW-703, SW-704, SW-705, SW-706, SW-707, SW-708, SW-709, SW-710, SW-711, SW-712, SW-713, SW-714, SW-715, SW-716, SW-717, SW-718, SW-719, SW-720, SW-721, SW-722, SW-723, SW-724, SW-725, SW-726, SW-727, SW-728, SW-729, SW-730, SW-731, SW-732, SW-733, SW-734, SW-735, SW-736, SW-737, SW-738, SW-739, SW-740, SW-741, SW-742, SW-743, SW-744, SW-745, SW-746, SW-747, SW-748, SW-749, SW-750, SW-751, SW-752, SW-753, SW-754, SW-755, SW-756, SW-757, SW-758, SW-759, SW-760, SW-761, SW-762, SW-763, SW-764, SW-765, SW-766, SW-767, SW-768, SW-769, SW-770, SW-771, SW-772, SW-773, SW-774, SW-775, SW-776, SW-777, SW-778, SW-779, SW-780, SW-781, SW-782, SW-783, SW-784, SW-785, SW-786, SW-787, SW-788, SW-789, SW-790, SW-791, SW-792, SW-793, SW-794, SW-795, SW-796, SW-797, SW-798, SW-799, SW-800, SW-801, SW-802, SW-803, SW-804, SW-805, SW-806, SW-807, SW-808, SW-809, SW-810, SW-811, SW-812, SW-813, SW-814, SW-815, SW-816, SW-817, SW-818, SW-819, SW-820, SW-821, SW-822, SW-823, SW-824, SW-825, SW-826, SW-827, SW-828, SW-829, SW-830, SW-831, SW-832, SW-833, SW-834, SW-835, SW-836, SW-837, SW-838, SW-839, SW-840, SW-841, SW-842, SW-843, SW-844, SW-845, SW-846, SW-847, SW-848, SW-849, SW-850, SW-851, SW-852, SW-853, SW-854, SW-855, SW-856, SW-857, SW-858, SW-859, SW-860, SW-861, SW-862, SW-863, SW-864, SW-865, SW-866, SW-867, SW-868, SW-869, SW-870, SW-871, SW-872, SW-873, SW-874, SW-875, SW-876, SW-877, SW-878, SW-879, SW-880, SW-881, SW-882, SW-883, SW-884, SW-885, SW-886, SW-887, SW-888, SW-889, SW-890, SW-891, SW-892, SW-893, SW-894, SW-895, SW-896, SW-897, SW-898, SW-899, SW-900, SW-901, SW-902, SW-903, SW-904, SW-905, SW-906, SW-907, SW-908, SW-909, SW-910, SW-911, SW-912, SW-913, SW-914, SW-915, SW-916, SW-917, SW-918, SW-919, SW-920, SW-921, SW-922, SW-923, SW-924, SW-925, SW-926, SW-927, SW-928, SW-929, SW-930, SW-931, SW-932, SW-933, SW-934, SW-935, SW-936, SW-937, SW-938, SW-939, SW-940, SW-941, SW-942, SW-943, SW-944, SW-945, SW-946, SW-947, SW-948, SW-949, SW-950, SW-951, SW-952, SW-953, SW-954, SW-955, SW-956, SW-957, SW-958, SW-959, SW-960, SW-961, SW-962, SW-963, SW-964, SW-965, SW-966, SW-967, SW-968, SW-969, SW-970, SW-971, SW-972, SW-973, SW-974, SW-975, SW-976, SW-977, SW-978, SW-979, SW-980, SW-981, SW-982, SW-983, SW-984, SW-985, SW-986, SW-987, SW-988, SW-989, SW-990, SW-991, SW-992, SW-993, SW-994, SW-995, SW-996, SW-997, SW-998, SW-999, SW-1000. The map also shows the 'TAKWAVE' and 'AIRPORT RUNWAY' areas, and the 'Frog Mortar Creek' area. The map is a detailed aerial view of the region, showing the Potomac River, the Maryland Air National Guard base, and various radar sites. The map is labeled with numerous radar site codes, such as SW-470, SW-471, SW-472, SW-473, SW-474, SW-475, SW-476, SW-477, SW-478, SW-479, SW-480, SW-481, SW-482, SW-483, SW-484, SW-485, SW-486, SW-487, SW-488, SW-489, SW-490, SW-491, SW-492, SW-493, SW-494, SW-495, SW-496, SW-497, SW-498, SW-499, SW-500, SW-501, SW-502, SW-503, SW-504, SW-505, SW-506, SW-507, SW-508, SW-509, SW-510, SW-511, SW-512, SW-513, SW-514, SW-515, SW-516, SW-517, SW-518, SW-519, SW-520, SW-521, SW-522, SW-523, SW-524, SW-525, SW-526, SW-527, SW-528, SW-529, SW-530, SW-531, SW-532, SW-533, SW-534, SW-535, SW-536, SW-537, SW-538, SW-539, SW-540, SW-541, SW-542, SW-543, SW-544, SW-545, SW-546, SW-547, SW-548, SW-549, SW-550, SW-551, SW-552, SW-553, SW-554, SW-555, SW-556, SW-557, SW-558, SW-559, SW-560, SW-561, SW-562, SW-563, SW-564, SW-565, SW-566, SW-567, SW-568, SW-569, SW-570, SW-571, SW-572, SW-573, SW-574, SW-575, SW-576, SW-577, SW-578, SW-579, SW-580, SW-581, SW-582, SW-583, SW-584, SW-585, SW-586, SW-587, SW-588, SW-5

Signature(s):

MS/MSD

Duplicate ID No.:

J. H. Miller



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page ___ of ___

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

Sample ID No.: MSA-SW38D -080718
 Sample Location: MSA-SW38D
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1259	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	9.00	1.72	29.35	2.50	20.91	0.05	138
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.5 meters

MAP:

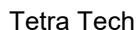


Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Page__ of __

Sample ID No.:	MSA-SW39A -080718
Sample Location:	MSA-SW39A
Sampled By:	J. Mullis
C.O.C. No.:	

QA Sample Type: _____

☐ High Concentration

Date:	8/7/2018	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/L)	Salinity (ppt)	ORP mV
Time:	1050								
Depth:	1 ft below water								
Method:	Grab								

[illegible]

Water depth	0.55 meters

This aerial map shows the Potomac River and the Maryland Air National Guard base. The map is overlaid with numerous radar site labels, including SW-470, SW-471, SW-472, SW-473, SW-474, SW-475, SW-476, SW-477, SW-478, SW-479, SW-480, SW-481, SW-482, SW-483, SW-484, SW-485, SW-486, SW-487, SW-488, SW-489, SW-490, SW-491, SW-492, SW-493, SW-494, SW-495, SW-496, SW-497, SW-498, SW-499, SW-500, SW-501, SW-502, SW-503, SW-504, SW-505, SW-506, SW-507, SW-508, SW-509, SW-510, SW-511, SW-512, SW-513, SW-514, SW-515, SW-516, SW-517, SW-518, SW-519, SW-520, SW-521, SW-522, SW-523, SW-524, SW-525, SW-526, SW-527, SW-528, SW-529, SW-530, SW-531, SW-532, SW-533, SW-534, SW-535, SW-536, SW-537, SW-538, SW-539, SW-540, SW-541, SW-542, SW-543, SW-544, SW-545, SW-546, SW-547, SW-548, SW-549, SW-550, SW-551, SW-552, SW-553, SW-554, SW-555, SW-556, SW-557, SW-558, SW-559, SW-560, SW-561, SW-562, SW-563, SW-564, SW-565, SW-566, SW-567, SW-568, SW-569, SW-570, SW-571, SW-572, SW-573, SW-574, SW-575, SW-576, SW-577, SW-578, SW-579, SW-580, SW-581, SW-582, SW-583, SW-584, SW-585, SW-586, SW-587, SW-588, SW-589, SW-590, SW-591, SW-592, SW-593, SW-594, SW-595, SW-596, SW-597, SW-598, SW-599, SW-600, SW-601, SW-602, SW-603, SW-604, SW-605, SW-606, SW-607, SW-608, SW-609, SW-610, SW-611, SW-612, SW-613, SW-614, SW-615, SW-616, SW-617, SW-618, SW-619, SW-620, SW-621, SW-622, SW-623, SW-624, SW-625, SW-626, SW-627, SW-628, SW-629, SW-630, SW-631, SW-632, SW-633, SW-634, SW-635, SW-636, SW-637, SW-638, SW-639, SW-640, SW-641, SW-642, SW-643, SW-644, SW-645, SW-646, SW-647, SW-648, SW-649, SW-650, SW-651, SW-652, SW-653, SW-654, SW-655, SW-656, SW-657, SW-658, SW-659, SW-660, SW-661, SW-662, SW-663, SW-664, SW-665, SW-666, SW-667, SW-668, SW-669, SW-670, SW-671, SW-672, SW-673, SW-674, SW-675, SW-676, SW-677, SW-678, SW-679, SW-680, SW-681, SW-682, SW-683, SW-684, SW-685, SW-686, SW-687, SW-688, SW-689, SW-690, SW-691, SW-692, SW-693, SW-694, SW-695, SW-696, SW-697, SW-698, SW-699, SW-700, SW-701, SW-702, SW-703, SW-704, SW-705, SW-706, SW-707, SW-708, SW-709, SW-710, SW-711, SW-712, SW-713, SW-714, SW-715, SW-716, SW-717, SW-718, SW-719, SW-720, SW-721, SW-722, SW-723, SW-724, SW-725, SW-726, SW-727, SW-728, SW-729, SW-730, SW-731, SW-732, SW-733, SW-734, SW-735, SW-736, SW-737, SW-738, SW-739, SW-740, SW-741, SW-742, SW-743, SW-744, SW-745, SW-746, SW-747, SW-748, SW-749, SW-750, SW-751, SW-752, SW-753, SW-754, SW-755, SW-756, SW-757, SW-758, SW-759, SW-760, SW-761, SW-762, SW-763, SW-764, SW-765, SW-766, SW-767, SW-768, SW-769, SW-770, SW-771, SW-772, SW-773, SW-774, SW-775, SW-776, SW-777, SW-778, SW-779, SW-780, SW-781, SW-782, SW-783, SW-784, SW-785, SW-786, SW-787, SW-788, SW-789, SW-790, SW-791, SW-792, SW-793, SW-794, SW-795, SW-796, SW-797, SW-798, SW-799, SW-800, SW-801, SW-802, SW-803, SW-804, SW-805, SW-806, SW-807, SW-808, SW-809, SW-810, SW-811, SW-812, SW-813, SW-814, SW-815, SW-816, SW-817, SW-818, SW-819, SW-820, SW-821, SW-822, SW-823, SW-824, SW-825, SW-826, SW-827, SW-828, SW-829, SW-830, SW-831, SW-832, SW-833, SW-834, SW-835, SW-836, SW-837, SW-838, SW-839, SW-840, SW-841, SW-842, SW-843, SW-844, SW-845, SW-846, SW-847, SW-848, SW-849, SW-850, SW-851, SW-852, SW-853, SW-854, SW-855, SW-856, SW-857, SW-858, SW-859, SW-860, SW-861, SW-862, SW-863, SW-864, SW-865, SW-866, SW-867, SW-868, SW-869, SW-870, SW-871, SW-872, SW-873, SW-874, SW-875, SW-876, SW-877, SW-878, SW-879, SW-880, SW-881, SW-882, SW-883, SW-884, SW-885, SW-886, SW-887, SW-888, SW-889, SW-890, SW-891, SW-892, SW-893, SW-894, SW-895, SW-896, SW-897, SW-898, SW-899, SW-900, SW-901, SW-902, SW-903, SW-904, SW-905, SW-906, SW-907, SW-908, SW-909, SW-910, SW-911, SW-912, SW-913, SW-914, SW-915, SW-916, SW-917, SW-918, SW-919, SW-920, SW-921, SW-922, SW-923, SW-924, SW-925, SW-926, SW-927, SW-928, SW-929, SW-930, SW-931, SW-932, SW-933, SW-934, SW-935, SW-936, SW-937, SW-938, SW-939, SW-940, SW-941, SW-942, SW-943, SW-944, SW-945, SW-946, SW-947, SW-948, SW-949, SW-950, SW-951, SW-952, SW-953, SW-954, SW-955, SW-956, SW-957, SW-958, SW-959, SW-960, SW-961, SW-962, SW-963, SW-964, SW-965, SW-966, SW-967, SW-968, SW-969, SW-970, SW-971, SW-972, SW-973, SW-974, SW-975, SW-976, SW-977, SW-978, SW-979, SW-980, SW-981, SW-982, SW-983, SW-984, SW-985, SW-986, SW-987, SW-988, SW-989, SW-990, SW-991, SW-992, SW-993, SW-994, SW-995, SW-996, SW-997, SW-998, SW-999, SW-1000. The map also shows the 'AIRPORT RUNWAY', 'TAXIWAY', and 'Frog Mortar Creek'.

MS/MSD	Duplicate ID No.:

J. H. Miller



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page ___ of ___

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

Sample ID No.: MSA-SW39B -080718
 Sample Location: MSA-SW39B
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1053	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	8.78	1.94	29.36	64.1	17.84	0.06	164
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.3 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page ___ of ___

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

Sample ID No.: MSA-SW39C -080718
 Sample Location: MSA-SW39C
 Sampled By: J. Mullis
 C.O.C. No.: _____

- ☐ Stream
☐ Spring
☐ Pond
☐ Lake

☒ Other: Tidal creek - freshwater
☐ QA Sample Type: _____

Type of Sample:
☒ Low Concentration
☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1056	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	8.43	1.94	28.77	9	16.42	0.06	148
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.5 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page ___ of ___

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

Sample ID No.: MSA-SW39D -080718
 Sample Location: MSA-SW39D
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1059	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	8.3	1.94	28.98	8.2	19.9	0.06	152
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.75 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page ___ of ___

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

Sample ID No.: MSA-SW40B -080718
 Sample Location: MSA-SW40B
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1314	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	9.19	1.70	29.53	16.50	25.22	0.1	131
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.03632 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page ___ of ___

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

Sample ID No.: MSA-SW40C -080718
 Sample Location: MSA-SW40C
 Sampled By: J. Mullis
 C.O.C. No.: _____

- ☐ Stream
☐ Spring
☐ Pond
☐ Lake

☒ Other: Tidal creek - freshwater
☐ QA Sample Type: _____

Type of Sample:
☒ Low Concentration
☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1317	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	9.03	1.71	29.52	3.30	21.01	0.1	135
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.00584 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page ___ of ___

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

Sample ID No.: MSA-SW40D -080718
 Sample Location: MSA-SW40D
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1320	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	8.77	1.69	29.34	2.70	19.57	0.1	143
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.24968 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page ___ of ___

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

Sample ID No.: MSA-SW41A -080718
 Sample Location: MSA-SW41A
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1224	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	9.31	1.81	30.78	10.80	26.31	0.1	120
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 0.1524 meters

MAP:

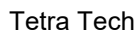


Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



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Sample ID No.:	MSA-SW41B -080718
Sample Location:	MSA-SW41B
Sampled By:	J. Mullis
C.O.C. No.:	

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

Type of Sample:
☒ Low Concentration
☐ High Concentration

Date:	8/7/2018	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/L)	Salinity (ppt)	ORP mV
Time:	1229								
Depth:	1 ft below water								
Method:	Grab								

[illegible]

Water depth	1.3716 meters

Signature(s):

Duplicate ID No.:

J. H. Miller



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

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

Sample ID No.: MSA-SW41C -080718
 Sample Location: MSA-SW41C
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1233	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	8.76	1.73	29.33	3.40	20.79	0.1	137
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.40208 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

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

Sample ID No.: MSA-SW41D -080718
 Sample Location: MSA-SW41D
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1237	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	8.53	1.73	29.24	2.70	20.02	0.1	141
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.55448 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

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

Sample ID No.: MSA-SW42A -080718
 Sample Location: MSA-SW42A
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1329	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	9.51	1.68	30.54	5.60	25.45	0.1	130
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 0.33528 meters

MAP:

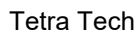


Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



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Sample ID No.:	MSA-SW42B -080718
Sample Location:	MSA-SW42B
Sampled By:	J. Mullis
C.O.C. No.:	

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

[X] Other: Tidal creek - freshwater

☐ QA Sample Type: _____

Type of Sample:
☒ Low Concentration
☐ High Concentration

Date:	8/7/2018	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/L)	Salinity (ppt)	ORP mV
Time:	1333								
Depth:	1 ft below water								
Method:	Grab								

[illegible]

Water depth	1.00584 meters

Signature(s):

MS/MSD

Duplicate ID No.:

J. H. Miller



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

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

Sample ID No.: MSA-SW43B -080718
 Sample Location: MSA-SW43B
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1205	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	8.44	1.78	29.25	3.30	22.70	0.1	139
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.3 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

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

Sample ID No.: MSA-SW43C -080718
 Sample Location: MSA-SW43C
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1210	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	8.23	1.77	29.23	20.08	23.06	0.1	145
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.3716 meters

MAP:

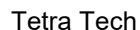


Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



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Sample ID No.:	MSA-SW44A -080718
Sample Location:	MSA-SW44A
Sampled By:	J. Mullis
C.O.C. No.:	

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

☒ Other: Tidal creek - freshwater

☐ QA Sample Type: _____

Type of Sample:
☒ Low Concentration
☐ High Concentration

Date:	8/7/2018	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/L)	Salinity (ppt)	ORP mV
Time:	1140								
Depth:	1 ft below water								
Method:	Grab								

[illegible]

Water depth	0.1524 meters

This aerial map of the Washington, D.C. area shows the Potomac River and the Maryland Air National Guard base. Numerous radar sites are labeled with codes such as SW-470, SW-471, SW-472, SW-473, SW-474, SW-475, SW-476, SW-477, SW-478, SW-479, SW-480, SW-481, SW-482, SW-483, SW-484, SW-485, SW-486, SW-487, SW-488, SW-489, SW-490, SW-491, SW-492, SW-493, SW-494, SW-495, SW-496, SW-497, SW-498, SW-499, SW-500, SW-501, SW-502, SW-503, SW-504, SW-505, SW-506, SW-507, SW-508, SW-509, SW-510, SW-511, SW-512, SW-513, SW-514, SW-515, SW-516, SW-517, SW-518, SW-519, SW-520, SW-521, SW-522, SW-523, SW-524, SW-525, SW-526, SW-527, SW-528, SW-529, SW-530, SW-531, SW-532, SW-533, SW-534, SW-535, SW-536, SW-537, SW-538, SW-539, SW-540, SW-541, SW-542, SW-543, SW-544, SW-545, SW-546, SW-547, SW-548, SW-549, SW-550, SW-551, SW-552, SW-553, SW-554, SW-555, SW-556, SW-557, SW-558, SW-559, SW-560, SW-561, SW-562, SW-563, SW-564, SW-565, SW-566, SW-567, SW-568, SW-569, SW-570, SW-571, SW-572, SW-573, SW-574, SW-575, SW-576, SW-577, SW-578, SW-579, SW-580, SW-581, SW-582, SW-583, SW-584, SW-585, SW-586, SW-587, SW-588, SW-589, SW-590, SW-591, SW-592, SW-593, SW-594, SW-595, SW-596, SW-597, SW-598, SW-599, SW-600, SW-601, SW-602, SW-603, SW-604, SW-605, SW-606, SW-607, SW-608, SW-609, SW-610, SW-611, SW-612, SW-613, SW-614, SW-615, SW-616, SW-617, SW-618, SW-619, SW-620, SW-621, SW-622, SW-623, SW-624, SW-625, SW-626, SW-627, SW-628, SW-629, SW-630, SW-631, SW-632, SW-633, SW-634, SW-635, SW-636, SW-637, SW-638, SW-639, SW-640, SW-641, SW-642, SW-643, SW-644, SW-645, SW-646, SW-647, SW-648, SW-649, SW-650, SW-651, SW-652, SW-653, SW-654, SW-655, SW-656, SW-657, SW-658, SW-659, SW-660, SW-661, SW-662, SW-663, SW-664, SW-665, SW-666, SW-667, SW-668, SW-669, SW-670, SW-671, SW-672, SW-673, SW-674, SW-675, SW-676, SW-677, SW-678, SW-679, SW-680, SW-681, SW-682, SW-683, SW-684, SW-685, SW-686, SW-687, SW-688, SW-689, SW-690, SW-691, SW-692, SW-693, SW-694, SW-695, SW-696, SW-697, SW-698, SW-699, SW-700, SW-701, SW-702, SW-703, SW-704, SW-705, SW-706, SW-707, SW-708, SW-709, SW-710, SW-711, SW-712, SW-713, SW-714, SW-715, SW-716, SW-717, SW-718, SW-719, SW-720, SW-721, SW-722, SW-723, SW-724, SW-725, SW-726, SW-727, SW-728, SW-729, SW-730, SW-731, SW-732, SW-733, SW-734, SW-735, SW-736, SW-737, SW-738, SW-739, SW-740, SW-741, SW-742, SW-743, SW-744, SW-745, SW-746, SW-747, SW-748, SW-749, SW-750, SW-751, SW-752, SW-753, SW-754, SW-755, SW-756, SW-757, SW-758, SW-759, SW-760, SW-761, SW-762, SW-763, SW-764, SW-765, SW-766, SW-767, SW-768, SW-769, SW-770, SW-771, SW-772, SW-773, SW-774, SW-775, SW-776, SW-777, SW-778, SW-779, SW-780, SW-781, SW-782, SW-783, SW-784, SW-785, SW-786, SW-787, SW-788, SW-789, SW-790, SW-791, SW-792, SW-793, SW-794, SW-795, SW-796, SW-797, SW-798, SW-799, SW-800, SW-801, SW-802, SW-803, SW-804, SW-805, SW-806, SW-807, SW-808, SW-809, SW-810, SW-811, SW-812, SW-813, SW-814, SW-815, SW-816, SW-817, SW-818, SW-819, SW-820, SW-821, SW-822, SW-823, SW-824, SW-825, SW-826, SW-827, SW-828, SW-829, SW-830, SW-831, SW-832, SW-833, SW-834, SW-835, SW-836, SW-837, SW-838, SW-839, SW-840, SW-841, SW-842, SW-843, SW-844, SW-845, SW-846, SW-847, SW-848, SW-849, SW-850, SW-851, SW-852, SW-853, SW-854, SW-855, SW-856, SW-857, SW-858, SW-859, SW-860, SW-861, SW-862, SW-863, SW-864, SW-865, SW-866, SW-867, SW-868, SW-869, SW-870, SW-871, SW-872, SW-873, SW-874, SW-875, SW-876, SW-877, SW-878, SW-879, SW-880, SW-881, SW-882, SW-883, SW-884, SW-885, SW-886, SW-887, SW-888, SW-889, SW-890, SW-891, SW-892, SW-893, SW-894, SW-895, SW-896, SW-897, SW-898, SW-899, SW-900, SW-901, SW-902, SW-903, SW-904, SW-905, SW-906, SW-907, SW-908, SW-909, SW-910, SW-911, SW-912, SW-913, SW-914, SW-915, SW-916, SW-917, SW-918, SW-919, SW-920, SW-921, SW-922, SW-923, SW-924, SW-925, SW-926, SW-927, SW-928, SW-929, SW-930, SW-931, SW-932, SW-933, SW-934, SW-935, SW-936, SW-937, SW-938, SW-939, SW-940, SW-941, SW-942, SW-943, SW-944, SW-945, SW-946, SW-947, SW-948, SW-949, SW-950, SW-951, SW-952, SW-953, SW-954, SW-955, SW-956, SW-957, SW-958, SW-959, SW-960, SW-961, SW-962, SW-963, SW-964, SW-965, SW-966, SW-967, SW-968, SW-969, SW-970, SW-971, SW-972, SW-973, SW-974, SW-975, SW-976, SW-977, SW-978, SW-979, SW-980, SW-981, SW-982, SW-983, SW-984, SW-985, SW-986, SW-987, SW-988, SW-989, SW-990, SW-991, SW-992, SW-993, SW-994, SW-995, SW-996, SW-997, SW-998, SW-999, SW-1000.

MS/MSD	Duplicate ID No.:

Signature(s):

J. H. Miller



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

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

Sample ID No.: MSA-SW44B -080718
 Sample Location: MSA-SW44B
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1147	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	1.78	1.78	29.11	2.30	18.90	0.1	125
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.524 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

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

Sample ID No.: MSA-SW44D -080718
 Sample Location: MSA-SW44D
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1155	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	1.78	1.78	29.24	2.30	21.08	0.1	134
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.73736 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

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

Sample ID No.: MSA-SW45A -080718
 Sample Location: MSA-SW45A
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1120	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	8.24	1.91	29.65	3.70	22.60	0.1	144
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 0.4 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

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

Sample ID No.: MSA-SW45C -080718
 Sample Location: MSA-SW45C
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1131	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	8.18	1.87	29.06	2.00	21.20	0.1	124
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.8288 meters

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Page ___ of ___

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

Sample ID No.: MSA-SW45D -080718
 Sample Location: MSA-SW45D
 Sampled By: J. Mullis
 C.O.C. No.: _____

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

Type of Sample:

☒ Low Concentration☐ High Concentration

SAMPLING DATA:

Date:	8/7/2018	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1135	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	clear	8.15	1.87	20.03	2.10	20.66	0.1	125
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 1.92024 meters

MAP:

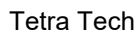


Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



Page__ of __

Sample ID No.:	MSA-SW46A -080718
Sample Location:	MSA-SW46A
Sampled By:	J. Mullis
C.O.C. No.:	

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

[X] Other: Tidal creek - freshwater

[] QA Sample Type: _____

Type of Sample:
☒ Low Concentration
☐ High Concentration

Date:	8/7/2018	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/L)	Salinity (ppt)	ORP mV
Time:	1324								
Depth:	1 ft below water								
Method:	Grab								
		clear	8.98	1.70	30.23	3.00	24.42	0.1	137

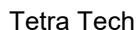
[illegible]

Water depth	0.39624 meters

[illegible]

MS/MSD	Duplicate ID No.:

J. H. Miller



Page__ of __

Sample ID No.:	MSA-SW48A -080718
Sample Location:	MSA-SW48A
Sampled By:	J. Mullis
C.O.C. No.:	

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

[X] Other: Tidal creek - freshwater

☐ QA Sample Type: _____

Type of Sample:
☒ Low Concentration
☐ High Concentration

Date:	8/7/2018	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/L)	Salinity (ppt)	ORP mV
Time:	1240								
Depth:	1 ft below water								
Method:	Grab								
		clear	8.99	1.76	30.58	1.40	24.32	0.1	128

[illegible]

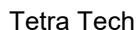
Water depth	0.3048 meters

Signature(s):

MS/MSD

Duplicate ID No.:

J. H. Miller



Page__ of __

Project Site Name:	Frog Mortar Creek, Martin State Airport
Project No.:	112IC08424
☐ Stream	
☐ Spring	
☐ Pond	
☐ Lake	
☒ Other:	Tidal creek - freshwater
☐ QA Sample Type:	

Sample ID No.:	MSA-SW49A -080718
Sample Location:	MSA-SW49A
Sampled By:	J. Mullis
C.O.C. No.:	

Type of Sample:
☒ Low Concentration
☐ High Concentration

Date:	8/7/2018	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/L)	Salinity (ppt)	ORP mV
Time:	1220								
Depth:	1 ft below water								
Method:	Grab								

[illegible]

Water depth	0.3048 meters

MS/MSD	Duplicate ID No.:

J. H. Miller

APPENDIX B—DATA-VALIDATION REPORTS



TO: M. MARTIN **DATE:** OCTOBER 15, 2018
FROM: MICHELLE L. WOEBER **COPIES:** DV FILE
SUBJECT: ORGANIC & INORGANIC DATA VALIDATION – VOC/DISSOLVED METALS/
HARDNESS
LOCKHEED MARTIN CORPORATION (LMC) – MARTIN STATE AIRPORT (MSA)
FROG MORTAR CREEK SURFACE WATER SAMPLING
SDG 240-99625-1

SAMPLES: 45/Aqueous/VOC

EL-SW01A-080718	EL-SW01B-080718	EL-SW01C-080718
EL-SW01D-080718	MSA-SW37A-080718	MSA-SW37B-080718
MSA-SW37C-080718	MSA-SW37D-080718	MSA-SW38A-080718
MSA-SW38B-080718	MSA-SW38C-080718	MSA-SW38D-080718
MSA-SW39A-080718	MSA-SW39B-080718	MSA-SW39C-080718
MSA-SW39D-080718	MSA-SW40A-080718	MSA-SW40B-080718
MSA-SW40C-080718	MSA-SW40D-080718	MSA-SW41A-080718
MSA-SW41B-080718	MSA-SW41C-080718	MSA-SW41D-080718
MSA-SW42A-080718	MSA-SW42B-080718	MSA-SW42C-080718
MSA-SW42D-080718	MSA-SW43A-080718	MSA-SW43B-080718
MSA-SW43C-080718	MSA-SW43D-080718	MSA-SW44A-080718
MSA-SW44B-080718	MSA-SW44C-080718	MSA-SW44D-080718
MSA-SW45A-080718	MSA-SW45B-080718	MSA-SW45C-080718
MSA-SW45D-080718	MSA-SW46A-080718	MSA-SW47A-080718
MSA-SW48A-080718	MSA-SW49A-080718	TB-080718

36/Aqueous/Dissolved Metals/Hardness

MSA-SW37A-080718	MSA-SW37B-080718	MSA-SW37C-080718
MSA-SW37D-080718	MSA-SW38A-080718	MSA-SW38B-080718
MSA-SW38C-080718	MSA-SW38D-080718	MSA-SW39A-080718
MSA-SW39B-080718	MSA-SW39C-080718	MSA-SW39D-080718
MSA-SW40A-080718	MSA-SW40B-080718	MSA-SW40C-080718
MSA-SW40D-080718	MSA-SW41A-080718	MSA-SW41B-080718
MSA-SW41C-080718	MSA-SW41D-080718	MSA-SW42A-080718
MSA-SW42B-080718	MSA-SW42C-080718	MSA-SW42D-080718
MSA-SW43A-080718	MSA-SW43B-080718	MSA-SW43C-080718
MSA-SW43D-080718	MSA-SW44A-080718	MSA-SW44B-080718
MSA-SW44C-080718	MSA-SW44D-080718	MSA-SW45A-080718
MSA-SW45B-080718	MSA-SW45C-080718	MSA-SW45D-080718

Overview

The sample set for LMC-MSA Frog Mortar Creek, SDG 240-99625-1 consisted of forty-four (44) aqueous environmental samples and one (1) trip blank. All forty-five (45) aqueous samples were analyzed for Volatile Organic Compounds (VOC). Thirty-six (36) aqueous samples were analyzed for dissolved metals and hardness. No field duplicate sample pair was included in this SDG.

The samples were collected by Tetra Tech, Inc. on August 7, 2018 and analyzed by TestAmerica, Inc. All analyses were conducted in accordance with SW-846 Methods 8260C, 6020, 7470A, and Standard Methods SM 2340B analytical and reporting protocols.

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

Major

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

Minor

- The VOC continuing calibration performed on instrument A3UX12 on 08/12/2018 @ 09:33 had Percent Differences (%Ds) for bromomethane, chloroethane, carbon disulfide, 1,2,4-trichlorobenzene, hexachlorobutadiene, naphthalene, and 1,2,3-trichlorobenzene which exceeded the 20% quality control limit. Samples MSA-SW37A-080718, MSA-SW37B-080718, MSA-SW37C-080718, and MSA-SW37D-080718, were affected. The non-detected results reported for these compounds in the affected samples were qualified as estimated, (UJ).
- The VOC continuing calibration performed on instrument A3UX19 on 08/14/2018 @ 18:36 had a %D for 2-butanone which exceeded the 20% quality control limit. Samples EL-SW01B-080718, EL-SW01C-080718, EL-SW01D-080718, MSA-SW46A-080718, MSA-SW47A-080718, MSA-SW48A-080718, MSA-SW49A-080718, and TB-080718 were affected. The non-detected results reported for this compound in the affected samples were qualified as estimated, (UJ).
- The following analyte was detected in a continuing calibration blank at the following maximum concentration.

Analyte	Maximum Concentration (µg/L)	Action Level Reporting Limit (RL) > or <
Chromium ⁽¹⁾	2.28	> RL
Vanadium ⁽¹⁾	0.92	< RL
Chromium ⁽²⁾	1.84	< RL

⁽¹⁾ - Maximum concentration detected in the continuing calibration blank from analytical batch #240-340095 affecting samples associated with this analytical batch.

⁽²⁾ - Maximum concentration detected in the continuing calibration blank from analytical batch #240-340099 affecting all samples.

The detected results reported for vanadium below the RL was qualified as non-detected, (U). The detected results reported for chromium reported above the RL but below 10X the blank concentration were qualified as estimated with a high bias, (J+).

- A Tentatively Identified Compound (TIC) search was performed for the compound chlorodifluoromethane for thirty-six of the samples. The laboratory did not detect this compound in the samples in this SDG. The laboratory assigned a Reporting Limit (RL) of 1 µg/L. Because the GC/MS was not calibrated for this compound, the RL is not considered precise. The non-detected

TO: M. MARTIN
SDG: 240-99625-1

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results reported for chlorodifluoromethane were qualified as estimated, (UJ).

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

Notes

Non-detected results were reported to the MDL.

Executive Summary

Laboratory Performance: VOC continuing calibration %Ds exceeded 20%. Non-detected chlorodifluoromethane results were estimated because detection was evaluated via TIC library search.

Other Factors Affecting Data Quality: 2-Chloroethyl vinyl ether results were rejected because the samples were acid preserved. Results below the RL were estimated.

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



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



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

Attachments:

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

Data Qualifier Definitions

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

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

Appendix A

Qualified Analytical Results

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $>40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $<30\%$
- Z = Uncertainty at 2 standard deviations is greater than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed
- Z3 = Tentatively Identified Compound aldol condensate
- Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
- Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	EL-SW01A-080718			EL-SW01B-080718			EL-SW01C-080718			EL-SW01D-080718		
	LAB_ID	240-99625-37			240-99625-38			240-99625-39			240-99625-40		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	UJ	C	1.2	UJ	C	1.2	UJ	C
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW37A-080718			MSA-SW37B-080718			MSA-SW37C-080718			MSA-SW37D-080718		
	LAB_ID	240-99625-1			240-99625-2			240-99625-3			240-99625-4		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	UJ	C	0.14	UJ	C	0.14	UJ	C	0.14	UJ	C
1,2,4-TRICHLOROBENZENE		0.26	UJ	C	0.26	UJ	C	0.26	UJ	C	0.26	UJ	C
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	UJ	C	0.42	UJ	C	0.42	UJ	C	0.42	UJ	C

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW38A-080718			MSA-SW38B-080718			MSA-SW38C-080718			MSA-SW38D-080718		
	LAB_ID	240-99625-5			240-99625-6			240-99625-7			240-99625-8		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.35	J	P	0.36	J	P	0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.17	J	P	0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.65	J	P	0.4	J	P	0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		7.4			5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW39A-080718			MSA-SW39B-080718			MSA-SW39C-080718			MSA-SW39D-080718		
	LAB_ID	240-99625-9			240-99625-10			240-99625-11			240-99625-12		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		6			5.8		
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW40A-080718			MSA-SW40B-080718			MSA-SW40C-080718			MSA-SW40D-080718		
	LAB_ID	240-99625-13			240-99625-14			240-99625-15			240-99625-16		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW41A-080718			MSA-SW41B-080718			MSA-SW41C-080718			MSA-SW41D-080718		
	LAB_ID	240-99625-17			240-99625-18			240-99625-19			240-99625-20		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		7.9			5.4	U		5.9			5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW42A-080718			MSA-SW42B-080718			MSA-SW42C-080718			MSA-SW42D-080718		
	LAB_ID	240-99625-21			240-99625-22			240-99625-23			240-99625-24		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14 U			0.14 U			0.14 U			0.14 U		
1,1,1-TRICHLOROETHANE		0.24 U			0.24 U			0.24 U			0.24 U		
1,1,2,2-TETRACHLOROETHANE		0.13 U			0.13 U			0.13 U			0.13 U		
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41 U			0.41 U			0.41 U			0.41 U		
1,1-DICHLOROETHANE		0.17 U			0.17 U			0.17 U			0.17 U		
1,1-DICHLOROETHENE		0.19 U			0.19 U			0.19 U			0.19 U		
1,1-DICHLOROPROPENE		0.14 U			0.14 U			0.14 U			0.14 U		
1,2,3-TRICHLOROBENZENE		0.54 U			0.54 U			0.54 U			0.54 U		
1,2,3-TRICHLOROPROPANE		0.24 U			0.24 U			0.24 U			0.24 U		
1,2,3-TRIMETHYLBENZENE		0.14 U			0.14 U			0.14 U			0.14 U		
1,2,4-TRICHLOROBENZENE		0.26 U			0.26 U			0.26 U			0.26 U		
1,2,4-TRIMETHYLBENZENE		0.07 U			0.07 U			0.07 U			0.07 U		
1,2-DIBROMO-3-CHLOROPROPANE		0.91 U			0.91 U			0.91 U			0.91 U		
1,2-DIBROMOETHANE		0.12 U			0.12 U			0.12 U			0.12 U		
1,2-DICHLOROBENZENE		0.15 U			0.15 U			0.15 U			0.15 U		
1,2-DICHLOROETHANE		0.21 U			0.21 U			0.21 U			0.21 U		
1,2-DICHLOROPROPANE		0.15 U			0.15 U			0.15 U			0.15 U		
1,3-DICHLOROBENZENE		0.15 U			0.15 U			0.15 U			0.15 U		
1,3-DICHLOROPROPANE		0.21 U			0.21 U			0.21 U			0.21 U		
1,4-DICHLOROBENZENE		0.16 U			0.16 U			0.16 U			0.16 U		
2,2-DICHLOROPROPANE		0.31 U			0.31 U			0.31 U			0.31 U		
2-BUTANONE		1.2 U			1.2 U			1.2 U			1.2 U		
2-CHLOROETHYL VINYL ETHER		0.26 UR	M		0.26 UR	M		0.26 UR	M		0.26 UR	M	
2-CHLOROTOLUENE		0.15 U			0.15 U			0.15 U			0.15 U		
2-HEXANONE		0.54 U			0.54 U			0.54 U			0.54 U		
4-CHLOROTOLUENE		0.09 U			0.09 U			0.09 U			0.09 U		
4-ISOPROPYLTOLUENE		0.13 U			0.13 U			0.13 U			0.13 U		
4-METHYL-2-PENTANONE		0.42 U			0.42 U			0.42 U			0.42 U		
ACETONE		5.4 U			5.4 U			5.4 U			5.4 U		
BENZENE		0.13 U			0.13 U			0.13 U			0.13 U		
BROMOBENZENE		0.12 U			0.12 U			0.12 U			0.12 U		
BROMOCHLOROMETHANE		0.14 U			0.14 U			0.14 U			0.14 U		
BROMODICHLOROMETHANE		0.17 U			0.17 U			0.17 U			0.17 U		
BROMOFORM		0.76 U			0.76 U			0.76 U			0.76 U		
BROMOMETHANE		0.42 U			0.42 U			0.42 U			0.42 U		

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW43A-080718			MSA-SW43B-080718			MSA-SW43C-080718			MSA-SW43D-080718		
	LAB_ID	240-99625-25			240-99625-26			240-99625-27			240-99625-28		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14 U			0.14 U			0.14 U			0.14 U		
1,1,1-TRICHLOROETHANE		0.24 U			0.24 U			0.24 U			0.24 U		
1,1,2,2-TETRACHLOROETHANE		0.13 U			0.13 U			0.13 U			0.13 U		
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41 U			0.41 U			0.41 U			0.41 U		
1,1-DICHLOROETHANE		0.17 U			0.17 U			0.17 U			0.17 U		
1,1-DICHLOROETHENE		0.19 U			0.19 U			0.19 U			0.19 U		
1,1-DICHLOROPROPENE		0.14 U			0.14 U			0.14 U			0.14 U		
1,2,3-TRICHLOROBENZENE		0.54 U			0.54 U			0.54 U			0.54 U		
1,2,3-TRICHLOROPROPANE		0.24 U			0.24 U			0.24 U			0.24 U		
1,2,3-TRIMETHYLBENZENE		0.14 U			0.14 U			0.14 U			0.14 U		
1,2,4-TRICHLOROBENZENE		0.26 U			0.26 U			0.26 U			0.26 U		
1,2,4-TRIMETHYLBENZENE		0.07 U			0.07 U			0.07 U			0.07 U		
1,2-DIBROMO-3-CHLOROPROPANE		0.91 U			0.91 U			0.91 U			0.91 U		
1,2-DIBROMOETHANE		0.12 U			0.12 U			0.12 U			0.12 U		
1,2-DICHLOROBENZENE		0.15 U			0.15 U			0.15 U			0.15 U		
1,2-DICHLOROETHANE		0.21 U			0.21 U			0.21 U			0.21 U		
1,2-DICHLOROPROPANE		0.15 U			0.15 U			0.15 U			0.15 U		
1,3-DICHLOROBENZENE		0.15 U			0.15 U			0.15 U			0.15 U		
1,3-DICHLOROPROPANE		0.21 U			0.21 U			0.21 U			0.21 U		
1,4-DICHLOROBENZENE		0.16 U			0.16 U			0.16 U			0.16 U		
2,2-DICHLOROPROPANE		0.31 U			0.31 U			0.31 U			0.31 U		
2-BUTANONE		1.2 U			1.2 U			1.2 U			1.2 U		
2-CHLOROETHYL VINYL ETHER		0.26 UR	M		0.26 UR	M		0.26 UR	M		0.26 UR	M	
2-CHLOROTOLUENE		0.15 U			0.15 U			0.15 U			0.15 U		
2-HEXANONE		0.54 U			0.54 U			0.54 U			0.54 U		
4-CHLOROTOLUENE		0.09 U			0.09 U			0.09 U			0.09 U		
4-ISOPROPYLTOLUENE		0.13 U			0.13 U			0.13 U			0.13 U		
4-METHYL-2-PENTANONE		0.42 U			0.42 U			0.42 U			0.42 U		
ACETONE		5.4 U			5.4 U			5.4 U			5.4 U		
BENZENE		0.13 U			0.13 U			0.13 U			0.13 U		
BROMOBENZENE		0.12 U			0.12 U			0.12 U			0.12 U		
BROMOCHLOROMETHANE		0.14 U			0.14 U			0.14 U			0.14 U		
BROMODICHLOROMETHANE		0.17 U			0.17 U			0.17 U			0.17 U		
BROMOFORM		0.76 U			0.76 U			0.76 U			0.76 U		
BROMOMETHANE		0.42 U			0.42 U			0.42 U			0.42 U		

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW44A-080718			MSA-SW44B-080718			MSA-SW44C-080718			MSA-SW44D-080718		
	LAB_ID	240-99625-29			240-99625-30			240-99625-31			240-99625-32		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW45A-080718			MSA-SW45B-080718			MSA-SW45C-080718			MSA-SW45D-080718		
	LAB_ID	240-99625-33			240-99625-34			240-99625-35			240-99625-36		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		6			5.5		
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW46A-080718			MSA-SW47A-080718			MSA-SW48A-080718			MSA-SW49A-080718		
	LAB_ID	240-99625-42			240-99625-43			240-99625-44			240-99625-45		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	UJ	C	1.2	UJ	C	1.2	UJ	C	1.2	UJ	C
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		7.5		
BENZENE		0.13	U		0.13	U		0.13	U		0.17	J	P
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	TB-080718		
	LAB_ID	240-99625-41		
	SAMP_DATE	8/7/2018		
	QC_TYPE	TB		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U	
1,1-DICHLOROETHANE		0.17	U	
1,1-DICHLOROETHENE		0.19	U	
1,1-DICHLOROPROPENE		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U	
1,2-DIBROMOETHANE		0.12	U	
1,2-DICHLOROBENZENE		0.15	U	
1,2-DICHLOROETHANE		0.21	U	
1,2-DICHLOROPROPANE		0.15	U	
1,3-DICHLOROBENZENE		0.15	U	
1,3-DICHLOROPROPANE		0.21	U	
1,4-DICHLOROBENZENE		0.16	U	
2,2-DICHLOROPROPANE		0.31	U	
2-BUTANONE		1.2	UJ	C
2-CHLOROETHYL VINYL ETHER		0.26	UR	M
2-CHLOROTOLUENE		0.15	U	
2-HEXANONE		0.54	U	
4-CHLOROTOLUENE		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U	
4-METHYL-2-PENTANONE		0.42	U	
ACETONE		5.4	U	
BENZENE		0.13	U	
BROMOBENZENE		0.12	U	
BROMOCHLOROMETHANE		0.14	U	
BROMODICHLOROMETHANE		0.17	U	
BROMOFORM		0.76	U	
BROMOMETHANE		0.42	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	EL-SW01A-080718			EL-SW01B-080718			EL-SW01C-080718			EL-SW01D-080718		
	LAB_ID	240-99625-37			240-99625-38			240-99625-39			240-99625-40		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28 U			0.28 U			0.28 U			0.28 U		
CARBON TETRACHLORIDE		0.26 U			0.26 U			0.26 U			0.26 U		
CHLOROBENZENE		0.14 U			0.14 U			0.14 U			0.14 U		
CHLORODIBROMOMETHANE		0.39 U			0.39 U			0.39 U			0.39 U		
CHLORODIFLUOROMETHANE		1 UJ	Q		1 UJ	Q		1 UJ	Q		1 UJ	Q	
CHLOROETHANE		0.83 U			0.83 U			0.83 U			0.83 U		
CHLOROFORM		0.13 U			0.13 U			0.13 U			0.13 U		
CHLOROMETHANE		0.2 U			0.2 U			0.2 U			0.2 U		
CIS-1,2-DICHLOROETHENE		0.16 U			0.16 U			0.16 U			0.16 U		
CIS-1,3-DICHLOROPROPENE		0.61 U			0.61 U			0.61 U			0.61 U		
DIBROMOMETHANE		0.09 U			0.09 U			0.09 U			0.09 U		
DICHLORODIFLUOROMETHANE		0.35 U			0.35 U			0.35 U			0.35 U		
DIISOPROPYL ETHER		0.17 U			0.17 U			0.17 U			0.17 U		
ETHYL TERT-BUTYL ETHER		0.15 U			0.15 U			0.15 U			0.15 U		
ETHYLBENZENE		0.11 U			0.11 U			0.11 U			0.11 U		
HEXACHLOROBUTADIENE		0.83 U			0.83 U			0.83 U			0.83 U		
ISOPROPYLBENZENE		0.09 U			0.09 U			0.09 U			0.09 U		
M+P-XYLENES		0.08 U			0.08 U			0.08 U			0.08 U		
METHYL TERT-BUTYL ETHER		0.07 U			0.07 U			0.07 U			0.07 U		
METHYLENE CHLORIDE		2.6 U			2.6 U			2.6 U			2.6 U		
NAPHTHALENE		0.32 U			0.32 U			0.32 U			0.32 U		
N-BUTYLBENZENE		0.14 U			0.14 U			0.14 U			0.14 U		
N-PROPYLBENZENE		0.15 U			0.15 U			0.15 U			0.15 U		
O-XYLENE		0.09 U			0.09 U			0.09 U			0.09 U		
SEC-BUTYLBENZENE		0.13 U			0.13 U			0.13 U			0.13 U		
STYRENE		0.1 U			0.1 U			0.1 U			0.1 U		
TERT-AMYL METHYL ETHER		0.11 U			0.11 U			0.11 U			0.11 U		
TERT-BUTYLBENZENE		0.14 U			0.14 U			0.14 U			0.14 U		
TERTIARY-BUTYL ALCOHOL		1.7 U			1.7 U			1.7 U			1.7 U		
TETRACHLOROETHENE		0.15 U			0.15 U			0.15 U			0.15 U		
TOLUENE		0.2 J	P		0.14 U			0.14 U			0.14 U		
TOTAL XYLENES		0.15 U			0.15 U			0.15 U			0.15 U		
TRANS-1,2-DICHLOROETHENE		0.19 U			0.19 U			0.19 U			0.19 U		
TRANS-1,3-DICHLOROPROPENE		0.67 U			0.67 U			0.67 U			0.67 U		
TRICHLOROETHENE		0.1 U			0.1 U			0.1 U			0.1 U		

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW37A-080718			MSA-SW37B-080718			MSA-SW37C-080718			MSA-SW37D-080718		
	LAB_ID	240-99625-1			240-99625-2			240-99625-3			240-99625-4		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	UJ	C	0.28	UJ	C	0.28	UJ	C	0.28	UJ	C
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	UJ	C	0.83	UJ	C	0.83	UJ	C	0.83	UJ	C
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U		0.17	J	P	0.19	J	P	0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	UJ	C	0.83	UJ	C	0.83	UJ	C	0.83	UJ	C
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	UJ	C	0.32	UJ	C	0.32	UJ	C	0.32	UJ	C
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U		1.7	U		1.7	U		1.7	U	
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW38A-080718			MSA-SW38B-080718			MSA-SW38C-080718			MSA-SW38D-080718		
	LAB_ID	240-99625-5			240-99625-6			240-99625-7			240-99625-8		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.23	J	P	0.16	U		0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.11	J	P	0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U		1.7	U		1.7	U		1.7	U	
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	J	P	0.14	U		0.14	U		0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW39A-080718			MSA-SW39B-080718			MSA-SW39C-080718			MSA-SW39D-080718		
	LAB_ID	240-99625-9			240-99625-10			240-99625-11			240-99625-12		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28 U			0.28 U			0.28 U			0.28 U		
CARBON TETRACHLORIDE		0.26 U			0.26 U			0.26 U			0.26 U		
CHLOROBENZENE		0.14 U			0.14 U			0.14 U			0.14 U		
CHLORODIBROMOMETHANE		0.39 U			0.39 U			0.39 U			0.39 U		
CHLORODIFLUOROMETHANE		1 UJ	Q		1 UJ	Q		1 UJ	Q		1 UJ	Q	
CHLOROETHANE		0.83 U			0.83 U			0.83 U			0.83 U		
CHLOROFORM		0.13 U			0.13 U			0.13 U			0.13 U		
CHLOROMETHANE		0.2 U			0.2 U			0.2 U			0.2 U		
CIS-1,2-DICHLOROETHENE		0.16 U			0.16 U			0.16 U			0.16 U		
CIS-1,3-DICHLOROPROPENE		0.61 U			0.61 U			0.61 U			0.61 U		
DIBROMOMETHANE		0.09 U			0.09 U			0.09 U			0.09 U		
DICHLORODIFLUOROMETHANE		0.35 U			0.35 U			0.35 U			0.35 U		
DIISOPROPYL ETHER		0.17 U			0.17 U			0.17 U			0.17 U		
ETHYL TERT-BUTYL ETHER		0.15 U			0.15 U			0.15 U			0.15 U		
ETHYLBENZENE		0.11 U			0.11 U			0.11 U			0.11 U		
HEXACHLOROBUTADIENE		0.83 U			0.83 U			0.83 U			0.83 U		
ISOPROPYLBENZENE		0.09 U			0.09 U			0.09 U			0.09 U		
M+P-XYLENES		0.08 U			0.08 U			0.08 U			0.08 U		
METHYL TERT-BUTYL ETHER		0.07 U			0.07 U			0.07 U			0.07 U		
METHYLENE CHLORIDE		2.6 U			2.6 U			2.6 U			2.6 U		
NAPHTHALENE		0.32 U			0.32 U			0.32 U			0.32 U		
N-BUTYLBENZENE		0.14 U			0.14 U			0.14 U			0.14 U		
N-PROPYLBENZENE		0.15 U			0.15 U			0.15 U			0.15 U		
O-XYLENE		0.09 U			0.09 U			0.09 U			0.09 U		
SEC-BUTYLBENZENE		0.13 U			0.13 U			0.13 U			0.13 U		
STYRENE		0.1 U			0.1 U			0.1 U			0.1 U		
TERT-AMYL METHYL ETHER		0.11 U			0.11 U			0.11 U			0.11 U		
TERT-BUTYLBENZENE		0.14 U			0.14 U			0.14 U			0.14 U		
TERTIARY-BUTYL ALCOHOL		1.7 U			1.7 U			1.7 U			1.7 U		
TETRACHLOROETHENE		0.15 U			0.15 U			0.15 U			0.15 U		
TOLUENE		0.14 U			0.14 U			0.14 U			0.14 U		
TOTAL XYLENES		0.15 U			0.15 U			0.15 U			0.15 U		
TRANS-1,2-DICHLOROETHENE		0.19 U			0.19 U			0.19 U			0.19 U		
TRANS-1,3-DICHLOROPROPENE		0.67 U			0.67 U			0.67 U			0.67 U		
TRICHLOROETHENE		0.1 U			0.1 U			0.1 U			0.1 U		

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW40A-080718			MSA-SW40B-080718			MSA-SW40C-080718			MSA-SW40D-080718		
	LAB_ID	240-99625-13			240-99625-14			240-99625-15			240-99625-16		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.19	J	P	0.16	U		0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U		1.7	U		1.7	U		1.7	U	
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW41A-080718			MSA-SW41B-080718			MSA-SW41C-080718			MSA-SW41D-080718		
	LAB_ID	240-99625-17			240-99625-18			240-99625-19			240-99625-20		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.42	J	P	0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.26	J	P	0.16	J	P	0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U		1.7	U		1.7	U		1.7	U	
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	J	P	0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW42A-080718			MSA-SW42B-080718			MSA-SW42C-080718			MSA-SW42D-080718		
	LAB_ID	240-99625-21			240-99625-22			240-99625-23			240-99625-24		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.21	J	P	0.2	U	
CIS-1,2-DICHLOROETHENE		0.27	J	P	0.18	J	P	0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U		1.7	U		1.7	U		1.7	U	
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW43A-080718			MSA-SW43B-080718			MSA-SW43C-080718			MSA-SW43D-080718		
	LAB_ID	240-99625-25			240-99625-26			240-99625-27			240-99625-28		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.29	J	P	0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U		0.17	J	P	0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U		1.7	U		1.7	U		1.7	U	
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW44A-080718			MSA-SW44B-080718			MSA-SW44C-080718			MSA-SW44D-080718		
	LAB_ID	240-99625-29			240-99625-30			240-99625-31			240-99625-32		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U		0.16	U		0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U		1.7	U		1.7	U		1.7	U	
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW45A-080718			MSA-SW45B-080718			MSA-SW45C-080718			MSA-SW45D-080718		
	LAB_ID	240-99625-33			240-99625-34			240-99625-35			240-99625-36		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U		0.16	U		0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U		1.7	U		1.7	U		1.7	U	
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.14	U	
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW46A-080718			MSA-SW47A-080718			MSA-SW48A-080718			MSA-SW49A-080718		
	LAB_ID	240-99625-42			240-99625-43			240-99625-44			240-99625-45		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.45	J	P	0.26	J	P	0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.17	J	P	0.17	J	P	0.17	J	P	0.37	J	P
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.19	J	P
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U		1.7	U		1.7	U		1.7	U	
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.32	J	P
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.19	J	P
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.26	J	P

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	TB-080718		
	LAB_ID	240-99625-41		
	SAMP_DATE	8/7/2018		
	QC_TYPE	TB		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U	
CARBON TETRACHLORIDE		0.26	U	
CHLOROBENZENE		0.14	U	
CHLORODIBROMOMETHANE		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q
CHLOROETHANE		0.83	U	
CHLOROFORM		0.13	U	
CHLOROMETHANE		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U	
DIBROMOMETHANE		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U	
DIISOPROPYL ETHER		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U	
ETHYLBENZENE		0.11	U	
HEXACHLOROBUTADIENE		0.83	U	
ISOPROPYLBENZENE		0.09	U	
M+P-XYLENES		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U	
METHYLENE CHLORIDE		2.6	U	
NAPHTHALENE		0.32	U	
N-BUTYLBENZENE		0.14	U	
N-PROPYLBENZENE		0.15	U	
O-XYLENE		0.09	U	
SEC-BUTYLBENZENE		0.13	U	
STYRENE		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U	
TERT-BUTYLBENZENE		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U	
TETRACHLOROETHENE		0.15	U	
TOLUENE		0.14	U	
TOTAL XYLENES		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U	
TRICHLOROETHENE		0.1	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	EL-SW01A-080718			EL-SW01B-080718			EL-SW01C-080718			EL-SW01D-080718		
	LAB_ID	240-99625-37			240-99625-38			240-99625-39			240-99625-40		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW37A-080718			MSA-SW37B-080718			MSA-SW37C-080718			MSA-SW37D-080718		
	LAB_ID	240-99625-1			240-99625-2			240-99625-3			240-99625-4		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW38A-080718			MSA-SW38B-080718			MSA-SW38C-080718			MSA-SW38D-080718		
	LAB_ID	240-99625-5			240-99625-6			240-99625-7			240-99625-8		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.6			0.2	U		0.2	U		0.2	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW39A-080718			MSA-SW39B-080718			MSA-SW39C-080718			MSA-SW39D-080718		
	LAB_ID	240-99625-9			240-99625-10			240-99625-11			240-99625-12		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW40A-080718			MSA-SW40B-080718			MSA-SW40C-080718			MSA-SW40D-080718		
	LAB_ID	240-99625-13			240-99625-14			240-99625-15			240-99625-16		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW41A-080718			MSA-SW41B-080718			MSA-SW41C-080718			MSA-SW41D-080718		
	LAB_ID	240-99625-17			240-99625-18			240-99625-19			240-99625-20		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW42A-080718			MSA-SW42B-080718			MSA-SW42C-080718			MSA-SW42D-080718		
	LAB_ID	240-99625-21			240-99625-22			240-99625-23			240-99625-24		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.3	J	P	0.2	U		0.2	U		0.2	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW43A-080718			MSA-SW43B-080718			MSA-SW43C-080718			MSA-SW43D-080718		
	LAB_ID	240-99625-25			240-99625-26			240-99625-27			240-99625-28		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW44A-080718			MSA-SW44B-080718			MSA-SW44C-080718			MSA-SW44D-080718		
	LAB_ID	240-99625-29			240-99625-30			240-99625-31			240-99625-32		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW45A-080718			MSA-SW45B-080718			MSA-SW45C-080718			MSA-SW45D-080718		
	LAB_ID	240-99625-33			240-99625-34			240-99625-35			240-99625-36		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	MSA-SW46A-080718			MSA-SW47A-080718			MSA-SW48A-080718			MSA-SW49A-080718		
	LAB_ID	240-99625-42			240-99625-43			240-99625-44			240-99625-45		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.2	U		0.2	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: OV MEDIA: WATER	NSAMPLE	TB-080718		
	LAB_ID	240-99625-41		
	SAMP_DATE	8/7/2018		
	QC_TYPE	TB		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U	
VINYL ACETATE		0.19	U	
VINYL CHLORIDE		0.2	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW37A-080718			MSA-SW37B-080718			MSA-SW37C-080718			MSA-SW37D-080718		
	LAB_ID	240-99625-1			240-99625-2			240-99625-3			240-99625-4		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.71	J	P	1.3	J	P	0.57	U		0.57	U	
ARSENIC		1.9	J	P	2.1	J	P	1.5	J	P	1.5	J	P
BARIUM		12			11			11			11		
BERYLLIUM		0.31	U		0.36	J	P	0.31	U		0.31	U	
CADMIUM		0.21	J	P	0.21	U		0.21	U		0.21	U	
CHROMIUM		2.5			2.7			2.5			2.5		
COBALT		0.28	J	P	0.22	J	P	0.19	U		0.19	U	
COPPER		6.5			14			6.4			6.6		
LEAD		0.65	J	P	0.61	J	P	0.45	U		0.45	U	
MERCURY		0.13	U		0.13	U		0.13	U		0.13	U	
MOLYBDENUM		1.9	J	P	1.9	J	P	1.8	J	P	1.8	J	P
NICKEL		1.7	J	P	1.7	J	P	1.5	J	P	1.6	J	P
SELENIUM		1.1	J	P	1.4	J	P	1.1	J	P	0.89	U	
SILVER		0.053	U		0.053	U		0.053	U		0.053	U	
THALLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
TUNGSTEN		1.8	U		1.8	U		1.8	U		1.8	U	
VANADIUM		2.1	J	P	1.9	J	P	1.5	J	P	1.6	J	P
ZINC		15	U		15	U		15	U		15	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW38A-080718			MSA-SW38B-080718			MSA-SW38C-080718			MSA-SW38D-080718		
	LAB_ID	240-99625-5			240-99625-6			240-99625-7			240-99625-8		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.57	U		0.57	U		0.57	U		0.57	U	
ARSENIC		2	J	P	1.6	J	P	2.1	J	P	1.6	J	P
BARIUM		11			11			12			12		
BERYLLIUM		0.31	U		0.31	U		0.31	U		0.31	U	
CADMIUM		0.21	U		0.21	U		0.21	U		0.21	U	
CHROMIUM		2.4			2.3			2.5			2.5		
COBALT		0.19	U		0.19	U		0.19	U		0.19	U	
COPPER		6			5.9			6.8			6.7		
LEAD		0.45	U		0.45	U		0.45	U		0.45	U	
MERCURY		0.13	U		0.13	U		0.13	U		0.13	U	
MOLYBDENUM		1.8	J	P	1.7	J	P	1.8	J	P	1.8	J	P
NICKEL		1.5	U		1.5	U		1.5	J	P	1.7	J	P
SELENIUM		0.89	U		0.89	U		1.1	J	P	0.98	J	P
SILVER		0.053	U		0.053	U		0.053	U		0.053	U	
THALLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
TUNGSTEN		1.8	U		1.8	U		1.8	U		1.8	U	
VANADIUM		1.7	J	P	1.6	J	P	1.4	J	P	1.8	J	P
ZINC		15	U		15	U		15	U		15	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW39A-080718			MSA-SW39B-080718			MSA-SW39C-080718			MSA-SW39D-080718		
	LAB_ID	240-99625-9			240-99625-10			240-99625-11			240-99625-12		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.57	U		0.57	U		0.57	U		0.57	U	
ARSENIC		1.8	J	P	1.6	J	P	1.2	J	P	1.4	J	P
BARIUM		12			11			11			11		
BERYLLIUM		0.31	U		0.31	U		0.31	U		0.31	U	
CADMIUM		0.21	U		0.21	U		0.21	U		0.21	U	
CHROMIUM		2.5			2.4			2.4			2.4		
COBALT		0.19	U		0.19	U		0.19	U		0.19	U	
COPPER		3.5			9.8			4.3			4		
LEAD		0.45	U		0.45	U		0.45	U		0.45	U	
MERCURY		0.13	U		0.13	U		0.13	U		0.13	U	
MOLYBDENUM		1.6	J	P	1.9	J	P	1.8	J	P	1.8	J	P
NICKEL		1.5	U		1.5	J	P	1.5	U		1.5	U	
SELENIUM		1.1	J	P	1	J	P	1.1	J	P	1.1	J	P
SILVER		0.053	U		0.053	U		0.053	U		0.053	U	
THALLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
TUNGSTEN		1.8	U		1.8	U		1.8	U		1.8	U	
VANADIUM		1.5	J	P	1.5	J	P	1.5	J	P	1.5	J	P
ZINC		15	U		15	U		15	U		15	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW40A-080718			MSA-SW40B-080718			MSA-SW40C-080718			MSA-SW40D-080718		
	LAB_ID	240-99625-13			240-99625-14			240-99625-15			240-99625-16		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.57	U		0.57	U		0.57	U		0.57	U	
ARSENIC		2	J	P	1.5	J	P	1.7	J	P	1.9	J	P
BARIUM		12			12			11			11		
BERYLLIUM		0.31	U		0.31	U		0.31	U		0.31	U	
CADMIUM		0.21	U		0.21	U		0.21	U		0.21	U	
CHROMIUM		2.4			2.4			2.2			2.5		
COBALT		0.19	U		0.19	U		0.19	U		0.19	U	
COPPER		6.4			6.5			6.1			7.7		
LEAD		0.45	U		0.45	U		0.45	U		0.45	U	
MERCURY		0.13	U		0.13	U		0.13	U		0.13	U	
MOLYBDENUM		1.8	J	P	1.8	J	P	1.7	J	P	1.9	J	P
NICKEL		1.5	U		1.5	U		1.5	U		1.8	J	P
SELENIUM		0.89	U		0.89	U		0.89	U		0.89	U	
SILVER		0.053	U		0.053	U		0.053	U		0.053	U	
THALLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
TUNGSTEN		1.8	U		1.8	U		1.8	U		1.8	U	
VANADIUM		1.7	J	P	1.8	J	P	1.6	J	P	1.7	J	P
ZINC		15	U		15	U		15	U		15	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW41A-080718			MSA-SW41B-080718			MSA-SW41C-080718			MSA-SW41D-080718		
	LAB_ID	240-99625-17			240-99625-18			240-99625-19			240-99625-20		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.57	U		0.57	U		0.57	U		0.57	U	
ARSENIC		1.7	J	P	1.6	J	P	2	J	P	2	J	P
BARIUM		11			11			12			12		
BERYLLIUM		0.31	U		0.31	U		0.31	U		0.31	U	
CADMIUM		0.21	U		0.21	U		0.21	U		0.21	U	
CHROMIUM		2.3			2.3			2.2			2.3		
COBALT		0.19	U		0.19	U		0.19	U		0.19	U	
COPPER		6			9.4			6.4			6.6		
LEAD		0.45	U		0.45	U		0.45	U		0.45	U	
MERCURY		0.13	U		0.13	U		0.13	U		0.13	U	
MOLYBDENUM		1.8	J	P	1.7	J	P	1.9	J	P	1.9	J	P
NICKEL		1.5	U		1.9	J	P	1.5	U		1.5	U	
SELENIUM		0.89	U		0.89	U		0.89	U		0.89	U	
SILVER		0.053	U		0.053	U		0.053	U		0.053	U	
THALLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
TUNGSTEN		1.8	U		1.8	U		1.8	U		1.8	U	
VANADIUM		1.8	J	P	1.8	J	P	1.6	J	P	1.6	J	P
ZINC		15	U		15	U		15	U		15	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW42A-080718			MSA-SW42B-080718			MSA-SW42C-080718			MSA-SW42D-080718		
	LAB_ID	240-99625-21			240-99625-22			240-99625-23			240-99625-24		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.57	U		0.57	U		0.57	U		0.57	U	
ARSENIC		2.3	J	P	2.2	J	P	2.3	J	P	2.2	J	P
BARIUM		11			11			12			12		
BERYLLIUM		0.31	U		0.31	U		0.31	U		0.31	U	
CADMIUM		0.21	U		0.21	U		0.21	U		0.21	U	
CHROMIUM		2.6	J+	A	2.5	J+	A	2.6	J+	A	2.7	J+	A
COBALT		0.19	J	P	0.19	U		0.19	U		0.19	U	
COPPER		6			6.5			6.4			6.4		
LEAD		0.45	U		0.45	U		0.45	U		0.45	U	
MERCURY		0.13	U		0.13	U		0.13	U		0.13	U	
MOLYBDENUM		1.9	J	P	1.8	J	P	1.8	J	P	1.9	J	P
NICKEL		1.5	U		1.6	J	P	1.5	U		1.5	U	
SELENIUM		0.89	U		0.89	U		0.89	U		0.89	U	
SILVER		0.053	U		0.053	U		0.053	U		0.053	U	
THALLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
TUNGSTEN		1.8	U		1.8	U		1.8	U		1.8	U	
VANADIUM		2.2	U	A	1.6	U	A	1.7	U	A	2	U	A
ZINC		15	U		15	U		15	U		15	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW43A-080718			MSA-SW43B-080718			MSA-SW43C-080718			MSA-SW43D-080718		
	LAB_ID	240-99625-25			240-99625-26			240-99625-27			240-99625-28		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.57	U		0.57	U		0.57	U		0.57	U	
ARSENIC		2.3	J	P	2.2	J	P	2.3	J	P	2.4	J	P
BARIUM		12			12			12			12		
BERYLLIUM		0.31	U		0.31	U		0.31	U		0.31	U	
CADMIUM		0.21	U		0.21	U		0.21	U		0.21	U	
CHROMIUM		2.6	J+	A	2.7	J+	A	2.8	J+	A	2.8	J+	A
COBALT		0.19	U		0.19	U		0.19	U		0.19	U	
COPPER		6.4			6.6			6.9			7		
LEAD		0.45	U		0.45	U		0.45	U		0.45	U	
MERCURY		0.13	U		0.13	U		0.13	U		0.13	U	
MOLYBDENUM		1.8	J	P	1.8	J	P	1.9	J	P	2	J	P
NICKEL		1.5	U		1.5	J	P	1.5	J	P	1.6	J	P
SELENIUM		0.89	U		0.89	U		0.89	U		0.89	U	
SILVER		0.053	U		0.053	U		0.053	U		0.053	U	
THALLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
TUNGSTEN		1.8	U		1.8	U		1.8	U		1.8	U	
VANADIUM		1.6	U	A	2.1	U	A	2.2	U	A	2	U	A
ZINC		15	U		15	U		15	U		15	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW44A-080718			MSA-SW44B-080718			MSA-SW44C-080718			MSA-SW44D-080718		
	LAB_ID	240-99625-29			240-99625-30			240-99625-31			240-99625-32		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.57	U		0.57	U		0.57	U		0.57	U	
ARSENIC		2.3	J	P	2.3	J	P	2.2	J	P	2.4	J	P
BARIUM		12			12			11			12		
BERYLLIUM		0.31	U		0.31	U		0.31	U		0.31	U	
CADMIUM		0.21	U		0.21	U		0.21	U		0.21	U	
CHROMIUM		2.9	J+	A	2.8	J+	A	2.7	J+	A	2.9	J+	A
COBALT		0.32	J	P	0.19	U		0.19	U		0.19	U	
COPPER		6.9			6.6			6.7			7		
LEAD		0.45	U		0.45	U		0.45	U		0.45	U	
MERCURY		0.13	U		0.13	U		0.13	U		0.13	U	
MOLYBDENUM		1.9	J	P	1.8	J	P	1.8	J	P	1.9	J	P
NICKEL		1.9	J	P	1.5	U		1.5	U		1.5	J	P
SELENIUM		0.89	U		0.89	U		0.89	U		0.89	U	
SILVER		0.053	U		0.053	U		0.053	U		0.053	U	
THALLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
TUNGSTEN		1.8	U		1.8	U		1.8	U		1.8	U	
VANADIUM		1.9	U	A	1.8	U	A	1.5	U	A	1.8	U	A
ZINC		15	U		15	U		15	U		15	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MF MEDIA: WATER	NSAMPLE	MSA-SW45A-080718			MSA-SW45B-080718			MSA-SW45C-080718			MSA-SW45D-080718		
	LAB_ID	240-99625-33			240-99625-34			240-99625-35			240-99625-36		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.57	U		0.57	U		0.57	U		0.57	U	
ARSENIC		2.2	J	P	2.2	J	P	2.2	J	P	2.3	J	P
BARIUM		13			12			12			12		
BERYLLIUM		0.31	U		0.31	U		0.31	U		0.31	U	
CADMIUM		0.21	U		0.21	U		0.21	U		0.21	U	
CHROMIUM		2.9	J+	A	2.8	J+	A	2.7	J+	A	2.8	J+	A
COBALT		0.32	J	P	0.19	U		0.19	U		0.19	U	
COPPER		3.7			15			5.7			6		
LEAD		0.45	U		0.62	J	P	0.45	U		0.45	U	
MERCURY		0.13	U		0.13	U		0.13	U		0.13	U	
MOLYBDENUM		1.8	J	P	1.9	J	P	1.9	J	P	2	J	P
NICKEL		1.7	J	P	1.6	J	P	1.5	U		1.5	J	P
SELENIUM		0.89	U		0.89	U		0.89	U		0.89	U	
SILVER		0.053	U		0.053	U		0.053	U		0.053	U	
THALLIUM		0.2	U		0.2	U		0.2	U		0.2	U	
TUNGSTEN		1.8	U		1.8	U		1.8	U		1.8	U	
VANADIUM		1.7	U	A	1.5	U	A	1.8	U	A	1.8	U	A
ZINC		15	U		15	U		15	U		15	U	

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW37A-080718			MSA-SW37B-080718			MSA-SW37C-080718			MSA-SW37D-080718		
	LAB_ID	240-99625-1			240-99625-2			240-99625-3			240-99625-4		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CALCIUM HARDNESS AS CaCO3		44			43			44			44		
HARDNESS AS CaCO3		180			180			180			180		
MAGNESIUM HARDNESS AS CaCO3		130			140			130			140		

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW38A-080718			MSA-SW38B-080718			MSA-SW38C-080718			MSA-SW38D-080718		
	LAB_ID	240-99625-5			240-99625-6			240-99625-7			240-99625-8		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CALCIUM HARDNESS AS CaCO3		45			42			47			47		
HARDNESS AS CaCO3		190			180			200			200		
MAGNESIUM HARDNESS AS CaCO3		140			140			150			150		

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW39A-080718			MSA-SW39B-080718			MSA-SW39C-080718			MSA-SW39D-080718		
	LAB_ID	240-99625-9			240-99625-10			240-99625-11			240-99625-12		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CALCIUM HARDNESS AS CaCO3		50			44			42			41		
HARDNESS AS CaCO3		200			200			200			200		
MAGNESIUM HARDNESS AS CaCO3		150			160			160			160		

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW40A-080718			MSA-SW40B-080718			MSA-SW40C-080718			MSA-SW40D-080718		
	LAB_ID	240-99625-13			240-99625-14			240-99625-15			240-99625-16		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CALCIUM HARDNESS AS CaCO3		45			44			42			43		
HARDNESS AS CaCO3		190			190			180			180		
MAGNESIUM HARDNESS AS CaCO3		150			150			140			140		

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW41A-080718			MSA-SW41B-080718			MSA-SW41C-080718			MSA-SW41D-080718		
	LAB_ID	240-99625-17			240-99625-18			240-99625-19			240-99625-20		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CALCIUM HARDNESS AS CaCO3		44			42			45			45		
HARDNESS AS CaCO3		190			180			190			190		
MAGNESIUM HARDNESS AS CaCO3		150			140			150			150		

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW42A-080718			MSA-SW42B-080718			MSA-SW42C-080718			MSA-SW42D-080718		
	LAB_ID	240-99625-21			240-99625-22			240-99625-23			240-99625-24		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CALCIUM HARDNESS AS CaCO3		46			46			46			45		
HARDNESS AS CaCO3		190			190			190			180		
MAGNESIUM HARDNESS AS CaCO3		140			140			140			140		

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW43A-080718			MSA-SW43B-080718			MSA-SW43C-080718			MSA-SW43D-080718		
	LAB_ID	240-99625-25			240-99625-26			240-99625-27			240-99625-28		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CALCIUM HARDNESS AS CaCO3		45			46			47			49		
HARDNESS AS CaCO3		190			200			200			210		
MAGNESIUM HARDNESS AS CaCO3		140			150			150			160		

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW44A-080718			MSA-SW44B-080718			MSA-SW44C-080718			MSA-SW44D-080718		
	LAB_ID	240-99625-29			240-99625-30			240-99625-31			240-99625-32		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CALCIUM HARDNESS AS CaCO3		46			45			45			47		
HARDNESS AS CaCO3		200			190			190			200		
MAGNESIUM HARDNESS AS CaCO3		150			150			150			150		

PROJ_NO: 08424 SDG: 240-99625-1 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW45A-080718			MSA-SW45B-080718			MSA-SW45C-080718			MSA-SW45D-080718		
	LAB_ID	240-99625-33			240-99625-34			240-99625-35			240-99625-36		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/L			MG/L			MG/L			MG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CALCIUM HARDNESS AS CaCO3		49			46			46			47		
HARDNESS AS CaCO3		210			210			200			210		
MAGNESIUM HARDNESS AS CaCO3		170			160			160			160		

Appendix B

Results as Reported by the Laboratory

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37A-080718</u>	Lab Sample ID: <u>240-99625-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265866.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/12/2018 17:38</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>340454</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37A-080718</u>	Lab Sample ID: <u>240-99625-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265866.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/12/2018 17:38</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>340454</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW37A-080718 Lab Sample ID: 240-99625-1
 Matrix: Water Lab File ID: U1265866.D
 Analysis Method: 8260C Date Collected: 08/07/2018 13:45
 Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 17:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340454 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		61-138
460-00-4	4-Bromofluorobenzene (Surr)	108		69-120
2037-26-5	Toluene-d8 (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	112		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW37A-080718 Lab Sample ID: 240-99625-1
Matrix: Water Lab File ID: U1265866.D
Analysis Method: 8260C Date Collected: 08/07/2018 13:45
Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 17:38
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340454 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW37A-080718 Lab Sample ID: 240-99625-1
Matrix: Water Lab File ID: U1265866.D
Analysis Method: 8260C Date Collected: 08/07/2018 13:45
Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 17:38
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340454 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37B-080718</u>	Lab Sample ID: <u>240-99625-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265867.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:49</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/12/2018 18:00</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>340454</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37B-080718</u>	Lab Sample ID: <u>240-99625-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265867.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:49</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/12/2018 18:00</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>340454</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.17	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW37B-080718 Lab Sample ID: 240-99625-2
 Matrix: Water Lab File ID: U1265867.D
 Analysis Method: 8260C Date Collected: 08/07/2018 13:49
 Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 18:00
 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.: 340454 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121		61-138
460-00-4	4-Bromofluorobenzene (Surr)	107		69-120
2037-26-5	Toluene-d8 (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	114		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37B-080718</u>	Lab Sample ID: <u>240-99625-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265867.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:49</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/12/2018 18:00</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>340454</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW37B-080718 Lab Sample ID: 240-99625-2
Matrix: Water Lab File ID: U1265867.D
Analysis Method: 8260C Date Collected: 08/07/2018 13:49
Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 18:00
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.: 340454 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW37C-080718 Lab Sample ID: 240-99625-3

Matrix: Water Lab File ID: U1265868.D

Analysis Method: 8260C Date Collected: 08/07/2018 13:53

Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 18:22

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.: 340454 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37C-080718</u>	Lab Sample ID: <u>240-99625-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265868.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:53</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/12/2018 18:22</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>340454</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.19	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW37C-080718 Lab Sample ID: 240-99625-3
 Matrix: Water Lab File ID: U1265868.D
 Analysis Method: 8260C Date Collected: 08/07/2018 13:53
 Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 18:22
 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.: 340454 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		61-138
460-00-4	4-Bromofluorobenzene (Surr)	107		69-120
2037-26-5	Toluene-d8 (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37C-080718</u>	Lab Sample ID: <u>240-99625-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265868.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:53</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/12/2018 18:22</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>340454</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW37C-080718 Lab Sample ID: 240-99625-3
Matrix: Water Lab File ID: U1265868.D
Analysis Method: 8260C Date Collected: 08/07/2018 13:53
Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 18:22
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.: 340454 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37D-080718</u>	Lab Sample ID: <u>240-99625-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265869a.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:57</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/12/2018 18:44</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>340454</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW37D-080718</u>	Lab Sample ID: <u>240-99625-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265869a.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:57</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/12/2018 18:44</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>340454</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW37D-080718 Lab Sample ID: 240-99625-4
 Matrix: Water Lab File ID: U1265869a.D
 Analysis Method: 8260C Date Collected: 08/07/2018 13:57
 Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 18:44
 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.: 340454 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		61-138
460-00-4	4-Bromofluorobenzene (Surr)	104		69-120
2037-26-5	Toluene-d8 (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW37D-080718 Lab Sample ID: 240-99625-4
Matrix: Water Lab File ID: U1265869a.D
Analysis Method: 8260C Date Collected: 08/07/2018 13:57
Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 18:44
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.: 340454 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW37D-080718 Lab Sample ID: 240-99625-4
Matrix: Water Lab File ID: U1265869a.D
Analysis Method: 8260C Date Collected: 08/07/2018 13:57
Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 18:44
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.: 340454 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW38A-080718</u>	Lab Sample ID: <u>240-99625-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265890.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 16:03</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>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichloroethane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	0.35	J	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.17	J	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	0.65	J	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	7.4		5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW38A-080718</u>	Lab Sample ID: <u>240-99625-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265890.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 16:03</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>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.23	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.11	J	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.14	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.60		0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW38A-080718 Lab Sample ID: 240-99625-5
 Matrix: Water Lab File ID: U1265890.D
 Analysis Method: 8260C Date Collected: 08/07/2018 12:45
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 16:03
 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.: 340552 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		61-138
460-00-4	4-Bromofluorobenzene (Surr)	108		69-120
2037-26-5	Toluene-d8 (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW38A-080718 Lab Sample ID: 240-99625-5
Matrix: Water Lab File ID: U1265890.D
Analysis Method: 8260C Date Collected: 08/07/2018 12:45
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 16:03
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.: 340552 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW38A-080718 Lab Sample ID: 240-99625-5
Matrix: Water Lab File ID: U1265890.D
Analysis Method: 8260C Date Collected: 08/07/2018 12:45
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 16:03
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.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW38B-080718 Lab Sample ID: 240-99625-6

Matrix: Water Lab File ID: U1265891.D

Analysis Method: 8260C Date Collected: 08/07/2018 12:50

Sample wt/vol: 5(mL) Date Analyzed: 08/13/2018 16:25

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.: 340552 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	0.36	J	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	0.40	J	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW38B-080718</u>	Lab Sample ID: <u>240-99625-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265891.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 16:25</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>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW38B-080718 Lab Sample ID: 240-99625-6
 Matrix: Water Lab File ID: U1265891.D
 Analysis Method: 8260C Date Collected: 08/07/2018 12:50
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 16:25
 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.: 340552 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		61-138
460-00-4	4-Bromofluorobenzene (Surr)	107		69-120
2037-26-5	Toluene-d8 (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	113		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW38B-080718 Lab Sample ID: 240-99625-6
Matrix: Water Lab File ID: U1265891.D
Analysis Method: 8260C Date Collected: 08/07/2018 12:50
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 16:25
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.: 340552 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW38B-080718 Lab Sample ID: 240-99625-6
Matrix: Water Lab File ID: U1265891.D
Analysis Method: 8260C Date Collected: 08/07/2018 12:50
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 16:25
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.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW38C-080718</u>	Lab Sample ID: <u>240-99625-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265892.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:54</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 16:47</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>340552</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW38C-080718</u>	Lab Sample ID: <u>240-99625-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265892.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:54</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/13/2018 16:47</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>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW38C-080718 Lab Sample ID: 240-99625-7
 Matrix: Water Lab File ID: U1265892.D
 Analysis Method: 8260C Date Collected: 08/07/2018 12:54
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 16:47
 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.: 340552 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		61-138
460-00-4	4-Bromofluorobenzene (Surr)	107		69-120
2037-26-5	Toluene-d8 (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW38C-080718 Lab Sample ID: 240-99625-7
Matrix: Water Lab File ID: U1265892.D
Analysis Method: 8260C Date Collected: 08/07/2018 12:54
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 16:47
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.: 340552 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW38C-080718 Lab Sample ID: 240-99625-7
Matrix: Water Lab File ID: U1265892.D
Analysis Method: 8260C Date Collected: 08/07/2018 12:54
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 16:47
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.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW38D-080718 Lab Sample ID: 240-99625-8

Matrix: Water Lab File ID: U1265893.D

Analysis Method: 8260C Date Collected: 08/07/2018 12:59

Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 17:10

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW38D-080718</u>	Lab Sample ID: <u>240-99625-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265893.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:59</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 17:10</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW38D-080718 Lab Sample ID: 240-99625-8
 Matrix: Water Lab File ID: U1265893.D
 Analysis Method: 8260C Date Collected: 08/07/2018 12:59
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 17:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340552 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		61-138
460-00-4	4-Bromofluorobenzene (Surr)	109		69-120
2037-26-5	Toluene-d8 (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	113		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW38D-080718 Lab Sample ID: 240-99625-8
Matrix: Water Lab File ID: U1265893.D
Analysis Method: 8260C Date Collected: 08/07/2018 12:59
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 17:10
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340552 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW38D-080718 Lab Sample ID: 240-99625-8
Matrix: Water Lab File ID: U1265893.D
Analysis Method: 8260C Date Collected: 08/07/2018 12:59
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 17:10
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39A-080718</u>	Lab Sample ID: <u>240-99625-9</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265894.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 17:32</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>340552</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39A-080718</u>	Lab Sample ID: <u>240-99625-9</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265894.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 17:32</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>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW39A-080718 Lab Sample ID: 240-99625-9
 Matrix: Water Lab File ID: U1265894.D
 Analysis Method: 8260C Date Collected: 08/07/2018 10:50
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 17:32
 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.: 340552 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	122		61-138
460-00-4	4-Bromofluorobenzene (Surr)	106		69-120
2037-26-5	Toluene-d8 (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	113		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW39A-080718 Lab Sample ID: 240-99625-9
Matrix: Water Lab File ID: U1265894.D
Analysis Method: 8260C Date Collected: 08/07/2018 10:50
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 17:32
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.: 340552 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW39A-080718 Lab Sample ID: 240-99625-9
Matrix: Water Lab File ID: U1265894.D
Analysis Method: 8260C Date Collected: 08/07/2018 10:50
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 17:32
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.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39B-080718</u>	Lab Sample ID: <u>240-99625-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265895.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:53</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 17:54</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340552</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39B-080718</u>	Lab Sample ID: <u>240-99625-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265895.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:53</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 17:54</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW39B-080718 Lab Sample ID: 240-99625-10
 Matrix: Water Lab File ID: U1265895.D
 Analysis Method: 8260C Date Collected: 08/07/2018 10:53
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 17:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340552 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		61-138
460-00-4	4-Bromofluorobenzene (Surr)	106		69-120
2037-26-5	Toluene-d8 (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39B-080718</u>	Lab Sample ID: <u>240-99625-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265895.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:53</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 17:54</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340552</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW39B-080718 Lab Sample ID: 240-99625-10
Matrix: Water Lab File ID: U1265895.D
Analysis Method: 8260C Date Collected: 08/07/2018 10:53
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 17:54
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW39C-080718 Lab Sample ID: 240-99625-11

Matrix: Water Lab File ID: U1265896.D

Analysis Method: 8260C Date Collected: 08/07/2018 10:56

Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:16

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.: 340552 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	6.0		5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39C-080718</u>	Lab Sample ID: <u>240-99625-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265896.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:56</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 18:16</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>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW39C-080718 Lab Sample ID: 240-99625-11
 Matrix: Water Lab File ID: U1265896.D
 Analysis Method: 8260C Date Collected: 08/07/2018 10:56
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:16
 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.: 340552 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		61-138
460-00-4	4-Bromofluorobenzene (Surr)	108		69-120
2037-26-5	Toluene-d8 (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	109		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39C-080718</u>	Lab Sample ID: <u>240-99625-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265896.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:56</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 18:16</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>340552</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW39C-080718 Lab Sample ID: 240-99625-11
Matrix: Water Lab File ID: U1265896.D
Analysis Method: 8260C Date Collected: 08/07/2018 10:56
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:16
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.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW39D-080718 Lab Sample ID: 240-99625-12

Matrix: Water Lab File ID: U1265897.D

Analysis Method: 8260C Date Collected: 08/07/2018 10:59

Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:39

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.: 340552 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.8		5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW39D-080718</u>	Lab Sample ID: <u>240-99625-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265897.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:59</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 18:39</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>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW39D-080718 Lab Sample ID: 240-99625-12
 Matrix: Water Lab File ID: U1265897.D
 Analysis Method: 8260C Date Collected: 08/07/2018 10:59
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:39
 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.: 340552 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		61-138
460-00-4	4-Bromofluorobenzene (Surr)	106		69-120
2037-26-5	Toluene-d8 (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	109		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW39D-080718 Lab Sample ID: 240-99625-12
Matrix: Water Lab File ID: U1265897.D
Analysis Method: 8260C Date Collected: 08/07/2018 10:59
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:39
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.: 340552 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW39D-080718 Lab Sample ID: 240-99625-12
Matrix: Water Lab File ID: U1265897.D
Analysis Method: 8260C Date Collected: 08/07/2018 10:59
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:39
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.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW40A-080718 Lab Sample ID: 240-99625-13

Matrix: Water Lab File ID: U1265898.D

Analysis Method: 8260C Date Collected: 08/07/2018 13:09

Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:00

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.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40A-080718</u>	Lab Sample ID: <u>240-99625-13</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265898.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:09</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 19:00</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>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.19	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW40A-080718 Lab Sample ID: 240-99625-13
 Matrix: Water Lab File ID: U1265898.D
 Analysis Method: 8260C Date Collected: 08/07/2018 13:09
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:00
 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.: 340552 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		61-138
460-00-4	4-Bromofluorobenzene (Surr)	105		69-120
2037-26-5	Toluene-d8 (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40A-080718</u>	Lab Sample ID: <u>240-99625-13</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265898.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:09</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 19:00</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>340552</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW40A-080718 Lab Sample ID: 240-99625-13
Matrix: Water Lab File ID: U1265898.D
Analysis Method: 8260C Date Collected: 08/07/2018 13:09
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:00
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.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40B-080718</u>	Lab Sample ID: <u>240-99625-14</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265899.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:14</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 19:22</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>340552</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40B-080718</u>	Lab Sample ID: <u>240-99625-14</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265899.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:14</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 19:22</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>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW40B-080718 Lab Sample ID: 240-99625-14
 Matrix: Water Lab File ID: U1265899.D
 Analysis Method: 8260C Date Collected: 08/07/2018 13:14
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:22
 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.: 340552 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		61-138
460-00-4	4-Bromofluorobenzene (Surr)	108		69-120
2037-26-5	Toluene-d8 (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	110		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW40B-080718 Lab Sample ID: 240-99625-14
Matrix: Water Lab File ID: U1265899.D
Analysis Method: 8260C Date Collected: 08/07/2018 13:14
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:22
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.: 340552 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW40B-080718 Lab Sample ID: 240-99625-14
Matrix: Water Lab File ID: U1265899.D
Analysis Method: 8260C Date Collected: 08/07/2018 13:14
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:22
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.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40C-080718</u>	Lab Sample ID: <u>240-99625-15</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265900.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:17</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 19:45</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>340552</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40C-080718</u>	Lab Sample ID: <u>240-99625-15</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265900.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:17</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 19:45</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>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW40C-080718 Lab Sample ID: 240-99625-15
 Matrix: Water Lab File ID: U1265900.D
 Analysis Method: 8260C Date Collected: 08/07/2018 13:17
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340552 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121		61-138
460-00-4	4-Bromofluorobenzene (Surr)	107		69-120
2037-26-5	Toluene-d8 (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	112		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW40C-080718 Lab Sample ID: 240-99625-15
Matrix: Water Lab File ID: U1265900.D
Analysis Method: 8260C Date Collected: 08/07/2018 13:17
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:45
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340552 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW40C-080718 Lab Sample ID: 240-99625-15
Matrix: Water Lab File ID: U1265900.D
Analysis Method: 8260C Date Collected: 08/07/2018 13:17
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:45
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW40D-080718 Lab Sample ID: 240-99625-16

Matrix: Water Lab File ID: U1265901.D

Analysis Method: 8260C Date Collected: 08/07/2018 13:20

Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 20:07

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.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW40D-080718</u>	Lab Sample ID: <u>240-99625-16</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265901.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 20:07</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>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW40D-080718 Lab Sample ID: 240-99625-16
 Matrix: Water Lab File ID: U1265901.D
 Analysis Method: 8260C Date Collected: 08/07/2018 13:20
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 20:07
 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.: 340552 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		61-138
460-00-4	4-Bromofluorobenzene (Surr)	105		69-120
2037-26-5	Toluene-d8 (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	110		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW40D-080718 Lab Sample ID: 240-99625-16
Matrix: Water Lab File ID: U1265901.D
Analysis Method: 8260C Date Collected: 08/07/2018 13:20
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 20:07
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.: 340552 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW40D-080718 Lab Sample ID: 240-99625-16
Matrix: Water Lab File ID: U1265901.D
Analysis Method: 8260C Date Collected: 08/07/2018 13:20
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 20:07
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.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41A-080718</u>	Lab Sample ID: <u>240-99625-17</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265902.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:24</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 20:29</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	7.9		5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41A-080718</u>	Lab Sample ID: <u>240-99625-17</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1265902.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:24</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/13/2018 20:29</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340552</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.26	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW41A-080718 Lab Sample ID: 240-99625-17
 Matrix: Water Lab File ID: U1265902.D
 Analysis Method: 8260C Date Collected: 08/07/2018 12:24
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 20:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340552 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		61-138
460-00-4	4-Bromofluorobenzene (Surr)	107		69-120
2037-26-5	Toluene-d8 (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	113		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW41A-080718 Lab Sample ID: 240-99625-17
Matrix: Water Lab File ID: U1265902.D
Analysis Method: 8260C Date Collected: 08/07/2018 12:24
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 20:29
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340552 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW41A-080718 Lab Sample ID: 240-99625-17
Matrix: Water Lab File ID: U1265902.D
Analysis Method: 8260C Date Collected: 08/07/2018 12:24
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 20:29
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW41B-080718 Lab Sample ID: 240-99625-18

Matrix: Water Lab File ID: U1901053.d

Analysis Method: 8260C Date Collected: 08/07/2018 12:29

Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:43

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41B-080718</u>	Lab Sample ID: <u>240-99625-18</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901053.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:29</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 18:43</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	0.42	J	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.16	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW41B-080718 Lab Sample ID: 240-99625-18
 Matrix: Water Lab File ID: U1901053.d
 Analysis Method: 8260C Date Collected: 08/07/2018 12:29
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		61-138
460-00-4	4-Bromofluorobenzene (Surr)	99		69-120
2037-26-5	Toluene-d8 (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW41B-080718 Lab Sample ID: 240-99625-18
Matrix: Water Lab File ID: U1901053.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:29
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:43
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW41B-080718 Lab Sample ID: 240-99625-18
Matrix: Water Lab File ID: U1901053.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:29
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:43
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW41C-080718 Lab Sample ID: 240-99625-19

Matrix: Water Lab File ID: U1901054.d

Analysis Method: 8260C Date Collected: 08/07/2018 12:33

Sample wt/vol: 5(mL) Date Analyzed: 08/13/2018 19:05

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 340666 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.9		5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41C-080718</u>	Lab Sample ID: <u>240-99625-19</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901054.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:33</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 19:05</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.14	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW41C-080718 Lab Sample ID: 240-99625-19
 Matrix: Water Lab File ID: U1901054.d
 Analysis Method: 8260C Date Collected: 08/07/2018 12:33
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		61-138
460-00-4	4-Bromofluorobenzene (Surr)	98		69-120
2037-26-5	Toluene-d8 (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW41C-080718 Lab Sample ID: 240-99625-19
Matrix: Water Lab File ID: U1901054.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:33
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:05
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW41C-080718 Lab Sample ID: 240-99625-19
Matrix: Water Lab File ID: U1901054.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:33
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:05
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW41D-080718 Lab Sample ID: 240-99625-20

Matrix: Water Lab File ID: U1901055.d

Analysis Method: 8260C Date Collected: 08/07/2018 12:37

Sample wt/vol: 5(mL) Date Analyzed: 08/13/2018 19:27

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41D-080718</u>	Lab Sample ID: <u>240-99625-20</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901055.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:37</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 19:27</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW41D-080718 Lab Sample ID: 240-99625-20
 Matrix: Water Lab File ID: U1901055.d
 Analysis Method: 8260C Date Collected: 08/07/2018 12:37
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		61-138
460-00-4	4-Bromofluorobenzene (Surr)	100		69-120
2037-26-5	Toluene-d8 (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW41D-080718</u>	Lab Sample ID: <u>240-99625-20</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901055.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:37</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 19:27</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW41D-080718 Lab Sample ID: 240-99625-20
Matrix: Water Lab File ID: U1901055.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:37
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:27
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42A-080718</u>	Lab Sample ID: <u>240-99625-21</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901056.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:29</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 19:50</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>340666</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42A-080718</u>	Lab Sample ID: <u>240-99625-21</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901056.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:29</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 19:50</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>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.27	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.30	J	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW42A-080718 Lab Sample ID: 240-99625-21
 Matrix: Water Lab File ID: U1901056.d
 Analysis Method: 8260C Date Collected: 08/07/2018 13:29
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		61-138
460-00-4	4-Bromofluorobenzene (Surr)	98		69-120
2037-26-5	Toluene-d8 (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42A-080718</u>	Lab Sample ID: <u>240-99625-21</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901056.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:29</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 19:50</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>340666</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW42A-080718 Lab Sample ID: 240-99625-21
Matrix: Water Lab File ID: U1901056.d
Analysis Method: 8260C Date Collected: 08/07/2018 13:29
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 19:50
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW42B-080718 Lab Sample ID: 240-99625-22

Matrix: Water Lab File ID: U1901057.d

Analysis Method: 8260C Date Collected: 08/07/2018 13:33

Sample wt/vol: 5(mL) Date Analyzed: 08/13/2018 20:12

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42B-080718</u>	Lab Sample ID: <u>240-99625-22</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901057.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:33</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/13/2018 20:12</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.18	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW42B-080718 Lab Sample ID: 240-99625-22
 Matrix: Water Lab File ID: U1901057.d
 Analysis Method: 8260C Date Collected: 08/07/2018 13:33
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 20:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		61-138
460-00-4	4-Bromofluorobenzene (Surr)	98		69-120
2037-26-5	Toluene-d8 (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW42B-080718 Lab Sample ID: 240-99625-22
Matrix: Water Lab File ID: U1901057.d
Analysis Method: 8260C Date Collected: 08/07/2018 13:33
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 20:12
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW42B-080718 Lab Sample ID: 240-99625-22
Matrix: Water Lab File ID: U1901057.d
Analysis Method: 8260C Date Collected: 08/07/2018 13:33
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 20:12
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW42C-080718 Lab Sample ID: 240-99625-23

Matrix: Water Lab File ID: U1901058.d

Analysis Method: 8260C Date Collected: 08/07/2018 13:37

Sample wt/vol: 5(mL) Date Analyzed: 08/13/2018 20:34

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42C-080718</u>	Lab Sample ID: <u>240-99625-23</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901058.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:37</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/13/2018 20:34</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	0.21	J	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW42C-080718 Lab Sample ID: 240-99625-23
 Matrix: Water Lab File ID: U1901058.d
 Analysis Method: 8260C Date Collected: 08/07/2018 13:37
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 20:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		61-138
460-00-4	4-Bromofluorobenzene (Surr)	101		69-120
2037-26-5	Toluene-d8 (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42C-080718</u>	Lab Sample ID: <u>240-99625-23</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901058.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:37</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 20:34</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW42C-080718 Lab Sample ID: 240-99625-23
Matrix: Water Lab File ID: U1901058.d
Analysis Method: 8260C Date Collected: 08/07/2018 13:37
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 20:34
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42D-080718</u>	Lab Sample ID: <u>240-99625-24</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901059.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 20:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42D-080718</u>	Lab Sample ID: <u>240-99625-24</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901059.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:40</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/13/2018 20:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW42D-080718 Lab Sample ID: 240-99625-24
 Matrix: Water Lab File ID: U1901059.d
 Analysis Method: 8260C Date Collected: 08/07/2018 13:40
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 20:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		61-138
460-00-4	4-Bromofluorobenzene (Surr)	94		69-120
2037-26-5	Toluene-d8 (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW42D-080718</u>	Lab Sample ID: <u>240-99625-24</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901059.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 20:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW42D-080718 Lab Sample ID: 240-99625-24
Matrix: Water Lab File ID: U1901059.d
Analysis Method: 8260C Date Collected: 08/07/2018 13:40
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 20:57
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW43A-080718 Lab Sample ID: 240-99625-25

Matrix: Water Lab File ID: U1901060.d

Analysis Method: 8260C Date Collected: 08/07/2018 12:01

Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 21:19

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43A-080718</u>	Lab Sample ID: <u>240-99625-25</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901060.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:01</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 21:19</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	0.29	J	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW43A-080718 Lab Sample ID: 240-99625-25
 Matrix: Water Lab File ID: U1901060.d
 Analysis Method: 8260C Date Collected: 08/07/2018 12:01
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 21:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		61-138
460-00-4	4-Bromofluorobenzene (Surr)	100		69-120
2037-26-5	Toluene-d8 (Surr)	118		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW43A-080718 Lab Sample ID: 240-99625-25
Matrix: Water Lab File ID: U1901060.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:01
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 21:19
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW43A-080718 Lab Sample ID: 240-99625-25
Matrix: Water Lab File ID: U1901060.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:01
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 21:19
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43B-080718</u>	Lab Sample ID: <u>240-99625-26</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901061.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 21:41</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43B-080718</u>	Lab Sample ID: <u>240-99625-26</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901061.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:05</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 21:41</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.17	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW43B-080718 Lab Sample ID: 240-99625-26
 Matrix: Water Lab File ID: U1901061.d
 Analysis Method: 8260C Date Collected: 08/07/2018 12:05
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 21:41
 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.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		61-138
460-00-4	4-Bromofluorobenzene (Surr)	101		69-120
2037-26-5	Toluene-d8 (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW43B-080718 Lab Sample ID: 240-99625-26
Matrix: Water Lab File ID: U1901061.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:05
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 21:41
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.: 340666 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW43B-080718 Lab Sample ID: 240-99625-26
Matrix: Water Lab File ID: U1901061.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:05
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 21:41
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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW43C-080718 Lab Sample ID: 240-99625-27

Matrix: Water Lab File ID: U1901062.d

Analysis Method: 8260C Date Collected: 08/07/2018 12:10

Sample wt/vol: 5(mL) Date Analyzed: 08/13/2018 22:03

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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43C-080718</u>	Lab Sample ID: <u>240-99625-27</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901062.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:10</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 22:03</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>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW43C-080718 Lab Sample ID: 240-99625-27
 Matrix: Water Lab File ID: U1901062.d
 Analysis Method: 8260C Date Collected: 08/07/2018 12:10
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 22:03
 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.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		61-138
460-00-4	4-Bromofluorobenzene (Surr)	94		69-120
2037-26-5	Toluene-d8 (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW43C-080718 Lab Sample ID: 240-99625-27
Matrix: Water Lab File ID: U1901062.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:10
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 22:03
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.: 340666 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW43C-080718 Lab Sample ID: 240-99625-27
Matrix: Water Lab File ID: U1901062.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:10
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 22:03
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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW43D-080718 Lab Sample ID: 240-99625-28

Matrix: Water Lab File ID: U1901063.d

Analysis Method: 8260C Date Collected: 08/07/2018 12:15

Sample wt/vol: 5(mL) Date Analyzed: 08/13/2018 22:26

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW43D-080718</u>	Lab Sample ID: <u>240-99625-28</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901063.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 22:26</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW43D-080718 Lab Sample ID: 240-99625-28
 Matrix: Water Lab File ID: U1901063.d
 Analysis Method: 8260C Date Collected: 08/07/2018 12:15
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 22:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		61-138
460-00-4	4-Bromofluorobenzene (Surr)	96		69-120
2037-26-5	Toluene-d8 (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW43D-080718 Lab Sample ID: 240-99625-28
Matrix: Water Lab File ID: U1901063.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:15
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 22:26
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW43D-080718 Lab Sample ID: 240-99625-28
Matrix: Water Lab File ID: U1901063.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:15
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 22:26
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW44A-080718 Lab Sample ID: 240-99625-29

Matrix: Water Lab File ID: U1901064.d

Analysis Method: 8260C Date Collected: 08/07/2018 11:40

Sample wt/vol: 5(mL) Date Analyzed: 08/13/2018 22:48

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44A-080718</u>	Lab Sample ID: <u>240-99625-29</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901064.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:40</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/13/2018 22:48</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW44A-080718 Lab Sample ID: 240-99625-29
 Matrix: Water Lab File ID: U1901064.d
 Analysis Method: 8260C Date Collected: 08/07/2018 11:40
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 22:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		61-138
460-00-4	4-Bromofluorobenzene (Surr)	105		69-120
2037-26-5	Toluene-d8 (Surr)	112		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44A-080718</u>	Lab Sample ID: <u>240-99625-29</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901064.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 22:48</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>340666</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW44A-080718 Lab Sample ID: 240-99625-29
Matrix: Water Lab File ID: U1901064.d
Analysis Method: 8260C Date Collected: 08/07/2018 11:40
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 22:48
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW44B-080718 Lab Sample ID: 240-99625-30

Matrix: Water Lab File ID: U1901065.d

Analysis Method: 8260C Date Collected: 08/07/2018 11:47

Sample wt/vol: 5(mL) Date Analyzed: 08/13/2018 23:10

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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44B-080718</u>	Lab Sample ID: <u>240-99625-30</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901065.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:47</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/13/2018 23:10</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>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW44B-080718 Lab Sample ID: 240-99625-30
 Matrix: Water Lab File ID: U1901065.d
 Analysis Method: 8260C Date Collected: 08/07/2018 11:47
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 23:10
 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.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		61-138
460-00-4	4-Bromofluorobenzene (Surr)	97		69-120
2037-26-5	Toluene-d8 (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44B-080718</u>	Lab Sample ID: <u>240-99625-30</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901065.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:47</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 23:10</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>340666</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW44B-080718 Lab Sample ID: 240-99625-30
Matrix: Water Lab File ID: U1901065.d
Analysis Method: 8260C Date Collected: 08/07/2018 11:47
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 23:10
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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW44C-080718 Lab Sample ID: 240-99625-31

Matrix: Water Lab File ID: U1901066.d

Analysis Method: 8260C Date Collected: 08/07/2018 11:52

Sample wt/vol: 5(mL) Date Analyzed: 08/13/2018 23:32

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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44C-080718</u>	Lab Sample ID: <u>240-99625-31</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901066.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:52</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 23:32</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>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW44C-080718 Lab Sample ID: 240-99625-31
 Matrix: Water Lab File ID: U1901066.d
 Analysis Method: 8260C Date Collected: 08/07/2018 11:52
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 23:32
 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.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		61-138
460-00-4	4-Bromofluorobenzene (Surr)	96		69-120
2037-26-5	Toluene-d8 (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW44C-080718 Lab Sample ID: 240-99625-31
Matrix: Water Lab File ID: U1901066.d
Analysis Method: 8260C Date Collected: 08/07/2018 11:52
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 23:32
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.: 340666 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW44C-080718 Lab Sample ID: 240-99625-31
Matrix: Water Lab File ID: U1901066.d
Analysis Method: 8260C Date Collected: 08/07/2018 11:52
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 23:32
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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW44D-080718 Lab Sample ID: 240-99625-32

Matrix: Water Lab File ID: U1901067.d

Analysis Method: 8260C Date Collected: 08/07/2018 11:55

Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 23:54

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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44D-080718</u>	Lab Sample ID: <u>240-99625-32</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901067.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 23:54</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>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW44D-080718 Lab Sample ID: 240-99625-32
 Matrix: Water Lab File ID: U1901067.d
 Analysis Method: 8260C Date Collected: 08/07/2018 11:55
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 23:54
 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.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		61-138
460-00-4	4-Bromofluorobenzene (Surr)	97		69-120
2037-26-5	Toluene-d8 (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW44D-080718</u>	Lab Sample ID: <u>240-99625-32</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901067.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/13/2018 23:54</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>340666</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW44D-080718 Lab Sample ID: 240-99625-32
Matrix: Water Lab File ID: U1901067.d
Analysis Method: 8260C Date Collected: 08/07/2018 11:55
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 23:54
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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW45A-080718 Lab Sample ID: 240-99625-33

Matrix: Water Lab File ID: U1901068.d

Analysis Method: 8260C Date Collected: 08/07/2018 11:20

Sample wt/vol: 5(mL) Date Analyzed: 08/14/2018 00:16

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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45A-080718</u>	Lab Sample ID: <u>240-99625-33</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901068.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:20</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/14/2018 00:16</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>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW45A-080718 Lab Sample ID: 240-99625-33
 Matrix: Water Lab File ID: U1901068.d
 Analysis Method: 8260C Date Collected: 08/07/2018 11:20
 Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 00:16
 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.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		61-138
460-00-4	4-Bromofluorobenzene (Surr)	93		69-120
2037-26-5	Toluene-d8 (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45A-080718</u>	Lab Sample ID: <u>240-99625-33</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901068.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 00:16</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>340666</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW45A-080718 Lab Sample ID: 240-99625-33
Matrix: Water Lab File ID: U1901068.d
Analysis Method: 8260C Date Collected: 08/07/2018 11:20
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 00:16
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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW45B-080718 Lab Sample ID: 240-99625-34

Matrix: Water Lab File ID: U1901069.d

Analysis Method: 8260C Date Collected: 08/07/2018 11:26

Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 00:39

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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45B-080718</u>	Lab Sample ID: <u>240-99625-34</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901069.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:26</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 00:39</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>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW45B-080718 Lab Sample ID: 240-99625-34
 Matrix: Water Lab File ID: U1901069.d
 Analysis Method: 8260C Date Collected: 08/07/2018 11:26
 Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 00:39
 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.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		61-138
460-00-4	4-Bromofluorobenzene (Surr)	99		69-120
2037-26-5	Toluene-d8 (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45B-080718</u>	Lab Sample ID: <u>240-99625-34</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901069.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:26</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 00:39</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>340666</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW45B-080718 Lab Sample ID: 240-99625-34
Matrix: Water Lab File ID: U1901069.d
Analysis Method: 8260C Date Collected: 08/07/2018 11:26
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 00:39
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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45C-080718</u>	Lab Sample ID: <u>240-99625-35</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901070.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:31</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 01:01</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>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichloroethane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	1.0	U	1.0	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	6.0		5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45C-080718</u>	Lab Sample ID: <u>240-99625-35</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901070.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:31</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 01:01</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>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW45C-080718 Lab Sample ID: 240-99625-35
 Matrix: Water Lab File ID: U1901070.d
 Analysis Method: 8260C Date Collected: 08/07/2018 11:31
 Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 01:01
 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.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		61-138
460-00-4	4-Bromofluorobenzene (Surr)	96		69-120
2037-26-5	Toluene-d8 (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW45C-080718 Lab Sample ID: 240-99625-35
Matrix: Water Lab File ID: U1901070.d
Analysis Method: 8260C Date Collected: 08/07/2018 11:31
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 01:01
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.: 340666 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW45C-080718 Lab Sample ID: 240-99625-35
Matrix: Water Lab File ID: U1901070.d
Analysis Method: 8260C Date Collected: 08/07/2018 11:31
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 01:01
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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW45D-080718 Lab Sample ID: 240-99625-36

Matrix: Water Lab File ID: U1901071.d

Analysis Method: 8260C Date Collected: 08/07/2018 11:35

Sample wt/vol: 5(mL) Date Analyzed: 08/14/2018 01:23

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.: 340666 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.5		5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45D-080718</u>	Lab Sample ID: <u>240-99625-36</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901071.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 01:23</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>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW45D-080718 Lab Sample ID: 240-99625-36
 Matrix: Water Lab File ID: U1901071.d
 Analysis Method: 8260C Date Collected: 08/07/2018 11:35
 Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 01:23
 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.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		61-138
460-00-4	4-Bromofluorobenzene (Surr)	94		69-120
2037-26-5	Toluene-d8 (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW45D-080718</u>	Lab Sample ID: <u>240-99625-36</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901071.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 11:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 01:23</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>340666</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW45D-080718 Lab Sample ID: 240-99625-36
Matrix: Water Lab File ID: U1901071.d
Analysis Method: 8260C Date Collected: 08/07/2018 11:35
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 01:23
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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: EL-SW01A-080718 Lab Sample ID: 240-99625-37

Matrix: Water Lab File ID: U1901072.d

Analysis Method: 8260C Date Collected: 08/07/2018 10:25

Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 01:45

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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>EL-SW01A-080718</u>	Lab Sample ID: <u>240-99625-37</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901072.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:25</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/14/2018 01:45</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>340666</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.20	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: EL-SW01A-080718 Lab Sample ID: 240-99625-37
 Matrix: Water Lab File ID: U1901072.d
 Analysis Method: 8260C Date Collected: 08/07/2018 10:25
 Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 01:45
 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.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		61-138
460-00-4	4-Bromofluorobenzene (Surr)	96		69-120
2037-26-5	Toluene-d8 (Surr)	114		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>EL-SW01A-080718</u>	Lab Sample ID: <u>240-99625-37</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901072.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 01:45</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>340666</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: EL-SW01A-080718 Lab Sample ID: 240-99625-37
Matrix: Water Lab File ID: U1901072.d
Analysis Method: 8260C Date Collected: 08/07/2018 10:25
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 01:45
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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: EL-SW01B-080718 Lab Sample ID: 240-99625-38

Matrix: Water Lab File ID: U1901082.d

Analysis Method: 8260C Date Collected: 08/07/2018 10:30

Sample wt/vol: 5(mL) Date Analyzed: 08/14/2018 20:04

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.: 340909 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>EL-SW01B-080718</u>	Lab Sample ID: <u>240-99625-38</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901082.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:30</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/14/2018 20:04</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>340909</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: EL-SW01B-080718 Lab Sample ID: 240-99625-38
 Matrix: Water Lab File ID: U1901082.d
 Analysis Method: 8260C Date Collected: 08/07/2018 10:30
 Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 20:04
 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.: 340909 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		61-138
460-00-4	4-Bromofluorobenzene (Surr)	99		69-120
2037-26-5	Toluene-d8 (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>EL-SW01B-080718</u>	Lab Sample ID: <u>240-99625-38</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901082.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 20:04</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>340909</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: EL-SW01B-080718 Lab Sample ID: 240-99625-38
Matrix: Water Lab File ID: U1901082.d
Analysis Method: 8260C Date Collected: 08/07/2018 10:30
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 20:04
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.: 340909 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: EL-SW01C-080718 Lab Sample ID: 240-99625-39

Matrix: Water Lab File ID: U1901083.d

Analysis Method: 8260C Date Collected: 08/07/2018 10:35

Sample wt/vol: 5(mL) Date Analyzed: 08/14/2018 20:26

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.: 340909 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>EL-SW01C-080718</u>	Lab Sample ID: <u>240-99625-39</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901083.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 20:26</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>340909</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: EL-SW01C-080718 Lab Sample ID: 240-99625-39
 Matrix: Water Lab File ID: U1901083.d
 Analysis Method: 8260C Date Collected: 08/07/2018 10:35
 Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 20:26
 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.: 340909 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		61-138
460-00-4	4-Bromofluorobenzene (Surr)	92		69-120
2037-26-5	Toluene-d8 (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>EL-SW01C-080718</u>	Lab Sample ID: <u>240-99625-39</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901083.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 20:26</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>340909</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: EL-SW01C-080718 Lab Sample ID: 240-99625-39
Matrix: Water Lab File ID: U1901083.d
Analysis Method: 8260C Date Collected: 08/07/2018 10:35
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 20:26
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.: 340909 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>EL-SW01D-080718</u>	Lab Sample ID: <u>240-99625-40</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901084.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 20:48</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>340909</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>EL-SW01D-080718</u>	Lab Sample ID: <u>240-99625-40</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901084.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:40</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/14/2018 20:48</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>340909</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: EL-SW01D-080718 Lab Sample ID: 240-99625-40
 Matrix: Water Lab File ID: U1901084.d
 Analysis Method: 8260C Date Collected: 08/07/2018 10:40
 Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 20:48
 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.: 340909 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		61-138
460-00-4	4-Bromofluorobenzene (Surr)	95		69-120
2037-26-5	Toluene-d8 (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>EL-SW01D-080718</u>	Lab Sample ID: <u>240-99625-40</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901084.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 10:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 20:48</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>340909</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: EL-SW01D-080718 Lab Sample ID: 240-99625-40
Matrix: Water Lab File ID: U1901084.d
Analysis Method: 8260C Date Collected: 08/07/2018 10:40
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 20:48
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.: 340909 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>TB-080718</u>	Lab Sample ID: <u>240-99625-41</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901085.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 00:00</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/14/2018 21:10</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>340909</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>TB-080718</u>	Lab Sample ID: <u>240-99625-41</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901085.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 21:10</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>340909</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: TB-080718 Lab Sample ID: 240-99625-41
 Matrix: Water Lab File ID: U1901085.d
 Analysis Method: 8260C Date Collected: 08/07/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 21:10
 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.: 340909 Units: ug/L

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

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

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>TB-080718</u>	Lab Sample ID: <u>240-99625-41</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901085.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 21:10</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>340909</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: TB-080718 Lab Sample ID: 240-99625-41
Matrix: Water Lab File ID: U1901085.d
Analysis Method: 8260C Date Collected: 08/07/2018 00:00
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 21:10
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.: 340909 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW46A-080718</u>	Lab Sample ID: <u>240-99625-42</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901086.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:24</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/14/2018 21:33</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>340909</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW46A-080718</u>	Lab Sample ID: <u>240-99625-42</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901086.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:24</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/14/2018 21:33</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>340909</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	0.45	J	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.17	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW46A-080718 Lab Sample ID: 240-99625-42
 Matrix: Water Lab File ID: U1901086.d
 Analysis Method: 8260C Date Collected: 08/07/2018 13:24
 Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 21:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 340909 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		61-138
460-00-4	4-Bromofluorobenzene (Surr)	91		69-120
2037-26-5	Toluene-d8 (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW46A-080718 Lab Sample ID: 240-99625-42
Matrix: Water Lab File ID: U1901086.d
Analysis Method: 8260C Date Collected: 08/07/2018 13:24
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 21:33
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340909 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW46A-080718 Lab Sample ID: 240-99625-42
Matrix: Water Lab File ID: U1901086.d
Analysis Method: 8260C Date Collected: 08/07/2018 13:24
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 21:33
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 340909 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW47A-080718</u>	Lab Sample ID: <u>240-99625-43</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901087.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:04</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 21:55</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>340909</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW47A-080718</u>	Lab Sample ID: <u>240-99625-43</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901087.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:04</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/14/2018 21:55</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>340909</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	0.26	J	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.17	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW47A-080718 Lab Sample ID: 240-99625-43
 Matrix: Water Lab File ID: U1901087.d
 Analysis Method: 8260C Date Collected: 08/07/2018 13:04
 Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 21:55
 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.: 340909 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		61-138
460-00-4	4-Bromofluorobenzene (Surr)	100		69-120
2037-26-5	Toluene-d8 (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW47A-080718</u>	Lab Sample ID: <u>240-99625-43</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901087.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 13:04</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 21:55</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>340909</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW47A-080718 Lab Sample ID: 240-99625-43
Matrix: Water Lab File ID: U1901087.d
Analysis Method: 8260C Date Collected: 08/07/2018 13:04
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 21:55
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.: 340909 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW48A-080718</u>	Lab Sample ID: <u>240-99625-44</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901088.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:40</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/14/2018 22:17</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>340909</u>	Units: <u>ug/L</u>

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW48A-080718</u>	Lab Sample ID: <u>240-99625-44</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901088.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 22:17</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>340909</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.17	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW48A-080718 Lab Sample ID: 240-99625-44
 Matrix: Water Lab File ID: U1901088.d
 Analysis Method: 8260C Date Collected: 08/07/2018 12:40
 Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 22:17
 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.: 340909 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		61-138
460-00-4	4-Bromofluorobenzene (Surr)	98		69-120
2037-26-5	Toluene-d8 (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW48A-080718</u>	Lab Sample ID: <u>240-99625-44</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901088.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 22:17</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>340909</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW48A-080718 Lab Sample ID: 240-99625-44
Matrix: Water Lab File ID: U1901088.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:40
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 22:17
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.: 340909 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: MSA-SW49A-080718 Lab Sample ID: 240-99625-45

Matrix: Water Lab File ID: U1901089.d

Analysis Method: 8260C Date Collected: 08/07/2018 12:20

Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 22:39

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.: 340909 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	7.5		5.0	5.4
71-43-2	Benzene	0.17	J	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW49A-080718</u>	Lab Sample ID: <u>240-99625-45</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901089.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 22:39</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>340909</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.37	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	0.19	J	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.32	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	0.26	J	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	0.19	J	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: MSA-SW49A-080718 Lab Sample ID: 240-99625-45
 Matrix: Water Lab File ID: U1901089.d
 Analysis Method: 8260C Date Collected: 08/07/2018 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 22:39
 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.: 340909 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		61-138
460-00-4	4-Bromofluorobenzene (Surr)	96		69-120
2037-26-5	Toluene-d8 (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		69-124

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

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: <u>MSA-SW49A-080718</u>	Lab Sample ID: <u>240-99625-45</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901089.d</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>08/07/2018 12:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/14/2018 22:39</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>340909</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: MSA-SW49A-080718 Lab Sample ID: 240-99625-45
Matrix: Water Lab File ID: U1901089.d
Analysis Method: 8260C Date Collected: 08/07/2018 12:20
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 22:39
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.: 340909 Units: ug/L

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

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37A-080718

Lab Sample ID: 240-99625-1

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:45

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.71	2.0	0.57	ug/L	J		1	6020
7440-38-2	Arsenic	1.9	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	0.21	1.0	0.21	ug/L	J		1	6020
7440-47-3	Chromium	2.5	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	0.28	1.0	0.19	ug/L	J		1	6020
7440-50-8	Copper	6.5	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	0.65	1.0	0.45	ug/L	J		1	6020
7439-98-7	Molybdenum	1.9	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.7	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	1.1	5.0	0.89	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	2.1	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37A-080718

Lab Sample ID: 240-99625-1

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:45

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	180	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	44	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	130	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37B-080718

Lab Sample ID: 240-99625-2

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:49

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	1.3	2.0	0.57	ug/L	J		1	6020
7440-38-2	Arsenic	2.1	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	0.36	1.0	0.31	ug/L	J		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.7	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	0.22	1.0	0.19	ug/L	J		1	6020
7440-50-8	Copper	14	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	0.61	1.0	0.45	ug/L	J		1	6020
7439-98-7	Molybdenum	1.9	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.7	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	1.4	5.0	0.89	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.9	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37B-080718

Lab Sample ID: 240-99625-2

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:49

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	180	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	43	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	140	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37C-080718

Lab Sample ID: 240-99625-3

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:53

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	1.5	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.5	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.4	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.5	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	1.1	5.0	0.89	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.5	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37C-080718

Lab Sample ID: 240-99625-3

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:53

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	180	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	44	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	130	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37D-080718

Lab Sample ID: 240-99625-4

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:57

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	1.5	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.5	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.6	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.6	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.6	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37D-080718

Lab Sample ID: 240-99625-4

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:57

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	180	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	44	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	140	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38A-080718

Lab Sample ID: 240-99625-5

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:45

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.0	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.4	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.0	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.7	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38A-080718

Lab Sample ID: 240-99625-5

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:45

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	190	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	45	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	140	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38B-080718

Lab Sample ID: 240-99625-6

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:50

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	1.6	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.3	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	5.9	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.6	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38B-080718

Lab Sample ID: 240-99625-6

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:50

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	180	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	42	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	140	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38C-080718

Lab Sample ID: 240-99625-7

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:54

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.1	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.5	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.8	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.5	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	1.1	5.0	0.89	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.4	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38C-080718

Lab Sample ID: 240-99625-7

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:54

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	200	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	47	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	150	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38D-080718

Lab Sample ID: 240-99625-8

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:59

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	1.6	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.5	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.7	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.7	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	0.98	5.0	0.89	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.8	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38D-080718

Lab Sample ID: 240-99625-8

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:59

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	200	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	47	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	150	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39A-080718

Lab Sample ID: 240-99625-9

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 10:50

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	1.8	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.5	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	3.5	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.6	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	1.1	5.0	0.89	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.5	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39A-080718

Lab Sample ID: 240-99625-9

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 10:50

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	200	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	50	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	150	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39B-080718

Lab Sample ID: 240-99625-10

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 10:53

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	1.6	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.4	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	9.8	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.9	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.5	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	1.0	5.0	0.89	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.5	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39B-080718

Lab Sample ID: 240-99625-10

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 10:53

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	200	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	44	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	160	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39C-080718

Lab Sample ID: 240-99625-11

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 10:56

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	1.2	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.4	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	4.3	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	1.1	5.0	0.89	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.5	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39C-080718

Lab Sample ID: 240-99625-11

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 10:56

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	200	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	42	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	160	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39D-080718

Lab Sample ID: 240-99625-12

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 10:59

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	1.4	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.4	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	4.0	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	1.1	5.0	0.89	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.5	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39D-080718

Lab Sample ID: 240-99625-12

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 10:59

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	200	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	41	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	160	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40A-080718

Lab Sample ID: 240-99625-13

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:09

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.0	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.4	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.4	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.7	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40A-080718

Lab Sample ID: 240-99625-13

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:09

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	190	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	45	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	150	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40B-080718

Lab Sample ID: 240-99625-14

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:14

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	1.5	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.4	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.5	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.8	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40B-080718

Lab Sample ID: 240-99625-14

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:14

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	190	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	44	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	150	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40C-080718

Lab Sample ID: 240-99625-15

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:17

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	1.7	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.2	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.1	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.6	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40C-080718

Lab Sample ID: 240-99625-15

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:17

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	180	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	42	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	140	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40D-080718

Lab Sample ID: 240-99625-16

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:20

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	1.9	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.5	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	7.7	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.9	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.8	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.7	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40D-080718

Lab Sample ID: 240-99625-16

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:20

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	180	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	43	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	140	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41A-080718

Lab Sample ID: 240-99625-17

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:24

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	1.7	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.3	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.0	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.8	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41A-080718

Lab Sample ID: 240-99625-17

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:24

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	190	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	44	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	150	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41B-080718

Lab Sample ID: 240-99625-18

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:29

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	1.6	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.3	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	9.4	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.7	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.9	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.8	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41B-080718

Lab Sample ID: 240-99625-18

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:29

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	180	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	42	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	140	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41C-080718

Lab Sample ID: 240-99625-19

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:33

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.0	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.2	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.4	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.9	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.6	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41C-080718

Lab Sample ID: 240-99625-19

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:33

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	190	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	45	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	150	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41D-080718

Lab Sample ID: 240-99625-20

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:37

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.0	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.3	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.6	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.9	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.6	5.0	0.82	ug/L	J		1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41D-080718

Lab Sample ID: 240-99625-20

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:37

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	190	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	45	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	150	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42A-080718

Lab Sample ID: 240-99625-21

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:29

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.3	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.6	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	0.19	1.0	0.19	ug/L	J		1	6020
7440-50-8	Copper	6.0	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.9	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	2.2	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42A-080718

Lab Sample ID: 240-99625-21

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:29

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	190	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	46	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	140	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42B-080718

Lab Sample ID: 240-99625-22

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:33

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.2	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.5	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.5	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.6	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.6	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42B-080718

Lab Sample ID: 240-99625-22

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:33

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	190	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	46	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	140	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42C-080718

Lab Sample ID: 240-99625-23

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:37

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.3	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.6	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.4	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.7	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42C-080718

Lab Sample ID: 240-99625-23

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:37

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	190	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	46	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	140	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42D-080718

Lab Sample ID: 240-99625-24

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:40

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.2	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.7	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.4	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.9	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	2.0	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42D-080718

Lab Sample ID: 240-99625-24

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 13:40

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	180	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	45	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	140	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43A-080718

Lab Sample ID: 240-99625-25

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:01

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.3	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.6	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.4	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.6	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43A-080718

Lab Sample ID: 240-99625-25

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:01

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	190	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	45	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	140	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43B-080718

Lab Sample ID: 240-99625-26

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:05

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.2	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.7	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.6	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.5	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	2.1	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43B-080718

Lab Sample ID: 240-99625-26

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:05

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	200	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	46	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	150	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43C-080718

Lab Sample ID: 240-99625-27

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:10

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.3	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.8	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.9	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.9	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.5	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	2.2	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43C-080718

Lab Sample ID: 240-99625-27

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:10

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	200	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	47	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	150	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43D-080718

Lab Sample ID: 240-99625-28

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:15

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.4	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.8	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	7.0	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	2.0	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.6	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	2.0	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43D-080718

Lab Sample ID: 240-99625-28

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 12:15

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	210	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	49	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	160	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44A-080718

Lab Sample ID: 240-99625-29

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:40

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.3	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.9	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	0.32	1.0	0.19	ug/L	J		1	6020
7440-50-8	Copper	6.9	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.9	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.9	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.9	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44A-080718

Lab Sample ID: 240-99625-29

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:40

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	200	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	46	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	150	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44B-080718

Lab Sample ID: 240-99625-30

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:47

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.3	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.8	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.6	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.8	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44B-080718

Lab Sample ID: 240-99625-30

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:47

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	190	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	45	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	150	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44C-080718

Lab Sample ID: 240-99625-31

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:52

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.2	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	11	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.7	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.7	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.5	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44C-080718

Lab Sample ID: 240-99625-31

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:52

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	190	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	45	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	150	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44D-080718

Lab Sample ID: 240-99625-32

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:55

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.4	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.9	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	7.0	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.9	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.5	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.8	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44D-080718

Lab Sample ID: 240-99625-32

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:55

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	200	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	47	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	150	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45A-080718

Lab Sample ID: 240-99625-33

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:20

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.2	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	13	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.9	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	0.32	1.0	0.19	ug/L	J		1	6020
7440-50-8	Copper	3.7	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.8	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.7	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.7	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45A-080718
Lab Name: TestAmerica Canton
SDG ID.:
Matrix: Water
Reporting Basis: WET

Lab Sample ID: 240-99625-33
Job No.: 240-99625-1
Date Sampled: 08/07/2018 11:20
Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	210	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	49	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	170	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45B-080718

Lab Sample ID: 240-99625-34

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:26

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.2	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.8	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	15	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	0.62	1.0	0.45	ug/L	J		1	6020
7439-98-7	Molybdenum	1.9	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.6	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.5	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45B-080718

Lab Sample ID: 240-99625-34

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:26

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	210	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	46	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	160	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45C-080718

Lab Sample ID: 240-99625-35

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:31

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.2	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.7	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	5.7	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	1.9	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	2.0	2.0	1.5	ug/L	U		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.8	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45C-080718

Lab Sample ID: 240-99625-35

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:31

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	200	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	46	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	160	21		mg/L			1	SM 2340B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45D-080718

Lab Sample ID: 240-99625-36

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:35

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	2.0	2.0	0.57	ug/L	U		1	6020
7440-38-2	Arsenic	2.3	5.0	0.75	ug/L	J		1	6020
7440-39-3	Barium	12	5.0	2.2	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.31	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.21	ug/L	U		1	6020
7440-47-3	Chromium	2.8	2.0	0.98	ug/L		B	1	6020
7440-48-4	Cobalt	1.0	1.0	0.19	ug/L	U		1	6020
7440-50-8	Copper	6.0	2.0	1.7	ug/L			1	6020
7439-92-1	Lead	1.0	1.0	0.45	ug/L	U		1	6020
7439-98-7	Molybdenum	2.0	5.0	1.1	ug/L	J		1	6020
7440-02-0	Nickel	1.5	2.0	1.5	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.89	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.053	ug/L	U		1	6020
7440-28-0	Thallium	1.0	1.0	0.20	ug/L	U		1	6020
7440-62-2	Vanadium	1.8	5.0	0.82	ug/L	J	B	1	6020
7440-66-6	Zinc	20	20	15	ug/L	U		1	6020
7440-33-7	Tungsten	10	10	1.8	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.13	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45D-080718

Lab Sample ID: 240-99625-36

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG ID.:

Matrix: Water

Date Sampled: 08/07/2018 11:35

Reporting Basis: WET

Date Received: 08/08/2018 09:15

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Hardness as calcium carbonate	210	33		mg/L			1	SM 2340B
	Calcium hardness as calcium carbonate	47	12		mg/L			1	SM 2340B
	Magnesium hardness as calcium carbonate	160	21		mg/L			1	SM 2340B

Appendix C

Support Documentation

LMC - MARTIN STATE AIRPORT
SDG 240-99625-1

SAMPLE IDENTIFICATION

MSA-SW38A-080718

COMPOUND

VINYL CHLORIDE

COMPOUND AREA 7329

INTERNAL STANDARD AMOUNT (ng) 100

VOLUME WATER PURGED (ml) 5

DILUTION FACTOR 1

INTERNAL STANDARD AREA 984455

AVERAGE RRF 0.2477

ml to μ l 1000

ng to μ g 1000

0.60 μ g/L

$7329 \times 100\text{ng} \times 1 \times 1000\text{ml} \times 1\mu\text{g} / 984455 \times 0.2477 \times 5\text{ml} \times 1\text{L} \times 1000\text{ng}$

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX12\20180813-78854.b\U1265890.D
 Lims ID: 240-99625-B-5
 Client ID: MSA-SW38A-080718
 Sample Type: Client
 Inject. Date: 13-Aug-2018 16:03:30 ALS Bottle#: 19 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0078854-019
 Operator ID: 001765 Instrument ID: A3UX12
 Method: \\ChromNA\Canton\ChromData\A3UX12\20180813-78854.b\8260_12.m
 Limit Group: MSV 8260C ICAL
 Last Update: 14-Aug-2018 08:46:26 Calib Date: 25-Jul-2018 15:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Canton\ChromData\A3UX12\20180725-78302.b\U1265358.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK008

First Level Reviewer: bosworthh

Date: 14-Aug-2018 08:46:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.095	5.095	0.000	99	984455	20.0	
* 2 Chlorobenzene-d5	117	7.758	7.758	0.000	83	749515	20.0	
* 3 1,4-Dichlorobenzene-d4	152	9.970	9.970	0.000	94	446718	20.0	
\$ 4 Dibromofluoromethane (Surr	111	4.539	4.539	0.000	94	265675	21.6	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.823	4.823	0.000	94	291974	23.8	
\$ 6 Toluene-d8 (Surr)	98	6.456	6.456	0.000	92	900539	21.8	
\$ 7 4-Bromofluorobenzene (Surr	95	8.858	8.858	0.000	96	337147	21.6	
9 Dichlorodifluoromethane	85		1.392				ND	
10 Chloromethane	50		1.581				ND	
11 Vinyl chloride	62	1.664	1.675	-0.011	95	7329	0.6010	
13 Bromomethane	94		1.900				ND	
14 Chloroethane	64		1.971				ND	
16 Trichlorofluoromethane	101		2.220				ND	
21 1,1-Dichloroethene	61		2.634				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.646				ND	
22 Acetone	43	2.693	2.693	0.000	99	34463	7.42	
24 Carbon disulfide	76		2.835				ND	
28 Methylene Chloride	49		3.048				ND	
29 2-Methyl-2-propanol	59		3.166				ND	U
32 trans-1,2-Dichloroethene	61		3.285				ND	
31 Methyl tert-butyl ether	73		3.285				ND	
34 1,1-Dichloroethane	63		3.640				ND	
35 Vinyl acetate	43		3.687				ND	
36 Isopropyl ether	87		3.699				ND	
38 Tert-butyl ethyl ether	59		4.007				ND	
39 2,2-Dichloropropane	77		4.125				ND	
40 cis-1,2-Dichloroethene	96	4.137	4.137	0.000	75	3182	0.2270	
41 2-Butanone (MEK)	72		4.149				ND	
45 Chlorobromomethane	49		4.338				ND	
47 Chloroform	83		4.397				ND	
48 1,1,1-Trichloroethane	97		4.551				ND	
50 1,1-Dichloropropene	75		4.681				ND	

Sample Report

Sample Table

Sample Name 240-99625-d-35-a
 Data File Name 112SMPL.d
 Data Path Name D:\Analytical Runs\I10081618C.b
 Acq Date Time 2018-08-17T02:05:55-04:00
 Sample Type Sample
 Dilution 1
 Comment
 ISTD Ref FileName 002CALB.d
 Sample QC Pass/Fail Pass
 ISTD Pass/Fail Pass

QC Analyte Table

Name	Mass	ISTD Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	45	2	NoGas	6.042	6.042	1.88	306319	0.00	10000	
Be	9	45	2	NoGas	-0.006	-0.006	-38.26	343	0.00	2000	
B	11	45	2	NoGas	177.625	177.625	0.48	709250	0.03	300	
Na	23	45	1	He	300814.741	300814.741	0.97	289354396	0.10	500000	
Mg	24	45	1	He	38479.016	38479.016	1.61	19841893	0.19	500000	
Al	27	45	1	He	9.276	9.276	1.79	5738	0.16	200000	
K	39	45	1	He	13572.093	13572.093	1.36	8611997	0.16	500000	
Ca	44	45	1	He	18324.402	18324.402	0.30	516481	3.55	500000	
Ti	47	45	1	He	0.264	0.264	16.14	61	0.44	2500	
V	51	45	1	He	1.820	1.820	26.36	7217	0.03	10000	
Cr	52	45	1	He	2.737	2.737	1.53	12194	0.02	10000	
Mn	55	45	1	He	5.986	5.986	1.47	17082	0.04	10000	
Fe	56	45	1	He	11.628	11.628	2.96	71147	0.02	200000	
Co	59	45	1	He	0.083	0.083	18.26	509	0.02	5000	
Ni	60	103	1	He	1.370	1.370	7.26	1626	0.08	10000	
Cu	63	45	1	He	5.686	5.686	1.95	15530	0.04	10000	
Zn	66	45	1	He	4.227	4.227	5.49	2781	0.15	10000	
As	75	115	1	He	2.170	2.170	0.94	1082	0.20	10000	
Se	78	115	1	He	0.525	0.525	37.71	99	0.53	10000	
Sr	88	103	1	He	276.381	276.381	0.34	606868	0.05	10000	
Mo	95	103	1	He	1.919	1.919	6.21	1795	0.11	2000	
Ag	107	103	1	He	-0.005	-0.005	-38.19	23	-0.02	100	
Cd	111	115	1	He	0.049	0.049	91.51	20	0.24	4000	
Sn	118	115	1	He	-0.153	-0.153	-91.73	233	-0.07	2000	
Sb	123	115	1	He	0.222	0.222	26.74	150	0.15	200	
Ba	137	115	1	He	11.668	11.668	2.00	1617	0.72	10000	
W	182	209	1	He	0.337	0.337	14.98	322	0.10	2500	
Tl	205	209	1	He	0.007	0.007	229.45	17	0.04	2000	
Pb	208	209	1	He	0.035	0.035	8.30	81	0.04	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	2298375	4.08	3024569	75.99	60	120	
Sc	45	1	He	1032384	0.85	1374954	75.09	60	120	
Sc	45	2	NoGas	11086616	0.38	14635640	75.75	60	120	
Rh	103	1	He	671416	0.86	917708	73.16	60	120	
In	115	1	He	289913	1.12	380373	76.22	60	120	
Tb	159	1	He	316257	1.54	387112	81.70	60	120	
Ho	165	1	He	308982	0.66	378996	81.53	60	120	
Bi	209	1	He	116860	1.73	154857	75.46	60	120	

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

1.8/1.8
5-2/5-2
2.0/2.0

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Tony Apanavage		Site Contact: Tony Apanavage		Date: 8/7/2018		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		Filtered Sample VOCs + Freon 113/22 + TIC (8260C) Dissolved Metals (6020B/7470A) Hardness				Job No.	
Germantown, MD 20874		Calendar (C) or Work Days (W)						SDG No.	
(301) 528-3021 Phone		TAT if different from Below: STANDARD						Sampler: MULLIS	
(301) 528-3000 FAX		☐ 2 weeks						Sample Specific Notes:	
Project Name: MSA Surface Water Sampling		☐ 1 week							
Site: MSA Frog Mortar Creek		☐ 2 days							
Project # 112IC08424		☐ 1 day							
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.				
MSA-SW37A-080718	8/7/2018	1345	SW	Water	4	x	x	x	x
MSA-SW37B-080718	8/7/2018	1349	SW	Water	4	x	x	x	x
MSA-SW37C-080718	8/7/2018	1353	SW	Water	4	x	x	x	x
MSA-SW37D-080718	8/7/2018	1357	SW	Water	4	x	x	x	x
MSA-SW38A-080718	8/7/2018	1245	SW	Water	4	x	x	x	x
MSA-SW38B-080718	8/7/2018	1250	SW	Water	4	x	x	x	x
MSA-SW38C-080718	8/7/2018	1254	SW	Water	4	x	x	x	x
MSA-SW38D-080718	8/7/2018	1259	SW	Water	4	x	x	x	x
MSA-SW39A-080718	8/7/2018	1050	SW	Water	4	x	x	x	x
MSA-SW39B-080718	8/7/2018	1053	SW	Water	4	x	x	x	x
MSA-SW39C-080718	8/7/2018	1056	SW	Water	4	x	x	x	x
MSA-SW39D-080718	8/7/2018	1059	SW	Water	4	x	x	x	x
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						2	4	4	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐						☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months			
Special Instructions/QC Requirements & Comments: DISSOLVED METALS FILTERED IN FIELD									
Relinquished by: <i>[Signature]</i>	Company: Tetra Tech	Date/Time: 8/7/19 600	Received by: <i>[Signature]</i>	Company: TAL	Date/Time: 8-8-18 915				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				



240-99625 Chain of Custody

North Canton

4101 Shuffel Street, N. W.

North Canton, OH 44720

phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Tony Apanavage		Site Contact: Tony Apanavage		Date: 8/7/2018		COC No:	
Tetra Tech		Tel/Fax: 301-233-8230 (cell)		Lab Contact: John McFadden		Carrier: Fedex		2 of 4 COCs	
20251 Century Blvd, Suite 200		Analysis Turnaround Time		Filtered Sample VOCs + Freon 113/22 + TIC (8260C) Dissolved Metals (6020B/7470A) Hardness				Job No.	
Germantown, MD 20874		Calendar (C) or Work Days (W)						SDG No.	
(301) 528-3021 Phone		TAT if different from Below: STANDARD						Sampler: Mullis	
(301) 528-3000 FAX		☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day						Sample Specific Notes:	
Project Name: MSA Surface Water Sampling									
Site: MSA Frog Mortar Creek									
Project # 112IC08424									
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.				
MSA-SW40A-080718	8/7/2018	1309	SW	Water	4	x	x	x	x
MSA-SW40B-080718	8/7/2018	1314	SW	Water	4	x	x	x	x
MSA-SW40C-080718	8/7/2018	1317	SW	Water	4	x	x	x	x
MSA-SW40D-080718	8/7/2018	1320	SW	Water	4	x	x	x	x
MSA-SW41A-080718	8/7/2018	1224	SW	Water	4	x	x	x	x
MSA-SW41B-080718	8/7/2018	1229	SW	Water	4	x	x	x	x
MSA-SW41C-080718	8/7/2018	1233	SW	Water	4	x	x	x	x
MSA-SW41D-080718	8/7/2018	1237	SW	Water	4	x	x	x	x
MSA-SW42A-080718	8/7/2018	1329	SW	Water	4	x	x	x	x
MSA-SW42B-080718	8/7/2018	1333	SW	Water	4	x	x	x	x
MSA-SW42C-080718	8/7/2018	1337	SW	Water	4	x	x	x	x
MSA-SW42D-080718	8/7/2018	1340	SW	Water	4	x	x	x	x
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						2	4	4	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown						☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months			
Special Instructions/QC Requirements & Comments: DISSOLVED METALS FILTERED IN FIELD									
Relinquished by:	Company:		Date/Time:	Received by:	Company:		Date/Time:		
	Tetra Tech		8/7/18 1600		TAL		8-8-18	915	
Relinquished by:	Company:		Date/Time:	Received by:	Company:		Date/Time:		
Relinquished by:	Company:		Date/Time:	Received by:	Company:		Date/Time:		

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Tony Apanavage		Site Contact: Tony Apanavage		Date: 8/7/2018		COC No:	
Tetra Tech		Tel/Fax: 301-233-8230 (cell)		Lab Contact: John McFadden		Carrier: Fedex		3 of 4 COCs	
20251 Century Blvd, Suite 200		Analysis Turnaround Time		Filtered Sample VOCs + Freon 113/22 + TIC (8260C) Dissolved Metals (6020B/7470A) Hardness				Job No.	
Germantown, MD 20874		Calendar (C) or Work Days (W)						SDG No.	
(301) 528-3021 Phone		TAT if different from Below: STANDARD						Sampler: Mullis	
(301) 528-3000 FAX		☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day						Sample Specific Notes:	
Project Name: MSA Surface Water Sampling									
Site: MSA Frog Mortar Creek									
Project # 112IC08424									
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.				
MSA-SW43A-080718	8/7/2018	1201	SW	Water	4	x	x	x	x
MSA-SW43B-080718	8/7/2018	1205	SW	Water	4	x	x	x	x
MSA-SW43C-080718	8/7/2018	1210	SW	Water	4	x	x	x	x
MSA-SW43D-080718	8/7/2018	1215	SW	Water	4	x	x	x	x
MSA-SW44A-080718	8/7/2018	1140	SW	Water	4	x	x	x	x
MSA-SW44B-080718	8/7/2018	1147	SW	Water	4	x	x	x	x
MSA-SW44C-080718	8/7/2018	1152	SW	Water	4	x	x	x	x
MSA-SW44D-080718	8/7/2018	1155	SW	Water	4	x	x	x	x
MSA-SW45A-080718	8/7/2018	1120	SW	Water	4	x	x	x	x
MSA-SW45B-080718	8/7/2018	1126	SW	Water	4	x	x	x	x
MSA-SW45C-080718	8/7/2018	1131	SW	Water	4	x	x	x	x
MSA-SW45D-080718	8/7/2018	1135	SW	Water	4	x	x	x	x
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						2	4	4	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown						☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months			
Special Instructions/QC Requirements & Comments: DISSOLVED METALS FILTERED IN FIELD									
Relinquished by:	Company:		Date/Time:		Received by:	Company:		Date/Time:	
	Tetra Tech		8/7/18 600			TAL		8-8-18 915	
Relinquished by:	Company:		Date/Time:		Received by:	Company:		Date/Time:	
Relinquished by:	Company:		Date/Time:		Received by:	Company:		Date/Time:	

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Tony Apanavage		Site Contact: Tony Apanavage		Date: 8/7/2018		COC No:	
Tetra Tech		Tel/Fax: 301-233-8230 (cell)		Lab Contact: John McFadden		Carrier: Fedex		4 of 4 COCs	
20251 Century Blvd, Suite 200		Analysis Turnaround Time		Filtered Sample VOCs (8260C)				Job No.	
Germantown, MD 20874		Calendar (C) or Work Days (W)							
(301) 528-3021 Phone		TAT if different from Below: STANDARD							
(301) 528-3000 FAX		☐ 2 weeks							
Project Name: MSA Surface Water Sampling		☐ 1 week							
Site: MSA Frog Mortar Creek		☐ 2 days						SDG No.	
Project # 112IC08424		☐ 1 day						Sampler: Mullis	
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.			Sample Specific Notes:
EL-SW01A-080718	8/7/2018	1025	SW	AQ	3		x		
EL-SW01B-080718	8/7/2018	1030	SW	AQ	3		x		
EL-SW01C-080718	8/7/2018	1035	SW	AQ	3		x		
EL-SW01D-080718	8/7/2018	1040	SW	AQ	3		x		
TB-080718	--	--	TB	AQ	2		x		
MSA-SW46A-080718	8/7/2018	1324	SW	AQ	3		x		
MSA-SW47A-080718	8/7/2018	1304	SW	AQ	3		x		
MSA-SW48A-080718	8/7/2018	1240	SW	AQ	3		x		
MSA-SW49A-080718	8/7/2018	1220	SW	AQ	3		x		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							2	1	
Possible Hazard Identification							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown							☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months		
Special Instructions/QC Requirements & Comments: DISSOLVED METALS FILTERED IN FIELD, samples on this page to be analyzed for VOCs ONLY									
Relinquished by: <i>Sophia Lee</i>	Company: Tetra Tech	Date/Time: 8/7/18 1600	Received by: <i>JCP</i>	Company: <i>TAL</i>	Date/Time: 8-8-18 915				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				

Form No. CA-C-W1-002, Rev. 2, dated 03/06/2012

TestAmerica Canton Sample Receipt Form/Narrative		Login # : <u>99625</u>	
Canton Facility			
Client <u>TETRA TECH</u>		Site Name <u>-</u>	
Cooler Received on <u>8-8-18</u>		Opened on <u>8-8-18</u>	
FedEx: 1 st Grd <u>Exp</u> UPS FAS Clipper		Client Drop Off TestAmerica Courier Other	
Receipt After-hours: Drop-off Date/Time		Storage Location	
TestAmerica Cooler # <u>TA</u>		Foam Box Client Cooler Box Other	
Packing material used: <u>Bubble Wrap</u>		Foam <u>Plastic Bag</u> None Other	
COOLANT: <u>Wet Ice</u> <u>Blue Ice</u> Dry Ice Water None			
1. Cooler temperature upon receipt		☒ See Multiple Cooler Form	
IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C			
IR GUN #36 (CF -0.3°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C			
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u>		Yes <u>No</u>	
-Were the seals on the outside of the cooler(s) signed & dated?		Yes <u>No</u> NA	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?		Yes <u>No</u>	
-Were tamper/custody seals intact and uncompromised?		Yes <u>No</u> NA	
3. Shippers' packing slip attached to the cooler(s)?		Yes <u>No</u>	
4. Did custody papers accompany the sample(s)?		Yes <u>No</u>	
5. Were the custody papers relinquished & signed in the appropriate place?		Yes <u>No</u>	
6. Was/were the person(s) who collected the samples clearly identified on the COC?		Yes <u>No</u>	
7. Did all bottles arrive in good condition (Unbroken)?		Yes <u>No</u>	
8. Could all bottle labels be reconciled with the COC?		Yes <u>No</u>	
9. Were correct bottle(s) used for the test(s) indicated?		Yes <u>No</u>	
10. Sufficient quantity received to perform indicated analyses?		Yes <u>No</u>	
11. Are these work share samples?		Yes <u>No</u>	
If yes, Questions 12-16 have been checked at the originating laboratory.			
12. Were all preserved sample(s) at the correct pH upon receipt?		Yes <u>No</u> NA pH Strip Lot# <u>HC849161</u>	
13. Were VOAs on the COC?		Yes <u>No</u>	
14. Were air bubbles >6 mm in any VOA vials?  Larger than this.		Yes <u>No</u> NA	
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # <u>0</u>		Yes <u>No</u>	
16. Was a LL Hg or Me Hg trip blank present?		Yes <u>No</u>	
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other			
Concerning _____			

Tests that are not
checked for pH by
Receiving:

VOAs
Oil and Grease
TOC

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES		Samples processed by: <u>POF</u>	
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): _____	

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
MSA-SW37A-080718	240-99625-D-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW37B-080718	240-99625-D-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW37C-080718	240-99625-D-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW37D-080718	240-99625-D-4	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW38A-080718	240-99625-D-5	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW38B-080718	240-99625-D-6	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW38C-080718	240-99625-D-7	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW38D-080718	240-99625-D-8	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW39A-080718	240-99625-D-9	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW39B-080718	240-99625-D-10	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW39C-080718	240-99625-D-11	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW39D-080718	240-99625-D-12	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW40A-080718	240-99625-D-13	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW40B-080718	240-99625-D-14	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW40C-080718	240-99625-D-15	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW40D-080718	240-99625-D-16	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW41A-080718	240-99625-D-17	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW41B-080718	240-99625-D-18	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW41C-080718	240-99625-D-19	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW41D-080718	240-99625-D-20	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW42A-080718	240-99625-D-21	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW42B-080718	240-99625-D-22	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW42C-080718	240-99625-D-23	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW42D-080718	240-99625-D-24	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW43A-080718	240-99625-D-25	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW43B-080718	240-99625-D-26	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW43C-080718	240-99625-D-27	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW43D-080718	240-99625-D-28	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW44A-080718	240-99625-D-29	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW44B-080718	240-99625-D-30	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW44C-080718	240-99625-D-31	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW44D-080718	240-99625-D-32	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW45A-080718	240-99625-D-33	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW45B-080718	240-99625-D-34	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW45C-080718	240-99625-D-35	Plastic 500ml - with Nitric Acid	<2	_____	_____
MSA-SW45D-080718	240-99625-D-36	Plastic 500ml - with Nitric Acid	<2	_____	_____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>

CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MSA Surface Water

Report Number: 240-99625-1

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 8/8/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.8° C, 2.0° C and 5.2° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples MSA-SW37A-080718 (240-99625-1), MSA-SW37B-080718 (240-99625-2), MSA-SW37C-080718 (240-99625-3), MSA-SW37D-080718 (240-99625-4), MSA-SW38A-080718 (240-99625-5), MSA-SW38B-080718 (240-99625-6), MSA-SW38C-080718 (240-99625-7), MSA-SW38D-080718 (240-99625-8), MSA-SW39A-080718 (240-99625-9), MSA-SW39B-080718 (240-99625-10), MSA-SW39C-080718 (240-99625-11), MSA-SW39D-080718 (240-99625-12), MSA-SW40A-080718 (240-99625-13), MSA-SW40B-080718 (240-99625-14), MSA-SW40C-080718 (240-99625-15), MSA-SW40D-080718 (240-99625-16), MSA-SW41A-080718 (240-99625-17), MSA-SW41B-080718 (240-99625-18), MSA-SW41C-080718 (240-99625-19), MSA-SW41D-080718 (240-99625-20), MSA-SW42A-080718 (240-99625-21), MSA-SW42B-080718 (240-99625-22), MSA-SW42C-080718 (240-99625-23), MSA-SW42D-080718 (240-99625-24), MSA-SW43A-080718 (240-99625-25), MSA-SW43B-080718 (240-99625-26), MSA-SW43C-080718 (240-99625-27), MSA-SW43D-080718 (240-99625-28), MSA-SW44A-080718 (240-99625-29), MSA-SW44B-080718 (240-99625-30), MSA-SW44C-080718 (240-99625-31), MSA-SW44D-080718 (240-99625-32), MSA-SW45A-080718 (240-99625-33), MSA-SW45B-080718 (240-99625-34), MSA-SW45C-080718 (240-99625-35), MSA-SW45D-080718 (240-99625-36), EL-SW01A-080718 (240-99625-37), EL-SW01B-080718 (240-99625-38), EL-SW01C-080718 (240-99625-39), EL-SW01D-080718 (240-99625-40), TB-080718 (240-99625-41), MSA-SW46A-080718 (240-99625-42), MSA-SW47A-080718 (240-99625-43), MSA-SW48A-080718 (240-99625-44) and MSA-SW49A-080718 (240-99625-45) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 08/12/2018, 08/13/2018 and 08/14/2018.

The continuing calibration verification (CCV) analyzed in batch 240-340454 was outside the method criteria for the following analyte(s): Carbon disulfide, Chloroethane, 1,2,3-Trichlorobenzene, Hexachlorobutadiene and Bromomethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. MSA-SW37A-080718 (240-99625-1), MSA-SW37B-080718 (240-99625-2), MSA-SW37C-080718 (240-99625-3), MSA-SW37D-080718 (240-99625-4) and (CCVIS 240-340454/5)

The continuing calibration verification (CCV) associated with batch 240-340909 recovered above the upper control limit for 2-butanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: EL-SW01B-080718 (240-99625-38), EL-SW01C-080718 (240-99625-39), EL-SW01D-080718 (240-99625-40), TB-080718 (240-99625-41), MSA-SW46A-080718 (240-99625-42), MSA-SW47A-080718 (240-99625-43), MSA-SW48A-080718 (240-99625-44), MSA-SW49A-080718 (240-99625-45) and (CCVIS 240-340909/3).

The following samples were received preserved with hydrochloric acid: MSA-SW37A-080718 (240-99625-1), MSA-SW37B-080718 (240-99625-2), MSA-SW37C-080718 (240-99625-3), MSA-SW37D-080718 (240-99625-4), MSA-SW38A-080718 (240-99625-5), MSA-SW38B-080718 (240-99625-6), MSA-SW38C-080718 (240-99625-7), MSA-SW38D-080718 (240-99625-8), MSA-SW39A-080718 (240-99625-9), MSA-SW39B-080718 (240-99625-10), MSA-SW39C-080718 (240-99625-11), MSA-SW39D-080718 (240-99625-12), MSA-SW40A-080718 (240-99625-13), MSA-SW40B-080718 (240-99625-14), MSA-SW40C-080718 (240-99625-15), MSA-SW40D-080718 (240-99625-16), MSA-SW41A-080718 (240-99625-17), MSA-SW41B-080718 (240-99625-18), MSA-SW41C-080718 (240-99625-19), MSA-SW41D-080718 (240-99625-20), MSA-SW42A-080718 (240-99625-21), MSA-SW42B-080718 (240-99625-22), MSA-SW42C-080718 (240-99625-23), MSA-SW42D-080718 (240-99625-24), MSA-SW43A-080718 (240-99625-25), MSA-SW43B-080718 (240-99625-26), MSA-SW43C-080718 (240-99625-27), MSA-SW43D-080718 (240-99625-28), MSA-SW44A-080718 (240-99625-29), MSA-SW44B-080718 (240-99625-30), MSA-SW44C-080718 (240-99625-31), MSA-SW44D-080718 (240-99625-32), MSA-SW45A-080718 (240-99625-33), MSA-SW45B-080718 (240-99625-34), MSA-SW45C-080718 (240-99625-35), MSA-SW45D-080718 (240-99625-36), EL-SW01A-080718 (240-99625-37), EL-SW01B-080718 (240-99625-38), EL-SW01C-080718 (240-99625-39), EL-SW01D-080718 (240-99625-40), TB-080718 (240-99625-41), MSA-SW46A-080718 (240-99625-42), MSA-SW47A-080718 (240-99625-43), MSA-SW48A-080718 (240-99625-44) and MSA-SW49A-080718 (240-99625-45). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-340666.

The MS/MSD for batch 340909 was not reported because the parent sample was diluted.

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-080718 (240-99625-1), MSA-SW37B-080718 (240-99625-2), MSA-SW37C-080718 (240-99625-3), MSA-SW37D-080718 (240-99625-4), MSA-SW38A-080718 (240-99625-5), MSA-SW38B-080718 (240-99625-6), MSA-SW38C-080718 (240-99625-7), MSA-SW38D-080718 (240-99625-8), MSA-SW39A-080718 (240-99625-9), MSA-SW39B-080718 (240-99625-10), MSA-SW39C-080718 (240-99625-11), MSA-SW39D-080718 (240-99625-12), MSA-SW40A-080718 (240-99625-13), MSA-SW40B-080718 (240-99625-14), MSA-SW40C-080718 (240-99625-15), MSA-SW40D-080718 (240-99625-16), MSA-SW41A-080718 (240-99625-17), MSA-SW41B-080718 (240-99625-18), MSA-SW41C-080718 (240-99625-19), MSA-SW41D-080718 (240-99625-20), MSA-SW42A-080718 (240-99625-21), MSA-SW42B-080718 (240-99625-22), MSA-SW42C-080718 (240-99625-23), MSA-SW42D-080718 (240-99625-24), MSA-SW43A-080718 (240-99625-25), MSA-SW43B-080718 (240-99625-26), MSA-SW43C-080718 (240-99625-27), MSA-SW43D-080718 (240-99625-28), MSA-SW44A-080718 (240-99625-29), MSA-SW44B-080718 (240-99625-30), MSA-SW44C-080718 (240-99625-31), MSA-SW44D-080718 (240-99625-32), MSA-SW45A-080718 (240-99625-33), MSA-SW45B-080718 (240-99625-34), MSA-SW45C-080718 (240-99625-35) and MSA-SW45D-080718 (240-99625-36) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 08/09/2018 and analyzed on 08/17/2018.

Chromium was detected in method blank MB 240-340095/1-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.

Vanadium was detected in method blank MB 240-340095/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Chromium was detected in method blank MB 240-340099/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

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-080718 (240-99625-1), MSA-SW37B-080718 (240-99625-2), MSA-SW37C-080718 (240-99625-3), MSA-SW37D-080718 (240-99625-4), MSA-SW38A-080718 (240-99625-5), MSA-SW38B-080718 (240-99625-6), MSA-SW38C-080718 (240-99625-7), MSA-SW38D-080718 (240-99625-8), MSA-SW39A-080718 (240-99625-9), MSA-SW39B-080718 (240-99625-10), MSA-SW39C-080718 (240-99625-11), MSA-SW39D-080718 (240-99625-12), MSA-SW40A-080718 (240-99625-13), MSA-SW40B-080718 (240-99625-14), MSA-SW40C-080718 (240-99625-15), MSA-SW40D-080718 (240-99625-16), MSA-SW41A-080718 (240-99625-17), MSA-SW41B-080718 (240-99625-18), MSA-SW41C-080718 (240-99625-19), MSA-SW41D-080718 (240-99625-20), MSA-SW42A-080718 (240-99625-21), MSA-SW42B-080718 (240-99625-22), MSA-SW42C-080718 (240-99625-23), MSA-SW42D-080718 (240-99625-24), MSA-SW43A-080718 (240-99625-25), MSA-SW43B-080718 (240-99625-26), MSA-SW43C-080718 (240-99625-27), MSA-SW43D-080718 (240-99625-28), MSA-SW44A-080718 (240-99625-29), MSA-SW44B-080718 (240-99625-30), MSA-SW44C-080718 (240-99625-31), MSA-SW44D-080718 (240-99625-32), MSA-SW45A-080718 (240-99625-33), MSA-SW45B-080718 (240-99625-34), MSA-SW45C-080718 (240-99625-35) and MSA-SW45D-080718 (240-99625-36) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 08/09/2018.

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-080718 (240-99625-1), MSA-SW37B-080718 (240-99625-2), MSA-SW37C-080718 (240-99625-3), MSA-SW37D-080718 (240-99625-4), MSA-SW38A-080718 (240-99625-5), MSA-SW38B-080718 (240-99625-6), MSA-SW38C-080718 (240-99625-7), MSA-SW38D-080718 (240-99625-8), MSA-SW39A-080718 (240-99625-9), MSA-SW39B-080718 (240-99625-10), MSA-SW39C-080718 (240-99625-11), MSA-SW39D-080718 (240-99625-12), MSA-SW40A-080718 (240-99625-13), MSA-SW40B-080718 (240-99625-14), MSA-SW40C-080718 (240-99625-15), MSA-SW40D-080718 (240-99625-16), MSA-SW41A-080718 (240-99625-17), MSA-SW41B-080718 (240-99625-18), MSA-SW41C-080718 (240-99625-19), MSA-SW41D-080718 (240-99625-20), MSA-SW42A-080718 (240-99625-21), MSA-SW42B-080718 (240-99625-22), MSA-SW42C-080718 (240-99625-23), MSA-SW42D-080718 (240-99625-24), MSA-SW43A-080718 (240-99625-25), MSA-SW43B-080718 (240-99625-26), MSA-SW43C-080718 (240-99625-27), MSA-SW43D-080718 (240-99625-28), MSA-SW44A-080718 (240-99625-29), MSA-SW44B-080718 (240-99625-30), MSA-SW44C-080718 (240-99625-31), MSA-SW44D-080718 (240-99625-32), MSA-SW45A-080718 (240-99625-33), MSA-SW45B-080718 (240-99625-34), MSA-SW45C-080718 (240-99625-35) and MSA-SW45D-080718 (240-99625-36) were analyzed for dissolved hardness (as CaCO₃) by calculation in accordance with SM 2340B. The samples were analyzed on 08/20/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

TestAmerica Job ID: 240-99625-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

TestAmerica Job ID: 240-99625-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-99625-1	MSA-SW37A-080718	Water	08/07/18 13:45	08/08/18 09:15
240-99625-2	MSA-SW37B-080718	Water	08/07/18 13:49	08/08/18 09:15
240-99625-3	MSA-SW37C-080718	Water	08/07/18 13:53	08/08/18 09:15
240-99625-4	MSA-SW37D-080718	Water	08/07/18 13:57	08/08/18 09:15
240-99625-5	MSA-SW38A-080718	Water	08/07/18 12:45	08/08/18 09:15
240-99625-6	MSA-SW38B-080718	Water	08/07/18 12:50	08/08/18 09:15
240-99625-7	MSA-SW38C-080718	Water	08/07/18 12:54	08/08/18 09:15
240-99625-8	MSA-SW38D-080718	Water	08/07/18 12:59	08/08/18 09:15
240-99625-9	MSA-SW39A-080718	Water	08/07/18 10:50	08/08/18 09:15
240-99625-10	MSA-SW39B-080718	Water	08/07/18 10:53	08/08/18 09:15
240-99625-11	MSA-SW39C-080718	Water	08/07/18 10:56	08/08/18 09:15
240-99625-12	MSA-SW39D-080718	Water	08/07/18 10:59	08/08/18 09:15
240-99625-13	MSA-SW40A-080718	Water	08/07/18 13:09	08/08/18 09:15
240-99625-14	MSA-SW40B-080718	Water	08/07/18 13:14	08/08/18 09:15
240-99625-15	MSA-SW40C-080718	Water	08/07/18 13:17	08/08/18 09:15
240-99625-16	MSA-SW40D-080718	Water	08/07/18 13:20	08/08/18 09:15
240-99625-17	MSA-SW41A-080718	Water	08/07/18 12:24	08/08/18 09:15
240-99625-18	MSA-SW41B-080718	Water	08/07/18 12:29	08/08/18 09:15
240-99625-19	MSA-SW41C-080718	Water	08/07/18 12:33	08/08/18 09:15
240-99625-20	MSA-SW41D-080718	Water	08/07/18 12:37	08/08/18 09:15
240-99625-21	MSA-SW42A-080718	Water	08/07/18 13:29	08/08/18 09:15
240-99625-22	MSA-SW42B-080718	Water	08/07/18 13:33	08/08/18 09:15
240-99625-23	MSA-SW42C-080718	Water	08/07/18 13:37	08/08/18 09:15
240-99625-24	MSA-SW42D-080718	Water	08/07/18 13:40	08/08/18 09:15
240-99625-25	MSA-SW43A-080718	Water	08/07/18 12:01	08/08/18 09:15
240-99625-26	MSA-SW43B-080718	Water	08/07/18 12:05	08/08/18 09:15
240-99625-27	MSA-SW43C-080718	Water	08/07/18 12:10	08/08/18 09:15
240-99625-28	MSA-SW43D-080718	Water	08/07/18 12:15	08/08/18 09:15
240-99625-29	MSA-SW44A-080718	Water	08/07/18 11:40	08/08/18 09:15
240-99625-30	MSA-SW44B-080718	Water	08/07/18 11:47	08/08/18 09:15
240-99625-31	MSA-SW44C-080718	Water	08/07/18 11:52	08/08/18 09:15
240-99625-32	MSA-SW44D-080718	Water	08/07/18 11:55	08/08/18 09:15
240-99625-33	MSA-SW45A-080718	Water	08/07/18 11:20	08/08/18 09:15
240-99625-34	MSA-SW45B-080718	Water	08/07/18 11:26	08/08/18 09:15
240-99625-35	MSA-SW45C-080718	Water	08/07/18 11:31	08/08/18 09:15
240-99625-36	MSA-SW45D-080718	Water	08/07/18 11:35	08/08/18 09:15
240-99625-37	EL-SW01A-080718	Water	08/07/18 10:25	08/08/18 09:15
240-99625-38	EL-SW01B-080718	Water	08/07/18 10:30	08/08/18 09:15
240-99625-39	EL-SW01C-080718	Water	08/07/18 10:35	08/08/18 09:15
240-99625-40	EL-SW01D-080718	Water	08/07/18 10:40	08/08/18 09:15
240-99625-41	TB-080718	Water	08/07/18 00:00	08/08/18 09:15
240-99625-42	MSA-SW46A-080718	Water	08/07/18 13:24	08/08/18 09:15
240-99625-43	MSA-SW47A-080718	Water	08/07/18 13:04	08/08/18 09:15
240-99625-44	MSA-SW48A-080718	Water	08/07/18 12:40	08/08/18 09:15
240-99625-45	MSA-SW49A-080718	Water	08/07/18 12:20	08/08/18 09:15

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

TestAmerica Job ID: 240-99625-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
SM 2340B	Total Hardness (as CaCO ₃) by calculation	SM	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN
5030C	Purge and Trap	SW846	TAL CAN
7470A	Preparation, Mercury	SW846	TAL CAN

Protocol References:

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

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Quantitation Limit Exceptions Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

TestAmerica Job ID: 240-99625-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Matrix	Analyte	Units	Client RL	Lab PQL
8260C	Water	2-Butanone	ug/L	5.0	10
8260C	Water	2-Hexanone	ug/L	5.0	10
8260C	Water	4-Methyl-2-pentanone	ug/L	5.0	10
8260C	Water	Acetone	ug/L	5.0	10
8260C	Water	Diisopropyl ether	ug/L	5.0	10
8260C	Water	tert-Butyl alcohol	ug/L	20	50
8260C	Water	Vinyl chloride	ug/L	0.50	1

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

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-080718	240-99625-1	112	120	110	108
MSA-SW37B-080718	240-99625-2	114	121	107	107
MSA-SW37C-080718	240-99625-3	108	117	108	107
MSA-SW37D-080718	240-99625-4	106	118	109	104
MSA-SW38A-080718	240-99625-5	108	119	109	108
MSA-SW38B-080718	240-99625-6	113	120	107	107
MSA-SW38C-080718	240-99625-7	108	117	107	107
MSA-SW38D-080718	240-99625-8	113	119	108	109
MSA-SW39A-080718	240-99625-9	113	122	109	106
MSA-SW39B-080718	240-99625-10	107	117	108	106
MSA-SW39C-080718	240-99625-11	109	119	108	108
MSA-SW39D-080718	240-99625-12	109	118	106	106
MSA-SW40A-080718	240-99625-13	107	118	108	105
MSA-SW40B-080718	240-99625-14	110	119	107	108
MSA-SW40C-080718	240-99625-15	112	121	107	107
MSA-SW40D-080718	240-99625-16	110	120	109	105
MSA-SW41A-080718	240-99625-17	113	120	110	107
MSA-SW41B-080718	240-99625-18	102	106	104	99
MSA-SW41C-080718	240-99625-19	97	101	106	98
MSA-SW41D-080718	240-99625-20	103	106	107	100
MSA-SW42A-080718	240-99625-21	102	108	103	98
MSA-SW42B-080718	240-99625-22	100	105	106	98
MSA-SW42C-080718	240-99625-23	102	107	106	101
MSA-SW42D-080718	240-99625-24	101	105	102	94
MSA-SW43A-080718	240-99625-25	101	105	118	100
MSA-SW43B-080718	240-99625-26	106	111	106	101
MSA-SW43C-080718	240-99625-27	98	102	103	94
MSA-SW43D-080718	240-99625-28	103	108	104	96
MSA-SW44A-080718	240-99625-29	99	107	112	105
MSA-SW44B-080718	240-99625-30	103	109	105	97
MSA-SW44C-080718	240-99625-31	101	105	103	96
MSA-SW44D-080718	240-99625-32	104	106	103	97
MSA-SW45A-080718	240-99625-33	98	103	102	93
MSA-SW45B-080718	240-99625-34	104	109	102	99
MSA-SW45C-080718	240-99625-35	103	107	101	96

QC LIMITS

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

69-124
61-138
73-120
69-120

Column to be used to flag recovery values

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MSA-SW45D-080718	240-99625-36	101	101	101	94
EL-SW01A-080718	240-99625-37	97	105	114	96
EL-SW01B-080718	240-99625-38	106	108	103	99
EL-SW01C-080718	240-99625-39	99	101	101	92
EL-SW01D-080718	240-99625-40	101	105	101	95
TB-080718	240-99625-41	102	105	102	96
MSA-SW46A-080718	240-99625-42	100	105	101	91
MSA-SW47A-080718	240-99625-43	105	108	104	100
MSA-SW48A-080718	240-99625-44	98	103	105	98
MSA-SW49A-080718	240-99625-45	103	106	103	96
	MB 240-340454/9	108	116	108	108
	MB 240-340552/9	107	116	107	105
	MB 240-340666/6	100	104	105	99
	MB 240-340909/6	98	102	107	99
	LCS 240-340454/6	108	117	108	108
	LCS 240-340552/6	108	118	108	107
	LCS 240-340666/4	102	100	106	102
	LCS 240-340909/4	104	103	105	99
	240-99379-B-5 MS	105	116	110	108
	240-99379-C-5 MS	112	119	108	112
	240-99379-B-5 MSD	107	114	110	109
	240-99379-C-5 MSD	111	121	108	109

DBFM = Dibromofluoromethane (Surr) DCA = 1,2-Dichloroethane-d4 (Surr) TOL = Toluene-d8 (Surr) BFB = 4-Bromofluorobenzene (Surr)	<u>QC LIMITS</u> 69-124 61-138 73-120 69-120

Column to be used to flag recovery values

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Sample No.: ICIS 240-337853/12 Date Analyzed: 07/25/2018 10:09
 Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): U1265346.D Heated Purge: (Y/N) N
 Calibration ID: 46246

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	1024614	5.10	813061	7.76	484819	9.97
UPPER LIMIT	2049228	5.60	1626122	8.26	969638	10.47
LOWER LIMIT	512307	4.60	406531	7.26	242410	9.47
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 240-337853/25		1011321	5.10	801097	7.76	461006 9.97
ICV 240-337853/28		1018340	5.10	805371	7.76	488062 9.97
CCVIS 240-340454/5		1050162	5.10	796050	7.76	469675 9.97
CCVIS 240-340552/5		1034559	5.10	773884	7.76	450329 9.97

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Sample No.: CCVIS 240-340454/5 Date Analyzed: 08/12/2018 09:56
 Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): U1265845.D Heated Purge: (Y/N) N
 Calibration ID: 46250

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1050162	5.10	796050	7.76	469675	9.97
UPPER LIMIT		2100324	5.60	1592100	8.26	939350	10.47
LOWER LIMIT		525081	4.60	398025	7.26	234838	9.47
LAB SAMPLE ID		CLIENT SAMPLE ID					
CCV 240-340454/4		895056	5.10	634494	7.76	403424	9.97
LCS 240-340454/6		1036962	5.10	769629	7.76	460933	9.97
MB 240-340454/9		994828	5.10	735848	7.76	434880	9.97
240-99625-1	MSA-SW37A-080718	900394	5.10	639384	7.76	394842	9.97
240-99625-2	MSA-SW37B-080718	907540	5.10	656959	7.76	398576	9.97
240-99625-3	MSA-SW37C-080718	948981	5.10	693854	7.76	406065	9.97
240-99625-4	MSA-SW37D-080718	992896	5.10	733855	7.76	422363	9.97
240-99379-B-5 MS		1049012	5.10	782283	7.76	466886	9.97
240-99379-B-5 MSD		1083826	5.10	802207	7.76	498673	9.97

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Sample No.: CCVIS 240-340552/5 Date Analyzed: 08/13/2018 10:26
 Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): U1265876.D Heated Purge: (Y/N) N
 Calibration ID: 46250

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1034559	5.10	773884	7.76	450329	9.97
UPPER LIMIT		2069118	5.60	1547768	8.26	900658	10.47
LOWER LIMIT		517280	4.60	386942	7.26	225165	9.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-340552/6		1059551	5.10	802928	7.76	470828	9.97
MB 240-340552/9		973793	5.10	740378	7.76	421291	9.97
240-99379-C-5 MS		973570	5.10	723254	7.76	468893	9.97
240-99379-C-5 MSD		999066	5.10	739055	7.76	461862	9.97
240-99625-5	MSA-SW38A-080718	984455	5.10	749515	7.76	446718	9.97
240-99625-6	MSA-SW38B-080718	923544	5.10	683857	7.76	422499	9.97
240-99625-7	MSA-SW38C-080718	975445	5.10	739635	7.76	434167	9.97
240-99625-8	MSA-SW38D-080718	922461	5.10	690153	7.76	415527	9.97
240-99625-9	MSA-SW39A-080718	929426	5.10	685839	7.76	409546	9.97
240-99625-10	MSA-SW39B-080718	995342	5.10	753846	7.76	435767	9.97
240-99625-11	MSA-SW39C-080718	955795	5.10	725514	7.76	433720	9.97
240-99625-12	MSA-SW39D-080718	950178	5.10	713559	7.76	421551	9.97
240-99625-13	MSA-SW40A-080718	953953	5.10	722566	7.76	419866	9.97
240-99625-14	MSA-SW40B-080718	918565	5.10	680442	7.76	418028	9.97
240-99625-15	MSA-SW40C-080718	910264	5.10	683817	7.76	420829	9.97
240-99625-16	MSA-SW40D-080718	963621	5.10	713380	7.76	415286	9.97
240-99625-17	MSA-SW41A-080718	907864	5.10	665332	7.76	402120	9.97

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Sample No.: ICIS 240-337766/10 Date Analyzed: 07/24/2018 18:57
 Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): U1900791.d Heated Purge: (Y/N) N
 Calibration ID: 46235

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	929533	5.65	742668	8.50	433286	10.88	
UPPER LIMIT	1859066	6.15	1485336	9.00	866572	11.38	
LOWER LIMIT	464767	5.15	371334	8.00	216643	10.38	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-337766/14		962860	5.65	757050	8.50	434395	10.88
CCVIS 240-340666/3		935516	5.65	717020	8.50	405125	10.88
CCVIS 240-340909/3		949676	5.65	701395	8.50	410636	10.88

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Sample No.: CCVIS 240-340666/3 Date Analyzed: 08/13/2018 17:14
 Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): U1901049.d Heated Purge: (Y/N) N
 Calibration ID: 46243

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		935516	5.65	717020	8.50	405125	10.88
UPPER LIMIT		1871032	6.15	1434040	9.00	810250	11.38
LOWER LIMIT		467758	5.15	358510	8.00	202563	10.38
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-340666/4		975851	5.65	754844	8.50	404370	10.88
MB 240-340666/6		976317	5.65	741869	8.50	399668	10.88
240-99625-18	MSA-SW41B-080718	941439	5.65	702178	8.50	396563	10.88
240-99625-19	MSA-SW41C-080718	948269	5.65	717119	8.50	372871	10.88
240-99625-20	MSA-SW41D-080718	945099	5.65	725275	8.50	328141	10.88
240-99625-21	MSA-SW42A-080718	923259	5.65	701816	8.50	387473	10.88
240-99625-22	MSA-SW42B-080718	946444	5.65	726504	8.50	380791	10.88
240-99625-23	MSA-SW42C-080718	932481	5.65	691844	8.50	383997	10.88
240-99625-24	MSA-SW42D-080718	959690	5.65	750559	8.50	377684	10.88
240-99625-25	MSA-SW43A-080718	933234	5.65	611050	8.50	343321	10.88
240-99625-26	MSA-SW43B-080718	921990	5.65	691993	8.50	374975	10.88
240-99625-27	MSA-SW43C-080718	953819	5.65	738678	8.50	395027	10.88
240-99625-28	MSA-SW43D-080718	920565	5.65	705829	8.50	343368	10.88
240-99625-29	MSA-SW44A-080718	944873	5.65	694442	8.50	393374	10.88
240-99625-30	MSA-SW44B-080718	915716	5.65	691897	8.50	383515	10.88
240-99625-31	MSA-SW44C-080718	936651	5.65	707309	8.50	394244	10.88
240-99625-32	MSA-SW44D-080718	901127	5.65	683426	8.50	371592	10.88
240-99625-33	MSA-SW45A-080718	954880	5.65	739315	8.50	389884	10.88
240-99625-34	MSA-SW45B-080718	905213	5.65	674171	8.50	381779	10.88
240-99625-35	MSA-SW45C-080718	898482	5.65	684561	8.50	388605	10.88
240-99625-36	MSA-SW45D-080718	926091	5.65	701747	8.50	383105	10.88
240-99625-37	EL-SW01A-080718	916577	5.65	597990	8.50	333017	10.88

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Sample No.: CCVIS 240-340909/3 Date Analyzed: 08/14/2018 18:36
 Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): U1901078.d Heated Purge: (Y/N) N
 Calibration ID: 46243

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		949676	5.65	701395	8.50	410636	10.88
UPPER LIMIT		1899352	6.15	1402790	9.00	821272	11.38
LOWER LIMIT		474838	5.15	350698	8.00	205318	10.38
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-340909/4		924650	5.65	701478	8.50	404692	10.88
MB 240-340909/6		965841	5.65	714250	8.50	386425	10.88
240-99625-38	EL-SW01B-080718	915362	5.65	695839	8.50	364031	10.88
240-99625-39	EL-SW01C-080718	918457	5.65	698122	8.50	361840	10.88
240-99625-40	EL-SW01D-080718	916837	5.65	691958	8.50	381912	10.88
240-99625-41	TB-080718	902485	5.65	695264	8.50	387617	10.88
240-99625-42	MSA-SW46A-080718	894585	5.65	678354	8.50	364758	10.88
240-99625-43	MSA-SW47A-080718	923279	5.65	703355	8.50	398355	10.88
240-99625-44	MSA-SW48A-080718	939904	5.65	732229	8.50	386922	10.88
240-99625-45	MSA-SW49A-080718	919807	5.65	692968	8.50	385433	10.88

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Lab File ID: U1265849.D Lab Sample ID: MB 240-340454/9
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: A3UX12 Date Analyzed: 08/12/2018 11:24
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 240-340454/6	U1265846.D	08/12/2018 10:18
MSA-SW37A-080718	240-99625-1	U1265866.D	08/12/2018 17:38
MSA-SW37B-080718	240-99625-2	U1265867.D	08/12/2018 18:00
MSA-SW37C-080718	240-99625-3	U1265868.D	08/12/2018 18:22
MSA-SW37D-080718	240-99625-4	U1265869a.D	08/12/2018 18:44

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-340454/9

Matrix: Water Lab File ID: U1265849.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 11:24

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.: 340454 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-340454/9

Matrix: Water Lab File ID: U1265849.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 11:24

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.: 340454 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-340454/9
 Matrix: Water Lab File ID: U1265849.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 11:24
 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.: 340454 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		61-138
460-00-4	4-Bromofluorobenzene (Surr)	108		69-120
2037-26-5	Toluene-d8 (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-340454/9
Matrix: Water Lab File ID: U1265849.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 11:24
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.: 340454 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-340454/9
Matrix: Water Lab File ID: U1265849.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/12/2018 11:24
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.: 340454 Units: ug/L

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

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: U1265846.D
 Lab ID: LCS 240-340454/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	18.8	94	73-136	
1,1,1-Trichloroethane	20.0	17.8	89	64-147	
1,1,2,2-Tetrachloroethane	20.0	19.8	99	58-122	
1,1,2-Trichloro-1,2,2-trichflu oroethane	20.0	16.4	82	65-144	
1,1-Dichloroethane	20.0	18.8	94	74-120	
1,1-Dichloroethene	20.0	18.4	92	65-127	
1,1-Dichloropropene	20.0	17.6	88	80-122	
1,2,3-Trichlorobenzene	20.0	16.6	83	31-144	
1,2,3-Trichloropropane	20.0	19.2	96	53-134	
1,2,4-Trichlorobenzene	20.0	16.1	81	34-141	
1,2,4-Trimethylbenzene	20.0	17.9	90	80-120	
1,2-Dibromo-3-Chloropropane	20.0	18.3	92	50-130	
1,2-Dichlorobenzene	20.0	17.8	89	80-120	
1,2-Dichloroethane	20.0	18.8	94	68-133	
1,2-Dichloropropane	20.0	18.2	91	78-127	
1,3-Dichlorobenzene	20.0	18.1	91	80-120	
1,3-Dichloropropane	20.0	18.5	92	71-124	
1,4-Dichlorobenzene	20.0	17.7	89	80-120	
2,2-Dichloropropane	20.0	17.6	88	32-178	
2-Chloroethyl vinyl ether	20.0	18.1	90	58-123	
2-Chlorotoluene	20.0	18.4	92	80-120	
2-Hexanone	40.0	41.5	104	28-169	
Bromobenzene	20.0	19.1	95	73-120	
Bromochloromethane	20.0	17.9	89	78-120	
4-Chlorotoluene	20.0	18.3	92	79-120	
p-Isopropyltoluene	20.0	18.7	94	78-125	
Acetone	40.0	40.6	102	35-131	
Benzene	20.0	17.9	90	79-120	
Bromoform	20.0	17.9	90	55-145	
Bromomethane	20.0	15.5	77	17-158	
Carbon disulfide	20.0	16.4	82	49-141	
Carbon tetrachloride	20.0	16.9	85	55-171	
Chlorobenzene	20.0	17.6	88	80-120	
Chloroethane	20.0	16.3	82	10-149	
Chloroform	20.0	18.3	91	80-120	
Chloromethane	20.0	16.3	82	59-124	
cis-1,2-Dichloroethene	20.0	17.5	87	77-120	
cis-1,3-Dichloropropene	20.0	18.5	93	75-120	
Hexachlorobutadiene	20.0	16.3	82	36-146	
Dibromomethane	20.0	17.3	87	80-120	
Bromodichloromethane	20.0	18.3	91	79-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: U1265846.D
 Lab ID: LCS 240-340454/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	20.0	14.3	71	42-141	
Ethylbenzene	20.0	17.9	89	80-120	
1,2-Dibromoethane	20.0	18.3	92	80-120	
Naphthalene	20.0	16.2	81	31-127	
m-Xylene & p-Xylene	20.0	17.3	86	80-120	
n-Butylbenzene	20.0	18.1	90	60-137	
Isopropylbenzene	20.0	18.2	91	80-128	
n-Propylbenzene	20.0	17.9	89	76-120	
2-Butanone	40.0	40.1	100	43-149	
4-Methyl-2-pentanone	40.0	38.6	96	53-144	
sec-Butylbenzene	20.0	18.3	91	76-124	
Methyl tert-butyl ether	20.0	18.7	93	73-120	
Methylene Chloride	20.0	17.3	86	64-140	
o-Xylene	20.0	18.4	92	80-120	
Styrene	20.0	18.7	93	80-121	
tert-Butylbenzene	20.0	18.0	90	79-120	
Tetrachloroethene	20.0	17.4	87	80-122	
Toluene	20.0	18.3	92	78-120	
trans-1,2-Dichloroethene	20.0	18.1	90	74-124	
trans-1,3-Dichloropropene	20.0	18.4	92	67-120	
Trichloroethene	20.0	16.9	85	76-124	
Trichlorofluoromethane	20.0	16.2	81	27-176	
Vinyl acetate	20.0	25.1	126	42-141	
Vinyl chloride	20.0	17.4	87	65-124	
tert-Butyl alcohol	200	210	105	52-136	
Xylenes, Total	40.0	35.7	89	80-120	
Dibromochloromethane	20.0	18.4	92	64-129	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab File ID: U1265880.D Lab Sample ID: MB 240-340552/9
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX12 Date Analyzed: 08/13/2018 11:53
 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 240-340552/6	U1265877.D	08/13/2018 10:48
MSA-SW38A-080718	240-99625-5	U1265890.D	08/13/2018 16:03
MSA-SW38B-080718	240-99625-6	U1265891.D	08/13/2018 16:25
MSA-SW38C-080718	240-99625-7	U1265892.D	08/13/2018 16:47
MSA-SW38D-080718	240-99625-8	U1265893.D	08/13/2018 17:10
MSA-SW39A-080718	240-99625-9	U1265894.D	08/13/2018 17:32
MSA-SW39B-080718	240-99625-10	U1265895.D	08/13/2018 17:54
MSA-SW39C-080718	240-99625-11	U1265896.D	08/13/2018 18:16
MSA-SW39D-080718	240-99625-12	U1265897.D	08/13/2018 18:39
MSA-SW40A-080718	240-99625-13	U1265898.D	08/13/2018 19:00
MSA-SW40B-080718	240-99625-14	U1265899.D	08/13/2018 19:22
MSA-SW40C-080718	240-99625-15	U1265900.D	08/13/2018 19:45
MSA-SW40D-080718	240-99625-16	U1265901.D	08/13/2018 20:07
MSA-SW41A-080718	240-99625-17	U1265902.D	08/13/2018 20:29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-340552/9

Matrix: Water Lab File ID: U1265880.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 11:53

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.: 340552 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-340552/9

Matrix: Water Lab File ID: U1265880.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 11:53

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.: 340552 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-340552/9
 Matrix: Water Lab File ID: U1265880.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 11:53
 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.: 340552 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		61-138
460-00-4	4-Bromofluorobenzene (Surr)	105		69-120
2037-26-5	Toluene-d8 (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-340552/9
Matrix: Water Lab File ID: U1265880.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 11:53
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.: 340552 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-340552/9
Matrix: Water Lab File ID: U1265880.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 11:53
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.: 340552 Units: ug/L

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

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: U1265877.D
 Lab ID: LCS 240-340552/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	19.5	98	73-136	
1,1,1-Trichloroethane	20.0	19.3	97	64-147	
1,1,2,2-Tetrachloroethane	20.0	20.7	103	58-122	
1,1,2-Trichloro-1,2,2-trichflu oroethane	20.0	18.2	91	65-144	
1,1-Dichloroethane	20.0	19.7	99	74-120	
1,1-Dichloroethene	20.0	20.0	100	65-127	
1,1-Dichloropropene	20.0	19.1	96	80-122	
1,2,3-Trichlorobenzene	20.0	16.9	85	31-144	
1,2,3-Trichloropropane	20.0	20.2	101	53-134	
1,2,4-Trichlorobenzene	20.0	16.7	83	34-141	
1,2,4-Trimethylbenzene	20.0	19.3	96	80-120	
1,2-Dibromo-3-Chloropropane	20.0	18.0	90	50-130	
1,2-Dichlorobenzene	20.0	18.4	92	80-120	
1,2-Dichloroethane	20.0	19.4	97	68-133	
1,2-Dichloropropane	20.0	19.3	96	78-127	
1,3-Dichlorobenzene	20.0	18.9	94	80-120	
1,3-Dichloropropane	20.0	19.6	98	71-124	
1,4-Dichlorobenzene	20.0	18.8	94	80-120	
2,2-Dichloropropane	20.0	20.1	100	32-178	
2-Chloroethyl vinyl ether	20.0	19.5	97	58-123	
2-Chlorotoluene	20.0	19.5	97	80-120	
2-Hexanone	40.0	42.9	107	28-169	
Bromobenzene	20.0	19.8	99	73-120	
Bromochloromethane	20.0	18.8	94	78-120	
4-Chlorotoluene	20.0	19.6	98	79-120	
p-Isopropyltoluene	20.0	20.5	102	78-125	
Acetone	40.0	40.1	100	35-131	
Benzene	20.0	19.1	95	79-120	
Bromoform	20.0	18.3	92	55-145	
Bromomethane	20.0	16.9	85	17-158	
Carbon disulfide	20.0	17.8	89	49-141	
Carbon tetrachloride	20.0	18.4	92	55-171	
Chlorobenzene	20.0	18.8	94	80-120	
Chloroethane	20.0	18.3	91	10-149	
Chloroform	20.0	19.1	96	80-120	
Chloromethane	20.0	19.2	96	59-124	
cis-1,2-Dichloroethene	20.0	18.3	92	77-120	
cis-1,3-Dichloropropene	20.0	19.8	99	75-120	
Hexachlorobutadiene	20.0	17.4	87	36-146	
Dibromomethane	20.0	18.2	91	80-120	
Bromodichloromethane	20.0	19.0	95	79-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: U1265877.D
 Lab ID: LCS 240-340552/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	20.0	19.5	98	42-141	
Ethylbenzene	20.0	19.2	96	80-120	
1,2-Dibromoethane	20.0	19.1	96	80-120	
Naphthalene	20.0	16.0	80	31-127	
m-Xylene & p-Xylene	20.0	18.6	93	80-120	
n-Butylbenzene	20.0	19.7	99	60-137	
Isopropylbenzene	20.0	19.7	98	80-128	
n-Propylbenzene	20.0	19.8	99	76-120	
2-Butanone	40.0	40.7	102	43-149	
4-Methyl-2-pentanone	40.0	40.6	102	53-144	
sec-Butylbenzene	20.0	20.5	102	76-124	
Methyl tert-butyl ether	20.0	19.2	96	73-120	
Methylene Chloride	20.0	18.4	92	64-140	
o-Xylene	20.0	19.3	97	80-120	
Styrene	20.0	19.9	99	80-121	
tert-Butylbenzene	20.0	19.8	99	79-120	
Tetrachloroethene	20.0	19.0	95	80-122	
Toluene	20.0	19.5	97	78-120	
trans-1,2-Dichloroethene	20.0	19.4	97	74-124	
trans-1,3-Dichloropropene	20.0	19.1	95	67-120	
Trichloroethene	20.0	18.2	91	76-124	
Trichlorofluoromethane	20.0	18.6	93	27-176	
Vinyl acetate	20.0	25.7	128	42-141	
Vinyl chloride	20.0	20.7	103	65-124	
tert-Butyl alcohol	200	205	103	52-136	
Xylenes, Total	40.0	37.9	95	80-120	
Dibromochloromethane	20.0	19.1	95	64-129	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab File ID: U1901052.d Lab Sample ID: MB 240-340666/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: A3UX19 Date Analyzed: 08/13/2018 18:21
 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 240-340666/4	U1901050.d	08/13/2018 17:36
MSA-SW41B-080718	240-99625-18	U1901053.d	08/13/2018 18:43
MSA-SW41C-080718	240-99625-19	U1901054.d	08/13/2018 19:05
MSA-SW41D-080718	240-99625-20	U1901055.d	08/13/2018 19:27
MSA-SW42A-080718	240-99625-21	U1901056.d	08/13/2018 19:50
MSA-SW42B-080718	240-99625-22	U1901057.d	08/13/2018 20:12
MSA-SW42C-080718	240-99625-23	U1901058.d	08/13/2018 20:34
MSA-SW42D-080718	240-99625-24	U1901059.d	08/13/2018 20:57
MSA-SW43A-080718	240-99625-25	U1901060.d	08/13/2018 21:19
MSA-SW43B-080718	240-99625-26	U1901061.d	08/13/2018 21:41
MSA-SW43C-080718	240-99625-27	U1901062.d	08/13/2018 22:03
MSA-SW43D-080718	240-99625-28	U1901063.d	08/13/2018 22:26
MSA-SW44A-080718	240-99625-29	U1901064.d	08/13/2018 22:48
MSA-SW44B-080718	240-99625-30	U1901065.d	08/13/2018 23:10
MSA-SW44C-080718	240-99625-31	U1901066.d	08/13/2018 23:32
MSA-SW44D-080718	240-99625-32	U1901067.d	08/13/2018 23:54
MSA-SW45A-080718	240-99625-33	U1901068.d	08/14/2018 00:16
MSA-SW45B-080718	240-99625-34	U1901069.d	08/14/2018 00:39
MSA-SW45C-080718	240-99625-35	U1901070.d	08/14/2018 01:01
MSA-SW45D-080718	240-99625-36	U1901071.d	08/14/2018 01:23
EL-SW01A-080718	240-99625-37	U1901072.d	08/14/2018 01:45

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-340666/6

Matrix: Water Lab File ID: U1901052.d

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:21

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.: 340666 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-340666/6

Matrix: Water Lab File ID: U1901052.d

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 08/13/2018 18:21

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.: 340666 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-340666/6
 Matrix: Water Lab File ID: U1901052.d
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:21
 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.: 340666 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		61-138
460-00-4	4-Bromofluorobenzene (Surr)	99		69-120
2037-26-5	Toluene-d8 (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-340666/6
Matrix: Water Lab File ID: U1901052.d
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:21
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.: 340666 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-340666/6
Matrix: Water Lab File ID: U1901052.d
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/13/2018 18:21
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.: 340666 Units: ug/L

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

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: U1901050.d
 Lab ID: LCS 240-340666/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	19.9	100	73-136	
1,1,1-Trichloroethane	20.0	18.6	93	64-147	
1,1,2,2-Tetrachloroethane	20.0	20.3	101	58-122	
1,1,2-Trichloro-1,2,2-trichflu oroethane	20.0	18.7	93	65-144	
1,1-Dichloroethane	20.0	18.3	92	74-120	
1,1-Dichloroethene	20.0	18.5	92	65-127	
1,1-Dichloropropene	20.0	18.5	92	80-122	
1,2,3-Trichlorobenzene	20.0	17.5	88	31-144	
1,2,3-Trichloropropane	20.0	20.8	104	53-134	
1,2,4-Trichlorobenzene	20.0	17.5	88	34-141	
1,2,4-Trimethylbenzene	20.0	19.5	97	80-120	
1,2-Dibromo-3-Chloropropane	20.0	20.1	101	50-130	
1,2-Dichlorobenzene	20.0	19.0	95	80-120	
1,2-Dichloroethane	20.0	18.1	90	68-133	
1,2-Dichloropropane	20.0	19.8	99	78-127	
1,3-Dichlorobenzene	20.0	19.1	95	80-120	
1,3-Dichloropropane	20.0	19.7	98	71-124	
1,4-Dichlorobenzene	20.0	18.8	94	80-120	
2,2-Dichloropropane	20.0	16.5	82	32-178	
2-Chloroethyl vinyl ether	20.0	21.1	106	58-123	
2-Chlorotoluene	20.0	20.1	101	80-120	
2-Hexanone	40.0	44.5	111	28-169	
Bromobenzene	20.0	20.7	104	73-120	
Bromochloromethane	20.0	17.8	89	78-120	
4-Chlorotoluene	20.0	20.4	102	79-120	
p-Isopropyltoluene	20.0	20.0	100	78-125	
Acetone	40.0	39.8	99	35-131	
Benzene	20.0	18.8	94	79-120	
Bromoform	20.0	20.2	101	55-145	
Bromomethane	20.0	16.9	84	17-158	
Carbon disulfide	20.0	16.6	83	49-141	
Carbon tetrachloride	20.0	18.0	90	55-171	
Chlorobenzene	20.0	19.3	97	80-120	
Chloroethane	20.0	17.6	88	10-149	
Chloroform	20.0	18.3	91	80-120	
Chloromethane	20.0	15.7	79	59-124	
cis-1,2-Dichloroethene	20.0	18.1	91	77-120	
cis-1,3-Dichloropropene	20.0	20.2	101	75-120	
Hexachlorobutadiene	20.0	17.9	89	36-146	
Dibromomethane	20.0	19.6	98	80-120	
Bromodichloromethane	20.0	18.9	95	79-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: U1901050.d
 Lab ID: LCS 240-340666/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	20.0	17.0	85	42-141	
Ethylbenzene	20.0	19.7	99	80-120	
1,2-Dibromoethane	20.0	20.2	101	80-120	
Naphthalene	20.0	17.9	90	31-127	
m-Xylene & p-Xylene	20.0	19.5	98	80-120	
n-Butylbenzene	20.0	18.8	94	60-137	
Isopropylbenzene	20.0	19.2	96	80-128	
n-Propylbenzene	20.0	20.9	105	76-120	
2-Butanone	40.0	46.3	116	43-149	
4-Methyl-2-pentanone	40.0	40.6	102	53-144	
sec-Butylbenzene	20.0	19.9	99	76-124	
Methyl tert-butyl ether	20.0	18.6	93	73-120	
Methylene Chloride	20.0	17.8	89	64-140	
o-Xylene	20.0	19.4	97	80-120	
Styrene	20.0	19.3	96	80-121	
tert-Butylbenzene	20.0	20.4	102	79-120	
Tetrachloroethene	20.0	20.2	101	80-122	
Toluene	20.0	19.4	97	78-120	
trans-1,2-Dichloroethene	20.0	17.9	89	74-124	
trans-1,3-Dichloropropene	20.0	19.1	96	67-120	
Trichloroethene	20.0	19.4	97	76-124	
Trichlorofluoromethane	20.0	19.2	96	27-176	
Vinyl acetate	20.0	24.2	121	42-141	
Vinyl chloride	20.0	17.6	88	65-124	
tert-Butyl alcohol	200	213	107	52-136	
Xylenes, Total	40.0	38.9	97	80-120	
Dibromochloromethane	20.0	20.7	104	64-129	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Lab File ID: U1901081.d Lab Sample ID: MB 240-340909/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: A3UX19 Date Analyzed: 08/14/2018 19:42
GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-340909/4	U1901079.d	08/14/2018 18:58
EL-SW01B-080718	240-99625-38	U1901082.d	08/14/2018 20:04
EL-SW01C-080718	240-99625-39	U1901083.d	08/14/2018 20:26
EL-SW01D-080718	240-99625-40	U1901084.d	08/14/2018 20:48
TB-080718	240-99625-41	U1901085.d	08/14/2018 21:10
MSA-SW46A-080718	240-99625-42	U1901086.d	08/14/2018 21:33
MSA-SW47A-080718	240-99625-43	U1901087.d	08/14/2018 21:55
MSA-SW48A-080718	240-99625-44	U1901088.d	08/14/2018 22:17
MSA-SW49A-080718	240-99625-45	U1901089.d	08/14/2018 22:39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-340909/6

Matrix: Water Lab File ID: U1901081.d

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 19:42

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.: 340909 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 240-340909/6</u>
Matrix: <u>Water</u>	Lab File ID: <u>U1901081.d</u>
Analysis Method: <u>8260C</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/14/2018 19:42</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>340909</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-340909/6
 Matrix: Water Lab File ID: U1901081.d
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 19:42
 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.: 340909 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		61-138
460-00-4	4-Bromofluorobenzene (Surr)	99		69-120
2037-26-5	Toluene-d8 (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		69-124

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-340909/6
Matrix: Water Lab File ID: U1901081.d
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 19:42
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.: 340909 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

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

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 240-340909/6
Matrix: Water Lab File ID: U1901081.d
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/14/2018 19:42
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.: 340909 Units: ug/L

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

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: U1901079.d
 Lab ID: LCS 240-340909/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	20.7	104	73-136	
1,1,1-Trichloroethane	20.0	19.8	99	64-147	
1,1,2,2-Tetrachloroethane	20.0	19.8	99	58-122	
1,1,2-Trichloro-1,2,2-trichflu oroethane	20.0	20.5	102	65-144	
1,1-Dichloroethane	20.0	19.4	97	74-120	
1,1-Dichloroethene	20.0	19.5	97	65-127	
1,1-Dichloropropene	20.0	19.3	96	80-122	
1,2,3-Trichlorobenzene	20.0	18.6	93	31-144	
1,2,3-Trichloropropane	20.0	20.1	101	53-134	
1,2,4-Trichlorobenzene	20.0	18.5	93	34-141	
1,2,4-Trimethylbenzene	20.0	19.7	98	80-120	
1,2-Dibromo-3-Chloropropane	20.0	20.0	100	50-130	
1,2-Dichlorobenzene	20.0	19.4	97	80-120	
1,2-Dichloroethane	20.0	19.1	95	68-133	
1,2-Dichloropropane	20.0	20.3	101	78-127	
1,3-Dichlorobenzene	20.0	19.0	95	80-120	
1,3-Dichloropropane	20.0	19.6	98	71-124	
1,4-Dichlorobenzene	20.0	18.6	93	80-120	
2,2-Dichloropropane	20.0	19.9	99	32-178	
2-Chloroethyl vinyl ether	20.0	20.0	100	58-123	
2-Chlorotoluene	20.0	20.0	100	80-120	
2-Hexanone	40.0	44.1	110	28-169	
Bromobenzene	20.0	20.0	100	73-120	
Bromochloromethane	20.0	19.3	96	78-120	
4-Chlorotoluene	20.0	19.8	99	79-120	
p-Isopropyltoluene	20.0	20.6	103	78-125	
Acetone	40.0	47.6	119	35-131	
Benzene	20.0	19.6	98	79-120	
Bromoform	20.0	20.1	100	55-145	
Bromomethane	20.0	18.0	90	17-158	
Carbon disulfide	20.0	18.1	91	49-141	
Carbon tetrachloride	20.0	19.5	97	55-171	
Chlorobenzene	20.0	19.6	98	80-120	
Chloroethane	20.0	18.5	93	10-149	
Chloroform	20.0	19.5	98	80-120	
Chloromethane	20.0	17.2	86	59-124	
cis-1,2-Dichloroethene	20.0	19.6	98	77-120	
cis-1,3-Dichloropropene	20.0	20.3	101	75-120	
Hexachlorobutadiene	20.0	19.7	98	36-146	
Dibromomethane	20.0	20.3	102	80-120	
Bromodichloromethane	20.0	19.3	97	79-125	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: U1901079.d
 Lab ID: LCS 240-340909/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	20.0	18.3	91	42-141	
Ethylbenzene	20.0	20.2	101	80-120	
1,2-Dibromoethane	20.0	19.9	100	80-120	
Naphthalene	20.0	18.8	94	31-127	
m-Xylene & p-Xylene	20.0	20.4	102	80-120	
n-Butylbenzene	20.0	19.7	98	60-137	
Isopropylbenzene	20.0	20.6	103	80-128	
n-Propylbenzene	20.0	20.5	103	76-120	
2-Butanone	40.0	50.1	125	43-149	
4-Methyl-2-pentanone	40.0	40.6	101	53-144	
sec-Butylbenzene	20.0	20.4	102	76-124	
Methyl tert-butyl ether	20.0	20.3	101	73-120	
Methylene Chloride	20.0	18.8	94	64-140	
o-Xylene	20.0	20.5	102	80-120	
Styrene	20.0	20.0	100	80-121	
tert-Butylbenzene	20.0	20.4	102	79-120	
Tetrachloroethene	20.0	19.9	100	80-122	
Toluene	20.0	19.8	99	78-120	
trans-1,2-Dichloroethene	20.0	19.0	95	74-124	
trans-1,3-Dichloropropene	20.0	18.8	94	67-120	
Trichloroethene	20.0	20.0	100	76-124	
Trichlorofluoromethane	20.0	19.6	98	27-176	
Vinyl acetate	20.0	23.8	119	42-141	
Vinyl chloride	20.0	18.8	94	65-124	
tert-Butyl alcohol	200	239	119	52-136	
Xylenes, Total	40.0	40.9	102	80-120	
Dibromochloromethane	20.0	19.8	99	64-129	

Column to be used to flag recovery and RPD values

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Lab File ID: BFB3917.D BFB Injection Date: 07/25/2018
Instrument ID: A3UX12 BFB Injection Time: 08:18
Analysis Batch No.: 337853

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.9
75	30.0 - 60.0 % of mass 95	48.1
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	0.4 (0.4) 1
174	50.0 - 120.00 % of mass 95	94.6
175	5.0 - 9.0 % of mass 174	7.7 (8.1) 1
176	95.0 - 101.0 % of mass 174	93.0 (98.3) 1
177	5.0 - 9.0 % of mass 176	6.6 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-337853/9	U1265343.D	07/25/2018	09:02
	STD8260 240-337853/10	U1265344.D	07/25/2018	09:24
	STD8260 240-337853/11	U1265345.D	07/25/2018	09:46
	ICIS 240-337853/12	U1265346.D	07/25/2018	10:09
	STD8260 240-337853/13	U1265347.D	07/25/2018	10:31
	STD8260 240-337853/14	U1265348.D	07/25/2018	10:53
	STD8260 240-337853/15	U1265349.D	07/25/2018	11:15
	STDA9 240-337853/19	U1265353.D	07/25/2018	13:23
	STDA9 240-337853/20	U1265354.D	07/25/2018	13:45
	STDA9 240-337853/21	U1265355.D	07/25/2018	14:07
	STDA9 240-337853/22	U1265356.D	07/25/2018	14:29
	STDA9 240-337853/23	U1265357.D	07/25/2018	14:51
	STDA9 240-337853/24	U1265358.D	07/25/2018	15:13
	ICV 240-337853/25	U1265359.D	07/25/2018	15:36
	ICV 240-337853/28	U1265362.D	07/25/2018	16:42

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1 Analy Batch No.: 337853

SDG No.: _____

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 09:02 Calibration End Date: 07/25/2018 11:15 Calibration ID: 46246

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-337853/15	U1265349.D
Level 2	STD8260 240-337853/14	U1265348.D
Level 3	STD8260 240-337853/13	U1265347.D
Level 4	ICIS 240-337853/12	U1265346.D
Level 5	STD8260 240-337853/11	U1265345.D
Level 6	STD8260 240-337853/10	U1265344.D
Level 7	STD8260 240-337853/9	U1265343.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	0.1318 0.3058	0.1677 0.3000	0.2383	0.2785	0.3144	Lin1	-0.118	0.3023			0.1000	13.2			0.9970		0.9900
Chloromethane	++++ 0.3228	0.3126 0.3065	0.3192	0.3366	0.3251	Ave		0.3205			0.1000	3.3		20.0			
Butadiene	++++ 0.2370	0.1680 0.2310	0.2152	0.2382	0.2434	Ave		0.2221				12.7		20.0			
Vinyl chloride	0.2035 0.2642	0.2078 0.2527	0.2599	0.2743	0.2717	Ave		0.2477			0.1000	12.0		20.0			
Bromomethane	++++ 0.2847	0.2049 0.2955	0.2369	0.2514	0.2651	Ave		0.2564			0.0500	12.9		20.0			
Chloroethane	++++ 0.2129	0.1604 0.2212	0.1839	0.1970	0.2032	Ave		0.1964			0.0500	11.1		20.0			
Dichlorofluoromethane	0.3418 0.4701	0.3761 0.4816	0.4319	0.4645	0.4645	Ave		0.4329				12.4		20.0			
Trichlorofluoromethane	++++ 0.5229	0.3582 0.5476	0.4258	0.4771	0.5118	Ave		0.4739			0.1000	14.9		20.0			
Ethyl ether	0.1740 0.1922	0.1747 0.1942	0.1875	0.1798	0.1918	Ave		0.1849				4.6		20.0			
Acrolein	0.0424 0.0489	0.0442 0.0480	0.0464	0.0496	0.0489	Ave		0.0469				5.8		20.0			
1,1-Dichloroethene	0.2744 0.3225	0.2810 0.3225	0.3064	0.3064	0.3269	Ave		0.3057			0.1000	6.8		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1383 0.2530	0.1487 0.2581	0.2254	0.2148	0.2552	Lin1	-0.085	0.2525			0.0500	12.6			0.9970		0.9900
Acetone	0.1595 0.0835	0.1252 0.0826	0.0878	0.0871	0.0880	Lin1	0.0802	0.0836			0.0100	3.2			0.9990		0.9900
Iodomethane	0.3625 0.4368	0.4173 0.4248	0.4405	0.4214	0.4475	Ave		0.4215				6.7		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.: 240-99625-1 Analy Batch No.: 337853
SDG No.: _____
Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/25/2018 09:02 Calibration End Date: 07/25/2018 11:15 Calibration ID: 46246

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	0.7564 0.6472	0.7266 0.6240	0.6368	0.6302	0.6605	Ave		0.6688			0.1000	7.7		20.0			
3-Chloro-1-propene	0.2783 0.2756	0.2792 0.2667	0.2757	0.2658	0.2814	Ave		0.2747				2.2		20.0			
Methyl acetate	0.1847 0.2001	0.2067 0.1971	0.1974	0.1922	0.2074	Ave		0.1979			0.1000	4.0		20.0			
Methylene Chloride	0.3013 0.2391	0.2470 0.2275	0.2441	0.2345	0.2412	Ave		0.2478			0.1000	9.9		20.0			
tert-Butyl alcohol	0.0385 0.0363	0.0415 0.0360	0.0398	0.0421	0.0411	Ave		0.0393				6.3		20.0			
Acrylonitrile	0.0990 0.0977	0.1028 0.0968	0.0987	0.0966	0.1021	Ave		0.0991				2.5		20.0			
trans-1,2-Dichloroethene	0.2869 0.2922	0.2880 0.2879	0.2851	0.2828	0.2969	Ave		0.2886			0.1000	1.6		20.0			
Methyl tert-butyl ether	0.5823 0.6616	0.6211 0.6497	0.6528	0.6451	0.6725	Ave		0.6407			0.1000	4.7		20.0			
Hexane	0.2105 0.2869	0.2100 0.2950	0.2601	0.2417	0.2911	Ave		0.2565				14.3		20.0			
1,1-Dichloroethane	0.3064 0.3653	0.3447 0.3569	0.3579	0.3555	0.3704	Ave		0.3510			0.2000	6.1		20.0			
Vinyl acetate	0.2418 0.3191	0.2918 0.3066	0.2841	0.2906	0.3155	Ave		0.2928				8.9		20.0			
2,2-Dichloropropane	0.2208 0.2753	0.2367 0.2552	0.2685	0.2724	0.2796	Ave		0.2584				8.5		20.0			
cis-1,2-Dichloroethene	0.2804 0.2853	0.2843 0.2815	0.2899	0.2812	0.2909	Ave		0.2848			0.1000	1.5		20.0			
2-Butanone	++++ 0.0407	0.0350 0.0408	0.0398	0.0392	0.0428	Ave		0.0397			0.0100	6.6		20.0			
Bromochloromethane	0.1800 0.1601	0.1635 0.1563	0.1604	0.1572	0.1622	Ave		0.1628				4.9		20.0			
Tetrahydrofuran	0.0733 0.0807	0.0655 0.0805	0.0786	0.0782	0.0829	Ave		0.0771				7.7		20.0			
Chloroform	0.3629 0.4137	0.3971 0.4085	0.4088	0.3995	0.4212	Ave		0.4017			0.2000	4.7		20.0			
1,1,1-Trichloroethane	0.2798 0.4031	0.3590 0.4040	0.3886	0.3761	0.4101	Ave		0.3744			0.1000	12.1		20.0			
Cyclohexane	++++ 0.3797	0.2576 0.3847	0.3672	0.3363	0.3885	Ave		0.3523			0.1000	14.2		20.0			
1,1-Dichloropropene	0.2808 0.3219	0.3014 0.3159	0.3005	0.3005	0.3278	Ave		0.3070				5.2		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.: 240-99625-1 Analy Batch No.: 337853
SDG No.: _____
Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/25/2018 09:02 Calibration End Date: 07/25/2018 11:15 Calibration ID: 46246

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	0.2889 0.3695	0.2835 0.3666	0.3410	0.3428	0.3730	Ave		0.3379			0.1000	11.1		20.0			
Isobutyl alcohol	0.0087 0.0102	0.0107 0.0102	0.0106	0.0110	0.0110	Ave		0.0103				7.9		20.0			
Benzene	0.8816 0.8899	0.8343 0.8800	0.8677	0.8627	0.8976	Ave		0.8734			0.5000	2.4		20.0			
1,2-Dichloroethane	0.2812 0.2938	0.2915 0.2869	0.2904	0.2775	0.2949	Ave		0.2880			0.1000	2.3		20.0			
n-Heptane	1.2386 0.1464	0.6732 0.1488	0.1783	0.1454	0.1537	Lin1	0.5377	0.1374				11.4			0.9970		0.9900
Trichloroethene	0.2915 0.2946	0.3007 0.2911	0.2798	0.2809	0.2942	Ave		0.2904			0.1500	2.6		20.0			
Methylcyclohexane	0.3072 0.4418	0.3315 0.4407	0.4031	0.3777	0.4378	Ave		0.3914			0.1000	14.0		20.0			
1,2-Dichloropropane	0.1861 0.1844	0.1700 0.1820	0.1741	0.1723	0.1833	Ave		0.1789			0.1000	3.7		20.0			
Dibromomethane	0.1883 0.1870	0.1937 0.1827	0.1875	0.1781	0.1906	Ave		0.1868				2.7		20.0			
1,4-Dioxane	++++ 0.0022	0.0019 0.0023	0.0022	0.0028	0.0020	Ave		0.0022				13.7		20.0			
Bromodichloromethane	0.2485 0.3003	0.2607 0.2952	0.2757	0.2799	0.3016	Ave		0.2803			0.1500	7.3		20.0			
2-Chloroethyl vinyl ether	0.1013 0.1357	0.1134 0.1342	0.1175	0.1236	0.1360	Ave		0.1231				10.7		20.0			
cis-1,3-Dichloropropene	0.2523 0.3296	0.2937 0.3251	0.2940	0.2996	0.3311	Ave		0.3036			0.1500	9.2		20.0			
4-Methyl-2-pentanone	0.1973 0.2419	0.2084 0.2391	0.2279	0.2314	0.2488	Ave		0.2278			0.0500	8.2		20.0			
Toluene	1.1290 1.2505	1.1755 1.2480	1.2081	1.1801	1.2657	Ave		1.2081			0.4000	4.1		20.0			
trans-1,3-Dichloropropene	0.3099 0.3933	0.3604 0.3901	0.3563	0.3558	0.3936	Ave		0.3656			0.1000	8.3		20.0			
Ethyl methacrylate	0.2538 0.3737	0.2961 0.3729	0.3341	0.3453	0.3788	Ave		0.3364				13.9		20.0			
1,1,2-Trichloroethane	0.2041 0.2565	0.2315 0.2570	0.2444	0.2406	0.2570	Ave		0.2416			0.1000	8.0		20.0			
Tetrachloroethene	0.3564 0.3852	0.3737 0.3865	0.3656	0.3613	0.3877	Ave		0.3738			0.1500	3.5		20.0			
1,3-Dichloropropane	0.3621 0.4154	0.4122 0.4122	0.3898	0.3950	0.4205	Ave		0.4010				5.1		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.: 240-99625-1 Analy Batch No.: 337853

SDG No.: _____

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 09:02 Calibration End Date: 07/25/2018 11:15 Calibration ID: 46246

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	0.1843 0.2193	0.2136 0.2193	0.2017	0.2111	0.2268	Ave		0.2109			0.0500	6.7		20.0			
Dibromochloromethane	0.2360 0.3185	0.2593 0.3172	0.2799	0.2918	0.3199	Ave		0.2889				11.3		20.0			
1,2-Dibromoethane	0.2685 0.2912	0.2764 0.2869	0.2696	0.2753	0.2971	Ave		0.2807				3.9		20.0			
Chlorobenzene	0.9226 0.8863	0.8930 0.8763	0.8372	0.8365	0.8856	Ave		0.8768			0.3000	3.5		20.0			
1,1,1,2-Tetrachloroethane	0.2514 0.3404	0.2882 0.3353	0.3240	0.3164	0.3383	Ave		0.3134				10.4		20.0			
Ethylbenzene	0.4302 0.5051	0.4685 0.4986	0.4688	0.4707	0.5085	Ave		0.4786				5.8		20.0			
m-Xylene & p-Xylene	0.6126 0.6262	0.6218 0.6265	0.5969	0.5856	0.6329	Ave		0.6146				2.8		20.0			
o-Xylene	0.4996 0.6147	0.5401 0.6192	0.5824	0.5744	0.6290	Ave		0.5799				8.1		20.0			
Styrene	0.7832 1.0128	0.8321 1.0271	0.8927	0.9461	1.0281	Ave		0.9317			0.3000	10.6		20.0			
Bromoform	++++ 0.2484	0.1933 0.2470	0.2039	0.2203	0.2483	Ave		0.2269			0.1000	10.8		20.0			
Isopropylbenzene	1.3195 1.6061	1.4826 1.5957	1.5592	1.5315	1.6396	Ave		1.5335			0.1000	7.0		20.0			
1,1,2,2-Tetrachloroethane	0.5755 0.6887	0.6139 0.6723	0.6329	0.6447	0.6861	Ave		0.6449			0.3000	6.4		20.0			
Bromobenzene	0.5717 0.7321	0.6378 0.7040	0.6547	0.6633	0.7118	Ave		0.6679				8.1		20.0			
1,2,3-Trichloropropane	0.2583 0.2841	0.2887 0.2784	0.2670	0.2670	0.2823	Ave		0.2751				4.0		20.0			
trans-1,4-Dichloro-2-butene	0.1383 0.1980	0.1637 0.1947	0.1698	0.1839	0.1994	Ave		0.1783				12.6		20.0			
n-Propylbenzene	0.6543 0.8127	0.6890 0.8044	0.7569	0.7451	0.8050	Ave		0.7525				8.2		20.0			
2-Chlorotoluene	0.5184 0.6864	0.6224 0.6628	0.6369	0.6371	0.6859	Ave		0.6357				9.0		20.0			
1,3,5-Trimethylbenzene	1.7823 2.2613	1.9191 2.2014	2.1066	2.1267	2.2664	Ave		2.0948				8.7		20.0			
4-Chlorotoluene	0.6120 0.7067	0.6744 0.6929	0.6417	0.6482	0.7046	Ave		0.6686				5.4		20.0			
tert-Butylbenzene	1.7236 2.1000	1.7714 2.0553	1.9834	1.9679	2.0946	Ave		1.9566				7.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1 Analy Batch No.: 337853
SDG No.: _____
Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/25/2018 09:02 Calibration End Date: 07/25/2018 11:15 Calibration ID: 46246

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	2.0173 2.3070	2.0833 2.2396	2.1979	2.2041	2.3178	Ave		2.1953				5.1		20.0			
sec-Butylbenzene	2.2898 2.8890	2.5802 2.8090	2.7748	2.7730	2.9451	Ave		2.7230				8.2		20.0			
1,3-Dichlorobenzene	1.3530 1.3864	1.3876 1.3365	1.3239	1.2946	1.3751	Ave		1.3510			0.6000	2.6		20.0			
p-Isopropyltoluene	2.0083 2.5863	2.2162 2.5481	2.4747	2.5175	2.6530	Ave		2.4292				9.5		20.0			
1,4-Dichlorobenzene	1.4944 1.4161	1.5210 1.3621	1.3486	1.3256	1.4257	Ave		1.4134			0.5000	5.2		20.0			
n-Butylbenzene	1.7235 2.0696	1.8510 1.9868	1.9868	1.9914	2.1114	Ave		1.9601				6.8		20.0			
1,2-Dichlorobenzene	1.2768 1.2949	1.4432 1.2644	1.2783	1.2550	1.3101	Ave		1.3032			0.4000	4.9		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.2424	0.2055 0.2379	0.2201	0.2324	0.2407	Ave		0.2298			0.0500	6.3		20.0			
1,2,4-Trichlorobenzene	0.8662 0.8259	1.0182 0.7699	0.8216	0.8275	0.8514	Ave		0.8544			0.2000	9.2		20.0			
Hexachlorobutadiene	0.3475 0.3003	0.3758 0.2788	0.2991	0.3036	0.3130	Ave		0.3169				10.5		20.0			
Naphthalene	2.7043 2.5689	2.8477 2.4377	2.6376	2.6463	2.6938	Ave		2.6480				4.8		20.0			
1,2,3-Trichlorobenzene	0.8116 0.7594	0.8834 0.7121	0.7788	0.7681	0.7718	Ave		0.7836				6.8		20.0			
Dibromofluoromethane (Surr)	0.2419 0.2541	0.2445 0.2517	0.2578	0.2387	0.2609	Ave		0.2499				3.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2472 0.2475	0.2560 0.2437	0.2582	0.2357	0.2537	Ave		0.2489				3.1		20.0			
Toluene-d8 (Surr)	1.1038 1.1220	1.0721 1.1163	1.1098	1.0615	1.1328	Ave		1.1026				2.4		20.0			
4-Bromofluorobenzene (Surr)	0.4918 0.4076	0.4119 0.3989	0.4074	0.3875	0.4142	Ave		0.4170				8.2		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.: 240-99625-1 Analy Batch No.: 337853

SDG No.: _____

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 13:23 Calibration End Date: 07/25/2018 15:13 Calibration ID: 46250

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-337853/24	U1265358.D
Level 2	STDA9 240-337853/23	U1265357.D
Level 3	STDA9 240-337853/22	U1265356.D
Level 4	STDA9 240-337853/21	U1265355.D
Level 5	STDA9 240-337853/20	U1265354.D
Level 6	STDA9 240-337853/19	U1265353.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	0.0274 0.0264	0.0273	0.0282	0.0256	0.0297	Ave		0.0274				5.2		20.0			
Diisopropyl ether	0.2019 0.1980	0.1797	0.2125	0.2007	0.2111	Ave		0.2007				5.9		20.0			
2-Chloro-1,3-butadiene	0.2518 0.3026	0.2849	0.3158	0.2990	0.3169	Ave		0.2952				8.2		20.0			
Ethyl-t-butyl ether (ETBE)	0.5939 0.5371	0.5303	0.6063	0.5547	0.5776	Ave		0.5667				5.4		20.0			
Ethyl acetate	0.2100 0.2195	0.1976	0.2148	0.2064	0.2239	Ave		0.2120				4.5		20.0			
Propionitrile	0.0362 0.0394	0.0371	0.0405	0.0383	0.0408	Ave		0.0387				4.8		20.0			
Methacrylonitrile	0.1279 0.1346	0.1281	0.1346	0.1274	0.1388	Ave		0.1319				3.6		20.0			
Tert-amyl-methyl ether (TAME)	0.6512 0.6305	0.6446	0.6893	0.6453	0.6725	Ave		0.6556				3.3		20.0			
n-Butanol	0.0068 0.0115	0.0088	0.0101	0.0103	0.0116	Ave		0.0099				18.5		20.0			
Ethyl acrylate	0.2131 0.2897	0.2289	0.2734	0.2683	0.2895	Ave		0.2605				12.3		20.0			
Methyl methacrylate	0.1417 0.1796	0.1396	0.1741	0.1685	0.1823	Ave		0.1643				11.5		20.0			
2-Nitropropane	++++ 0.0704	0.0390	0.0503	0.0552	0.0666	Ave		0.0563				22.5	*	20.0			
n-Butyl acetate	0.3341 0.4134	0.3602	0.4071	0.3882	0.4261	Ave		0.3882				9.0		20.0			
1-Chlorohexane	0.4312 0.4323	0.3800	0.4246	0.3920	0.4351	Ave		0.4159				5.7		20.0			
Cyclohexanone	0.0119 0.0120	0.0107	0.0111	0.0104	0.0129	Ave		0.0115				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.: 240-99625-1 Analy Batch No.: 337853

SDG No.: _____

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 13:23 Calibration End Date: 07/25/2018 15:13 Calibration ID: 46250

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								
Pentachloroethane	0.2701 0.3989	0.2539	0.3324	0.3361	0.3858	Ave		0.3295				17.8		20.0			
1,2,3-Trimethylbenzene	2.0623 2.3304	2.0760	2.3202	2.1746	2.3951	Ave		2.2264				6.4		20.0			
Benzyl chloride	0.8923 1.5585	0.9333	1.2259	1.2573	1.5070	Lin1	-0.504	1.4968				17.2			0.9940		0.9900
1,3,5-Trichlorobenzene	0.9597 1.0012	0.9798	1.0097	0.9277	1.0365	Ave		0.9858				3.9		20.0			
2-Methylnaphthalene	1.5203 1.5044	1.5808	1.4812	1.3770	1.6326	Ave		1.5160				5.8		20.0			
1-Chloro-1-fluoroethane TIC	0.1931 0.2364	0.2025	0.2498	0.2345	0.2428	Ave		0.2265				10.2		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.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: ICV 240-337853/25 Calibration Date: 07/25/2018 15:36
 Instrument ID: A3UX12 Calib Start Date: 07/25/2018 13:23
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 15:13
 Lab File ID: U1265359.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	0.0274	0.0255		0.186	0.200	-7.2	30.0
Diisopropyl ether	Ave	0.2007	0.1990		0.0198	0.0200	-0.8	30.0
2-Chloro-1,3-butadiene	Ave	0.2952	0.2845		0.0193	0.0200	-3.6	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.5667	0.5468		0.0193	0.0200	-3.5	30.0
Ethyl acetate	Ave	0.2120	0.2030		0.0383	0.0400	-4.3	50.0
Propionitrile	Ave	0.0387	0.0382		0.198	0.200	-1.2	30.0
Methacrylonitrile	Ave	0.1319	0.1272		0.193	0.200	-3.6	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.6556	0.6188		0.0189	0.0200	-5.6	30.0
n-Butanol	Ave	0.0099	0.0095		0.483	0.500	-3.3	30.0
Ethyl acrylate	Ave	0.2605	0.2518		0.0193	0.0200	-3.3	30.0
Methyl methacrylate	Ave	0.1643	0.1643		0.0400	0.0400	0.0	30.0
2-Nitropropane	Ave	0.0563	0.0514		0.0365	0.0400	-8.7	30.0
n-Butyl acetate	Ave	0.3882	0.3854		0.0199	0.0200	-0.7	30.0
1-Chlorohexane	Ave	0.4159	0.4026		0.0194	0.0200	-3.2	30.0
Cyclohexanone	Ave	0.0115	0.0103		0.179	0.200	-10.5	30.0
Pentachloroethane	Ave	0.3295	0.2505		0.0304	0.0400	-24.0	30.0
1,2,3-Trimethylbenzene	Ave	2.226	2.244		0.0202	0.0200	0.8	30.0
Benzyl chloride	Lin1		1.103		0.0151	0.0200	-24.6	30.0
1,3,5-Trichlorobenzene	Ave	0.9858	0.9218		0.0187	0.0200	-6.5	30.0
2-Methylnaphthalene	Ave	1.516	1.289		0.0340	0.0400	-15.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Lab Sample ID: ICV 240-337853/28 Calibration Date: 07/25/2018 16:42

Instrument ID: A3UX12 Calib Start Date: 07/25/2018 09:02

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 11:15

Lab File ID: U1265362.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	Lin1		0.2904	0.1000	0.0196	0.0200	-2.0	30.0
Chloromethane	Ave	0.3205	0.3176	0.1000	0.0198	0.0200	-0.9	30.0
Butadiene	Ave	0.2221	0.2048		0.0184	0.0200	-7.8	30.0
Vinyl chloride	Ave	0.2477	0.2605	0.1000	0.0210	0.0200	5.2	30.0
Bromomethane	Ave	0.2564	0.2407	0.0500	0.0188	0.0200	-6.1	30.0
Chloroethane	Ave	0.1964	0.1813	0.0500	0.0185	0.0200	-7.7	30.0
Dichlorofluoromethane	Ave	0.4329	0.4517		0.0209	0.0200	4.3	30.0
Trichlorofluoromethane	Ave	0.4739	0.4595	0.1000	0.0194	0.0200	-3.0	30.0
Ethyl ether	Ave	0.1849	0.1869		0.0202	0.0200	1.1	30.0
Acrolein	Ave	0.0469	0.0205		0.0438	0.100	-56.2*	50.0
1,1-Dichloroethene	Ave	0.3057	0.3060	0.1000	0.0200	0.0200	0.0	30.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Lin1		0.2029	0.0500	0.0164	0.0200	-18.0	30.0
Acetone	Lin1		0.0826	0.0100	0.0385	0.0400	-3.6	50.0
Iodomethane	Ave	0.4215	0.4176		0.0198	0.0200	-0.9	30.0
Carbon disulfide	Ave	0.6688	0.5857	0.1000	0.0175	0.0200	-12.4	30.0
3-Chloro-1-propene	Ave	0.2747	0.2534		0.0185	0.0200	-7.7	30.0
Methyl acetate	Ave	0.1979	0.1808	0.1000	0.0365	0.0400	-8.7	30.0
Methylene Chloride	Ave	0.2478	0.2250	0.1000	0.0182	0.0200	-9.2	50.0
tert-Butyl alcohol	Ave	0.0393	0.0387		0.197	0.200	-1.7	50.0
Acrylonitrile	Ave	0.0991	0.0941		0.190	0.200	-5.1	30.0
trans-1,2-Dichloroethene	Ave	0.2886	0.2842	0.1000	0.0197	0.0200	-1.5	30.0
Methyl tert-butyl ether	Ave	0.6407	0.6093	0.1000	0.0190	0.0200	-4.9	30.0
Hexane	Ave	0.2565	0.2153		0.0168	0.0200	-16.1	30.0
1,1-Dichloroethane	Ave	0.3510	0.3464	0.2000	0.0197	0.0200	-1.3	30.0
Vinyl acetate	Ave	0.2928	0.3336		0.0228	0.0200	13.9	50.0
2,2-Dichloropropane	Ave	0.2584	0.2491		0.0193	0.0200	-3.6	30.0
cis-1,2-Dichloroethene	Ave	0.2848	0.2724	0.1000	0.0191	0.0200	-4.3	30.0
2-Butanone	Ave	0.0397	0.0388	0.0100	0.0390	0.0400	-2.4	30.0
Bromochloromethane	Ave	0.1628	0.1495		0.0184	0.0200	-8.2	30.0
Tetrahydrofuran	Ave	0.0771	0.0766		0.0398	0.0400	-0.6	30.0
Chloroform	Ave	0.4017	0.3978	0.2000	0.0198	0.0200	-1.0	30.0
1,1,1-Trichloroethane	Ave	0.3744	0.3837	0.1000	0.0205	0.0200	2.5	30.0
Cyclohexane	Ave	0.3523	0.3206	0.1000	0.0182	0.0200	-9.0	30.0
1,1-Dichloropropene	Ave	0.3070	0.3014		0.0196	0.0200	-1.8	30.0
Carbon tetrachloride	Ave	0.3379	0.3341	0.1000	0.0198	0.0200	-1.1	30.0
Isobutyl alcohol	Ave	0.0103	0.0103		0.497	0.500	-0.5	30.0
Benzene	Ave	0.8734	0.8412	0.5000	0.0193	0.0200	-3.7	30.0
1,2-Dichloroethane	Ave	0.2880	0.2794	0.1000	0.0194	0.0200	-3.0	30.0
n-Heptane	Lin1		0.1287		0.0148	0.0200	-25.9	30.0
Trichloroethene	Ave	0.2904	0.2761	0.1500	0.0190	0.0200	-4.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Lab Sample ID: ICV 240-337853/28 Calibration Date: 07/25/2018 16:42

Instrument ID: A3UX12 Calib Start Date: 07/25/2018 09:02

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 11:15

Lab File ID: U1265362.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	0.3914	0.3385	0.1000	0.0173	0.0200	-13.5	30.0
1,2-Dichloropropane	Ave	0.1789	0.1743	0.1000	0.0195	0.0200	-2.5	30.0
Dibromomethane	Ave	0.1868	0.1754		0.0188	0.0200	-6.1	30.0
1,4-Dioxane	Ave	0.0022	0.0022		0.395	0.400	-1.2	50.0
Bromodichloromethane	Ave	0.2803	0.2744	0.1500	0.0196	0.0200	-2.1	30.0
2-Chloroethyl vinyl ether	Ave	0.1231	0.1188		0.0193	0.0200	-3.5	30.0
cis-1,3-Dichloropropene	Ave	0.3036	0.3012	0.1500	0.0198	0.0200	-0.8	30.0
4-Methyl-2-pentanone	Ave	0.2278	0.2289	0.0500	0.0402	0.0400	0.4	30.0
Toluene	Ave	1.208	1.181	0.4000	0.0195	0.0200	-2.3	30.0
trans-1,3-Dichloropropene	Ave	0.3656	0.3459	0.1000	0.0189	0.0200	-5.4	30.0
Ethyl methacrylate	Ave	0.3364	0.3343		0.0199	0.0200	-0.6	30.0
1,1,2-Trichloroethane	Ave	0.2416	0.2467	0.1000	0.0204	0.0200	2.1	30.0
Tetrachloroethene	Ave	0.3738	0.3565	0.1500	0.0191	0.0200	-4.6	30.0
1,3-Dichloropropane	Ave	0.4010	0.3809		0.0190	0.0200	-5.0	30.0
2-Hexanone	Ave	0.2109	0.2071	0.0500	0.0393	0.0400	-1.8	30.0
Dibromochloromethane	Ave	0.2889	0.2850		0.0197	0.0200	-1.4	30.0
1,2-Dibromoethane	Ave	0.2807	0.2674		0.0190	0.0200	-4.8	30.0
Chlorobenzene	Ave	0.8768	0.8311	0.3000	0.0190	0.0200	-5.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3134	0.3137		0.0200	0.0200	0.0	30.0
Ethylbenzene	Ave	0.4786	0.4696		0.0196	0.0200	-1.9	30.0
m-Xylene & p-Xylene	Ave	0.6146	0.5754		0.0187	0.0200	-6.4	30.0
o-Xylene	Ave	0.5799	0.5777		0.0199	0.0200	-0.4	30.0
Styrene	Ave	0.9317	0.9254	0.3000	0.0199	0.0200	-0.7	30.0
Bromoform	Ave	0.2269	0.2143	0.1000	0.0189	0.0200	-5.5	30.0
Isopropylbenzene	Ave	1.533	1.545	0.1000	0.0202	0.0200	0.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6449	0.6234	0.3000	0.0193	0.0200	-3.3	30.0
Bromobenzene	Ave	0.6679	0.6530		0.0196	0.0200	-2.2	30.0
1,2,3-Trichloropropane	Ave	0.2751	0.2657		0.0193	0.0200	-3.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1783	0.1785		0.0200	0.0200	0.1	30.0
n-Propylbenzene	Ave	0.7525	0.7362		0.0196	0.0200	-2.2	30.0
2-Chlorotoluene	Ave	0.6357	0.6395		0.0201	0.0200	0.6	30.0
1,3,5-Trimethylbenzene	Ave	2.095	2.077		0.0198	0.0200	-0.8	30.0
4-Chlorotoluene	Ave	0.6686	0.6474		0.0194	0.0200	-3.2	30.0
tert-Butylbenzene	Ave	1.957	1.937		0.0198	0.0200	-1.0	30.0
1,2,4-Trimethylbenzene	Ave	2.195	2.114		0.0193	0.0200	-3.7	30.0
sec-Butylbenzene	Ave	2.723	2.743		0.0201	0.0200	0.7	30.0
1,3-Dichlorobenzene	Ave	1.351	1.273	0.6000	0.0188	0.0200	-5.8	30.0
p-Isopropyltoluene	Ave	2.429	2.498		0.0206	0.0200	2.8	30.0
1,4-Dichlorobenzene	Ave	1.413	1.317	0.5000	0.0186	0.0200	-6.8	30.0
n-Butylbenzene	Ave	1.960	1.918		0.0196	0.0200	-2.1	30.0
1,2-Dichlorobenzene	Ave	1.303	1.241	0.4000	0.0190	0.0200	-4.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: ICV 240-337853/28 Calibration Date: 07/25/2018 16:42
 Instrument ID: A3UX12 Calib Start Date: 07/25/2018 09:02
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 11:15
 Lab File ID: U1265362.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	0.2298	0.2201	0.0500	0.0192	0.0200	-4.2	50.0
1,2,4-Trichlorobenzene	Ave	0.8544	0.7980	0.2000	0.0187	0.0200	-6.6	50.0
Hexachlorobutadiene	Ave	0.3169	0.2772		0.0175	0.0200	-12.5	30.0
Naphthalene	Ave	2.648	2.531		0.0191	0.0200	-4.4	50.0
1,2,3-Trichlorobenzene	Ave	0.7836	0.7513		0.0192	0.0200	-4.1	30.0
Dibromofluoromethane (Surr)	Ave	0.2499	0.2766		0.0221	0.0200	10.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2489	0.2824		0.0227	0.0200	13.5	30.0
Toluene-d8 (Surr)	Ave	1.103	1.179		0.0214	0.0200	6.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4170	0.4498		0.0216	0.0200	7.9	30.0

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab File ID: BFB3935.D BFB Injection Date: 08/12/2018
 Instrument ID: A3UX12 BFB Injection Time: 09:11
 Analysis Batch No.: 340454

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.7
75	30.0 - 60.0 % of mass 95	49.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	93.9
175	5.0 - 9.0 % of mass 174	6.8 (7.2) 1
176	95.0 - 101.0 % of mass 174	91.3 (97.3) 1
177	5.0 - 9.0 % of mass 176	6.3 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-340454/4	U1265844.D	08/12/2018	09:33
	CCVIS 240-340454/5	U1265845.D	08/12/2018	09:56
	LCS 240-340454/6	U1265846.D	08/12/2018	10:18
	MB 240-340454/9	U1265849.D	08/12/2018	11:24
MSA-SW37A-080718	240-99625-1	U1265866.D	08/12/2018	17:38
MSA-SW37B-080718	240-99625-2	U1265867.D	08/12/2018	18:00
MSA-SW37C-080718	240-99625-3	U1265868.D	08/12/2018	18:22
MSA-SW37D-080718	240-99625-4	U1265869a.D	08/12/2018	18:44

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: CCV 240-340454/4 Calibration Date: 08/12/2018 09:33
 Instrument ID: A3UX12 Calib Start Date: 07/25/2018 13:23
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 15:13
 Lab File ID: U1265844.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	0.0274	0.0314		0.229	0.200	14.3	20.0
Diisopropyl ether	Ave	0.2007	0.1983		0.0198	0.0200	-1.2	20.0
2-Chloro-1,3-butadiene	Ave	0.2952	0.3115		0.0211	0.0200	5.5	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.5667	0.5862		0.0207	0.0200	3.4	20.0
Ethyl acetate	Ave	0.2120	0.1985		0.0374	0.0400	-6.4	50.0
Propionitrile	Ave	0.0387	0.0438		0.226	0.200	13.2	20.0
Methacrylonitrile	Ave	0.1319	0.1367		0.207	0.200	3.7	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.6556	0.6789		0.0207	0.0200	3.6	20.0
n-Butanol	Ave	0.0099	0.0118		0.597	0.500	19.4	20.0
Ethyl acrylate	Ave	0.2605	0.2261		0.0174	0.0200	-13.2	20.0
Methyl methacrylate	Ave	0.1643	0.1508		0.0367	0.0400	-8.2	20.0
2-Nitropropane	Ave	0.0563	0.0538		0.0382	0.0400	-4.4	20.0
n-Butyl acetate	Ave	0.3882	0.4022		0.0207	0.0200	3.6	20.0
1-Chlorohexane	Ave	0.4159	0.4006		0.0193	0.0200	-3.7	20.0
Cyclohexanone	Ave	0.0115	0.0362		0.629	0.200	214.5*	20.0
Pentachloroethane	Ave	0.3295	0.3408		0.0414	0.0400	3.4	20.0
1,2,3-Trimethylbenzene	Ave	2.226	2.155		0.0194	0.0200	-3.2	20.0
Benzyl chloride	Lin1		1.266		0.0173	0.0200	-13.7	20.0
1,3,5-Trichlorobenzene	Ave	0.9858	0.9466		0.0192	0.0200	-4.0	20.0
2-Methylnaphthalene	Ave	1.516	1.326		0.0350	0.0400	-12.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Lab Sample ID: CCVIS 240-340454/5 Calibration Date: 08/12/2018 09:56

Instrument ID: A3UX12 Calib Start Date: 07/25/2018 09:02

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 11:15

Lab File ID: U1265845.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	Lin1		0.2417	0.1000	0.0164	0.0200	-18.1	20.0
Chloromethane	Ave	0.3205	0.2714	0.1000	0.0169	0.0200	-15.3	20.0
Butadiene	Ave	0.2221	0.1935		0.0174	0.0200	-12.9	20.0
Vinyl chloride	Ave	0.2477	0.2156	0.1000	0.0174	0.0200	-13.0	20.0
Bromomethane	Ave	0.2564	0.1918	0.0500	0.0150	0.0200	-25.2*	20.0
Chloroethane	Ave	0.1964	0.1542	0.0500	0.0157	0.0200	-21.5*	20.0
Dichlorofluoromethane	Ave	0.4329	0.3605		0.0167	0.0200	-16.7	20.0
Trichlorofluoromethane	Ave	0.4739	0.3790	0.1000	0.0160	0.0200	-20.0	20.0
Ethyl ether	Ave	0.1849	0.1610		0.0174	0.0200	-12.9	20.0
Acrolein	Ave	0.0469	0.0482		0.103	0.100	2.7	50.0
1,1-Dichloroethene	Ave	0.3057	0.2651	0.1000	0.0173	0.0200	-13.3	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Lin1		0.2038	0.0500	0.0165	0.0200	-17.6	20.0
Acetone	Lin1		0.0873	0.0100	0.0408	0.0400	2.0	50.0
Iodomethane	Ave	0.4215	0.3582		0.0170	0.0200	-15.0	20.0
Carbon disulfide	Ave	0.6688	0.5246	0.1000	0.0157	0.0200	-21.6*	20.0
3-Chloro-1-propene	Ave	0.2747	0.2311		0.0168	0.0200	-15.9	20.0
Methyl acetate	Ave	0.1979	0.1836	0.1000	0.0371	0.0400	-7.2	20.0
Methylene Chloride	Ave	0.2478	0.2076	0.1000	0.0168	0.0200	-16.2	50.0
tert-Butyl alcohol	Ave	0.0393	0.0386		0.197	0.200	-1.7	50.0
Acrylonitrile	Ave	0.0991	0.0913		0.184	0.200	-7.8	20.0
Methyl tert-butyl ether	Ave	0.6407	0.5759	0.1000	0.0180	0.0200	-10.1	20.0
trans-1,2-Dichloroethene	Ave	0.2886	0.2478	0.1000	0.0172	0.0200	-14.1	20.0
Hexane	Ave	0.2565	0.2423		0.0189	0.0200	-5.5	20.0
1,1-Dichloroethane	Ave	0.3510	0.3122	0.2000	0.0178	0.0200	-11.0	20.0
Vinyl acetate	Ave	0.2928	0.2979		0.0203	0.0200	1.7	50.0
2,2-Dichloropropane	Ave	0.2584	0.2222		0.0172	0.0200	-14.0	20.0
cis-1,2-Dichloroethene	Ave	0.2848	0.2352	0.1000	0.0165	0.0200	-17.4	20.0
2-Butanone	Ave	0.0397	0.0397	0.0100	0.0400	0.0400	0.0	20.0
Bromochloromethane	Ave	0.1628	0.1399		0.0172	0.0200	-14.1	20.0
Tetrahydrofuran	Ave	0.0771	0.0757		0.0393	0.0400	-1.9	20.0
Chloroform	Ave	0.4017	0.3493	0.2000	0.0174	0.0200	-13.0	20.0
1,1,1-Trichloroethane	Ave	0.3744	0.3199	0.1000	0.0171	0.0200	-14.5	20.0
Cyclohexane	Ave	0.3523	0.2929	0.1000	0.0166	0.0200	-16.9	20.0
1,1-Dichloropropene	Ave	0.3070	0.2721		0.0177	0.0200	-11.4	20.0
Carbon tetrachloride	Ave	0.3379	0.2844	0.1000	0.0168	0.0200	-15.8	20.0
Isobutyl alcohol	Ave	0.0103	0.0106		0.514	0.500	2.9	20.0
Benzene	Ave	0.8734	0.7661	0.5000	0.0175	0.0200	-12.3	20.0
1,2-Dichloroethane	Ave	0.2880	0.2612	0.1000	0.0181	0.0200	-9.3	20.0
n-Heptane	Lin1		0.1377		0.0161	0.0200	-19.4	20.0
Trichloroethene	Ave	0.2904	0.2370	0.1500	0.0163	0.0200	-18.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Lab Sample ID: CCVIS 240-340454/5 Calibration Date: 08/12/2018 09:56

Instrument ID: A3UX12 Calib Start Date: 07/25/2018 09:02

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 11:15

Lab File ID: U1265845.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	0.3914	0.3528	0.1000	0.0180	0.0200	-9.9	20.0
1,2-Dichloropropane	Ave	0.1789	0.1537	0.1000	0.0172	0.0200	-14.1	20.0
Dibromomethane	Ave	0.1868	0.1584		0.0170	0.0200	-15.2	20.0
1,4-Dioxane	Ave	0.0022	0.0028		0.498	0.400	24.5	50.0
Bromodichloromethane	Ave	0.2803	0.2465	0.1500	0.0176	0.0200	-12.1	20.0
2-Chloroethyl vinyl ether	Ave	0.1231	0.1142		0.0371	0.0400	-7.2	20.0
cis-1,3-Dichloropropene	Ave	0.3036	0.2622	0.1500	0.0173	0.0200	-13.6	20.0
4-Methyl-2-pentanone	Ave	0.2278	0.2196	0.0500	0.0386	0.0400	-3.6	20.0
Toluene	Ave	1.208	1.073	0.4000	0.0178	0.0200	-11.2	20.0
trans-1,3-Dichloropropene	Ave	0.3656	0.3268	0.1000	0.0179	0.0200	-10.6	20.0
Ethyl methacrylate	Ave	0.3364	0.3253		0.0193	0.0200	-3.3	20.0
1,1,2-Trichloroethane	Ave	0.2416	0.2216	0.1000	0.0183	0.0200	-8.3	20.0
Tetrachloroethene	Ave	0.3738	0.3145	0.1500	0.0168	0.0200	-15.9	20.0
1,3-Dichloropropane	Ave	0.4010	0.3647		0.0182	0.0200	-9.1	20.0
2-Hexanone	Ave	0.2109	0.2141	0.0500	0.0406	0.0400	1.5	20.0
Dibromochloromethane	Ave	0.2889	0.2571		0.0178	0.0200	-11.0	20.0
1,2-Dibromoethane	Ave	0.2807	0.2499		0.0178	0.0200	-11.0	20.0
Chlorobenzene	Ave	0.8768	0.7484	0.3000	0.0171	0.0200	-14.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3134	0.2739		0.0175	0.0200	-12.6	20.0
Ethylbenzene	Ave	0.4786	0.4081		0.0171	0.0200	-14.7	20.0
m-Xylene & p-Xylene	Ave	0.6146	0.5202		0.0169	0.0200	-15.4	20.0
o-Xylene	Ave	0.5799	0.5143		0.0177	0.0200	-11.3	20.0
Styrene	Ave	0.9317	0.8416	0.3000	0.0181	0.0200	-9.7	20.0
Bromoform	Ave	0.2269	0.1953	0.1000	0.0172	0.0200	-13.9	20.0
Isopropylbenzene	Ave	1.533	1.333	0.1000	0.0174	0.0200	-13.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6449	0.6016	0.3000	0.0187	0.0200	-6.7	20.0
Bromobenzene	Ave	0.6679	0.6035		0.0181	0.0200	-9.6	20.0
1,2,3-Trichloropropane	Ave	0.2751	0.2512		0.0183	0.0200	-8.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1783	0.1847		0.0207	0.0200	3.6	20.0
n-Propylbenzene	Ave	0.7525	0.6545		0.0174	0.0200	-13.0	20.0
2-Chlorotoluene	Ave	0.6357	0.5576		0.0175	0.0200	-12.3	20.0
1,3,5-Trimethylbenzene	Ave	2.095	1.836		0.0175	0.0200	-12.4	20.0
4-Chlorotoluene	Ave	0.6686	0.5853		0.0175	0.0200	-12.5	20.0
tert-Butylbenzene	Ave	1.957	1.655		0.0169	0.0200	-15.4	20.0
1,2,4-Trimethylbenzene	Ave	2.195	1.921		0.0175	0.0200	-12.5	20.0
sec-Butylbenzene	Ave	2.723	2.350		0.0173	0.0200	-13.7	20.0
1,3-Dichlorobenzene	Ave	1.351	1.162	0.6000	0.0172	0.0200	-14.0	20.0
p-Isopropyltoluene	Ave	2.429	2.106		0.0173	0.0200	-13.3	20.0
1,4-Dichlorobenzene	Ave	1.413	1.184	0.5000	0.0168	0.0200	-16.2	20.0
n-Butylbenzene	Ave	1.960	1.658		0.0169	0.0200	-15.4	20.0
1,2-Dichlorobenzene	Ave	1.303	1.107	0.4000	0.0170	0.0200	-15.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-340454/5 Calibration Date: 08/12/2018 09:56
 Instrument ID: A3UX12 Calib Start Date: 07/25/2018 09:02
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 11:15
 Lab File ID: U1265845.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	0.2298	0.1961	0.0500	0.0171	0.0200	-14.7	50.0
1,2,4-Trichlorobenzene	Ave	0.8544	0.6421	0.2000	0.0150	0.0200	-24.9	50.0
Hexachlorobutadiene	Ave	0.3169	0.2289		0.0144	0.0200	-27.8*	20.0
Naphthalene	Ave	2.648	2.016		0.0152	0.0200	-23.9	50.0
1,2,3-Trichlorobenzene	Ave	0.7836	0.5891		0.0150	0.0200	-24.8*	20.0
Dibromofluoromethane (Surr)	Ave	0.2499	0.2698		0.0216	0.0200	7.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2489	0.2866		0.0230	0.0200	15.2	20.0
Toluene-d8 (Surr)	Ave	1.103	1.209		0.0219	0.0200	9.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4170	0.4477		0.0215	0.0200	7.4	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Lab File ID: BFB3936.D BFB Injection Date: 08/13/2018
Instrument ID: A3UX12 BFB Injection Time: 09:40
Analysis Batch No.: 340552

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.3
75	30.0 - 60.0 % of mass 95	50.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.2
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	90.4
175	5.0 - 9.0 % of mass 174	7.0 (7.8) 1
176	95.0 - 101.0 % of mass 174	88.4 (97.8) 1
177	5.0 - 9.0 % of mass 176	6.2 (7.0) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-340552/4	U1265875.D	08/13/2018	10:03
	CCVIS 240-340552/5	U1265876.D	08/13/2018	10:26
	LCS 240-340552/6	U1265877.D	08/13/2018	10:48
	MB 240-340552/9	U1265880.D	08/13/2018	11:53
MSA-SW38A-080718	240-99625-5	U1265890.D	08/13/2018	16:03
MSA-SW38B-080718	240-99625-6	U1265891.D	08/13/2018	16:25
MSA-SW38C-080718	240-99625-7	U1265892.D	08/13/2018	16:47
MSA-SW38D-080718	240-99625-8	U1265893.D	08/13/2018	17:10
MSA-SW39A-080718	240-99625-9	U1265894.D	08/13/2018	17:32
MSA-SW39B-080718	240-99625-10	U1265895.D	08/13/2018	17:54
MSA-SW39C-080718	240-99625-11	U1265896.D	08/13/2018	18:16
MSA-SW39D-080718	240-99625-12	U1265897.D	08/13/2018	18:39
MSA-SW40A-080718	240-99625-13	U1265898.D	08/13/2018	19:00
MSA-SW40B-080718	240-99625-14	U1265899.D	08/13/2018	19:22
MSA-SW40C-080718	240-99625-15	U1265900.D	08/13/2018	19:45
MSA-SW40D-080718	240-99625-16	U1265901.D	08/13/2018	20:07
MSA-SW41A-080718	240-99625-17	U1265902.D	08/13/2018	20:29

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: CCV 240-340552/4 Calibration Date: 08/13/2018 10:03
 Instrument ID: A3UX12 Calib Start Date: 07/25/2018 13:23
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 15:13
 Lab File ID: U1265875.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	0.0274	0.0300		0.219	0.200	9.3	20.0
Diisopropyl ether	Ave	0.2007	0.1959		0.0195	0.0200	-2.4	20.0
2-Chloro-1,3-butadiene	Ave	0.2952	0.3045		0.0206	0.0200	3.2	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.5667	0.5677		0.0200	0.0200	0.2	20.0
Ethyl acetate	Ave	0.2120	0.2078		0.0392	0.0400	-2.0	50.0
Propionitrile	Ave	0.0387	0.0415		0.214	0.200	7.2	20.0
Methacrylonitrile	Ave	0.1319	0.1371		0.208	0.200	3.9	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.6556	0.6584		0.0201	0.0200	0.4	20.0
n-Butanol	Ave	0.0099	0.0114		0.579	0.500	15.7	20.0
Ethyl acrylate	Ave	0.2605	0.2570		0.0197	0.0200	-1.3	20.0
Methyl methacrylate	Ave	0.1643	0.1647		0.0401	0.0400	0.3	20.0
2-Nitropropane	Ave	0.0563	0.0571		0.0406	0.0400	1.4	20.0
n-Butyl acetate	Ave	0.3882	0.4174		0.0215	0.0200	7.5	20.0
1-Chlorohexane	Ave	0.4159	0.4142		0.0199	0.0200	-0.4	20.0
Cyclohexanone	Ave	0.0115	0.0243		0.423	0.200	111.5*	20.0
Pentachloroethane	Ave	0.3295	0.3400		0.0413	0.0400	3.2	20.0
1,2,3-Trimethylbenzene	Ave	2.226	2.157		0.0194	0.0200	-3.1	20.0
Benzyl chloride	Lin1		1.266		0.0173	0.0200	-13.7	20.0
1,3,5-Trichlorobenzene	Ave	0.9858	0.8679		0.0176	0.0200	-12.0	20.0
2-Methylnaphthalene	Ave	1.516	1.170		0.0309	0.0400	-22.9*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Lab Sample ID: CCVIS 240-340552/5 Calibration Date: 08/13/2018 10:26

Instrument ID: A3UX12 Calib Start Date: 07/25/2018 09:02

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 11:15

Lab File ID: U1265876.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	Lin1		0.3134	0.1000	0.0211	0.0200	5.6	20.0
Chloromethane	Ave	0.3205	0.3271	0.1000	0.0204	0.0200	2.1	20.0
Butadiene	Ave	0.2221	0.2401		0.0216	0.0200	8.1	20.0
Vinyl chloride	Ave	0.2477	0.2635	0.1000	0.0213	0.0200	6.4	20.0
Bromomethane	Ave	0.2564	0.2246	0.0500	0.0175	0.0200	-12.4	20.0
Chloroethane	Ave	0.1964	0.1811	0.0500	0.0184	0.0200	-7.8	20.0
Dichlorofluoromethane	Ave	0.4329	0.4172		0.0193	0.0200	-3.6	20.0
Trichlorofluoromethane	Ave	0.4739	0.4433	0.1000	0.0187	0.0200	-6.5	20.0
Ethyl ether	Ave	0.1849	0.1822		0.0197	0.0200	-1.5	20.0
Acrolein	Ave	0.0469	0.0476		0.101	0.100	1.5	50.0
1,1-Dichloroethene	Ave	0.3057	0.3124	0.1000	0.0204	0.0200	2.2	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Lin1		0.2363	0.0500	0.0191	0.0200	-4.7	20.0
Acetone	Lin1		0.0960	0.0100	0.0449	0.0400	12.4	50.0
Iodomethane	Ave	0.4215	0.4062		0.0193	0.0200	-3.6	20.0
Carbon disulfide	Ave	0.6688	0.6048	0.1000	0.0181	0.0200	-9.6	20.0
3-Chloro-1-propene	Ave	0.2747	0.2670		0.0194	0.0200	-2.8	20.0
Methyl acetate	Ave	0.1979	0.2089	0.1000	0.0422	0.0400	5.6	20.0
Methylene Chloride	Ave	0.2478	0.2352	0.1000	0.0190	0.0200	-5.1	50.0
tert-Butyl alcohol	Ave	0.0393	0.0435		0.221	0.200	10.6	50.0
Acrylonitrile	Ave	0.0991	0.1025		0.207	0.200	3.4	20.0
Methyl tert-butyl ether	Ave	0.6407	0.6504	0.1000	0.0203	0.0200	1.5	20.0
trans-1,2-Dichloroethene	Ave	0.2886	0.2820	0.1000	0.0195	0.0200	-2.3	20.0
Hexane	Ave	0.2565	0.2862		0.0223	0.0200	11.6	20.0
1,1-Dichloroethane	Ave	0.3510	0.3586	0.2000	0.0204	0.0200	2.2	20.0
Vinyl acetate	Ave	0.2928	0.3365		0.0230	0.0200	14.9	50.0
2,2-Dichloropropane	Ave	0.2584	0.2460		0.0190	0.0200	-4.8	20.0
cis-1,2-Dichloroethene	Ave	0.2848	0.2726	0.1000	0.0191	0.0200	-4.3	20.0
2-Butanone	Ave	0.0397	0.0432	0.0100	0.0435	0.0400	8.7	20.0
Bromochloromethane	Ave	0.1628	0.1612		0.0198	0.0200	-1.0	20.0
Tetrahydrofuran	Ave	0.0771	0.0852		0.0442	0.0400	10.4	20.0
Chloroform	Ave	0.4017	0.4000	0.2000	0.0199	0.0200	-0.4	20.0
1,1,1-Trichloroethane	Ave	0.3744	0.3640	0.1000	0.0194	0.0200	-2.8	20.0
Cyclohexane	Ave	0.3523	0.3604	0.1000	0.0205	0.0200	2.3	20.0
1,1-Dichloropropene	Ave	0.3070	0.3132		0.0204	0.0200	2.0	20.0
Carbon tetrachloride	Ave	0.3379	0.3251	0.1000	0.0192	0.0200	-3.8	20.0
Isobutyl alcohol	Ave	0.0103	0.0120		0.579	0.500	15.9	20.0
Benzene	Ave	0.8734	0.8840	0.5000	0.0202	0.0200	1.2	20.0
1,2-Dichloroethane	Ave	0.2880	0.2965	0.1000	0.0206	0.0200	2.9	20.0
n-Heptane	Lin1		0.1612		0.0195	0.0200	-2.3	20.0
Trichloroethene	Ave	0.2904	0.2797	0.1500	0.0193	0.0200	-3.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Lab Sample ID: CCVIS 240-340552/5 Calibration Date: 08/13/2018 10:26

Instrument ID: A3UX12 Calib Start Date: 07/25/2018 09:02

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 11:15

Lab File ID: U1265876.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	0.3914	0.4114	0.1000	0.0210	0.0200	5.1	20.0
1,2-Dichloropropane	Ave	0.1789	0.1766	0.1000	0.0197	0.0200	-1.3	20.0
Dibromomethane	Ave	0.1868	0.1795		0.0192	0.0200	-3.9	20.0
1,4-Dioxane	Ave	0.0022	0.0031		0.554	0.400	38.6	50.0
Bromodichloromethane	Ave	0.2803	0.2764	0.1500	0.0197	0.0200	-1.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1231	0.1259		0.0409	0.0400	2.3	20.0
cis-1,3-Dichloropropene	Ave	0.3036	0.2927	0.1500	0.0193	0.0200	-3.6	20.0
4-Methyl-2-pentanone	Ave	0.2278	0.2452	0.0500	0.0430	0.0400	7.6	20.0
Toluene	Ave	1.208	1.255	0.4000	0.0208	0.0200	3.9	20.0
trans-1,3-Dichloropropene	Ave	0.3656	0.3693	0.1000	0.0202	0.0200	1.0	20.0
Ethyl methacrylate	Ave	0.3364	0.3646		0.0217	0.0200	8.4	20.0
1,1,2-Trichloroethane	Ave	0.2416	0.2547	0.1000	0.0211	0.0200	5.4	20.0
Tetrachloroethene	Ave	0.3738	0.3685	0.1500	0.0197	0.0200	-1.4	20.0
1,3-Dichloropropane	Ave	0.4010	0.4112		0.0205	0.0200	2.5	20.0
2-Hexanone	Ave	0.2109	0.2390	0.0500	0.0453	0.0400	13.4	20.0
Dibromochloromethane	Ave	0.2889	0.2832		0.0196	0.0200	-2.0	20.0
1,2-Dibromoethane	Ave	0.2807	0.2839		0.0202	0.0200	1.1	20.0
Chlorobenzene	Ave	0.8768	0.8510	0.3000	0.0194	0.0200	-2.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3134	0.3201		0.0204	0.0200	2.1	20.0
Ethylbenzene	Ave	0.4786	0.4769		0.0199	0.0200	-0.4	20.0
m-Xylene & p-Xylene	Ave	0.6146	0.5939		0.0193	0.0200	-3.4	20.0
o-Xylene	Ave	0.5799	0.5873		0.0203	0.0200	1.3	20.0
Styrene	Ave	0.9317	0.9712	0.3000	0.0208	0.0200	4.2	20.0
Bromoform	Ave	0.2269	0.2150	0.1000	0.0190	0.0200	-5.2	20.0
Isopropylbenzene	Ave	1.533	1.503	0.1000	0.0196	0.0200	-2.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6449	0.6898	0.3000	0.0214	0.0200	7.0	20.0
Bromobenzene	Ave	0.6679	0.6683		0.0200	0.0200	0.0	20.0
1,2,3-Trichloropropane	Ave	0.2751	0.2780		0.0202	0.0200	1.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1783	0.1973		0.0221	0.0200	10.7	20.0
n-Propylbenzene	Ave	0.7525	0.7400		0.0197	0.0200	-1.7	20.0
2-Chlorotoluene	Ave	0.6357	0.6290		0.0198	0.0200	-1.1	20.0
1,3,5-Trimethylbenzene	Ave	2.095	2.158		0.0206	0.0200	3.0	20.0
4-Chlorotoluene	Ave	0.6686	0.6530		0.0195	0.0200	-2.3	20.0
tert-Butylbenzene	Ave	1.957	1.991		0.0204	0.0200	1.8	20.0
1,2,4-Trimethylbenzene	Ave	2.195	2.224		0.0203	0.0200	1.3	20.0
sec-Butylbenzene	Ave	2.723	2.832		0.0208	0.0200	4.0	20.0
1,3-Dichlorobenzene	Ave	1.351	1.320	0.6000	0.0195	0.0200	-2.3	20.0
p-Isopropyltoluene	Ave	2.429	2.559		0.0211	0.0200	5.3	20.0
1,4-Dichlorobenzene	Ave	1.413	1.387	0.5000	0.0196	0.0200	-1.8	20.0
n-Butylbenzene	Ave	1.960	2.044		0.0209	0.0200	4.3	20.0
1,2-Dichlorobenzene	Ave	1.303	1.282	0.4000	0.0197	0.0200	-1.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-340552/5 Calibration Date: 08/13/2018 10:26
 Instrument ID: A3UX12 Calib Start Date: 07/25/2018 09:02
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 11:15
 Lab File ID: U1265876.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	0.2298	0.2272	0.0500	0.0198	0.0200	-1.2	50.0
1,2,4-Trichlorobenzene	Ave	0.8544	0.7827	0.2000	0.0183	0.0200	-8.4	50.0
Hexachlorobutadiene	Ave	0.3169	0.2980		0.0188	0.0200	-5.9	20.0
Naphthalene	Ave	2.648	2.365		0.0179	0.0200	-10.7	50.0
1,2,3-Trichlorobenzene	Ave	0.7836	0.7124		0.0182	0.0200	-9.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2499	0.2650		0.0212	0.0200	6.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2489	0.2929		0.0235	0.0200	17.7	20.0
Toluene-d8 (Surr)	Ave	1.103	1.216		0.0221	0.0200	10.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4170	0.4309		0.0207	0.0200	3.3	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab File ID: bfb036.d BFB Injection Date: 07/24/2018
 Instrument ID: A3UX19 BFB Injection Time: 17:22
 Analysis Batch No.: 337766

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.1
75	30.0 - 60.0 % of mass 95	53.5
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	1.1 (1.2) 1
174	50.0 - 120.00 % of mass 95	84.3
175	5.0 - 9.0 % of mass 174	6.2 (7.4) 1
176	95.0 - 101.0 % of mass 174	80.7 (95.7) 1
177	5.0 - 9.0 % of mass 176	5.4 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-337766/2	U1900783.d	07/24/2018	17:50
	STD8260 240-337766/3	U1900784.d	07/24/2018	18:13
	STD8260 240-337766/9	U1900790.d	07/24/2018	18:35
	ICIS 240-337766/10	U1900791.d	07/24/2018	18:57
	STD8260 240-337766/11	U1900792.d	07/24/2018	19:20
	STD8260 240-337766/12	U1900793.d	07/24/2018	19:42
	STD8260 240-337766/13	U1900794.d	07/24/2018	20:04
	ICV 240-337766/14	U1900795.d	07/24/2018	20:26

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1 Analy Batch No.: 337766

SDG No.: _____

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-337766/13	U1900794.d
Level 2	STD8260 240-337766/12	U1900793.d
Level 3	STD8260 240-337766/11	U1900792.d
Level 4	ICIS 240-337766/10	U1900791.d
Level 5	STD8260 240-337766/9	U1900790.d
Level 6	STD8260 240-337766/3	U1900784.d
Level 7	STD8260 240-337766/2	U1900783.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	0.2985 0.3869	0.3275 0.3899	0.3189	0.3531	0.3613	Ave		0.3480			0.1000	10.0		20.0			
Chloromethane	0.3558 0.3258	0.3705 0.3191	0.3263	0.3392	0.3223	Ave		0.3370			0.1000	5.8		20.0			
Butadiene	0.3408 0.3374	0.3424 0.3377	0.2895	0.3248	0.3219	Ave		0.3278				5.7		20.0			
Vinyl chloride	0.2746 0.3390	0.3544 0.3374	0.3113	0.3366	0.3288	Ave		0.3260			0.1000	8.0		20.0			
Bromomethane	0.2749 0.2254	0.2866 0.2173	0.2405	0.2466	0.2251	Ave		0.2452			0.0500	10.8		20.0			
Chloroethane	0.2109 0.1921	0.2097 0.1854	0.1960	0.2032	0.1901	Ave		0.1982			0.0500	5.0		20.0			
Dichlorofluoromethane	0.5221 0.4475	0.4917 0.4372	0.4526	0.4727	0.4486	Ave		0.4675				6.5		20.0			
Trichlorofluoromethane	0.4494 0.4561	0.4680 0.4427	0.3932	0.4472	0.4396	Ave		0.4423			0.1000	5.3		20.0			
Ethyl ether	0.2193 0.1979	0.2111 0.1891	0.1902	0.1939	0.1890	Ave		0.1987				6.0		20.0			
Acrolein	0.0586 0.0546	0.0507 0.0535	0.0446	0.0490	0.0542	Ave		0.0522				8.7		20.0			
1,1-Dichloroethene	0.3808 0.3850	0.3828 0.3735	0.3902	0.3740	0.3655	Ave		0.3788			0.1000	2.2		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2602 0.2706	0.2860 0.2683	0.2820	0.2661	0.2580	Ave		0.2702			0.0500	3.9		20.0			
Acetone	++++ 0.0784	0.0790 0.0643	0.0549	0.0580	0.0606	Ave		0.0659			0.0100	15.8		20.0			
Iodomethane	0.4645 0.4649	0.4824 0.4542	0.4796	0.4736	0.4610	Ave		0.4686				2.2		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.: 240-99625-1 Analy Batch No.: 337766

SDG No.: _____

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

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	1.0264 0.7904	0.9769 0.7703	0.8143	0.7839	0.7630	Ave		0.8465			0.1000	12.8		20.0			
3-Chloro-1-propene	0.4236 0.3955	0.4245 0.3845	0.3864	0.3828	0.3812	Ave		0.3969				4.8		20.0			
Methyl acetate	0.2893 0.2388	0.2199 0.2093	0.2069	0.2105	0.2113	Ave		0.2266			0.1000	13.1		20.0			
Methylene Chloride	++++ 0.2977	0.3380 0.2854	0.3031	0.3009	0.2892	Ave		0.3024			0.1000	6.2		20.0			
tert-Butyl alcohol	++++ 0.0272	0.0286 ++++	0.0233	0.0231	0.0210	Ave		0.0246				12.8		20.0			
Acrylonitrile	0.1149 0.1149	0.0936 0.0991	0.0942	0.0985	0.1008	Ave		0.1023				8.8		20.0			
trans-1,2-Dichloroethene	0.4272 0.3621	0.3980 0.3508	0.3681	0.3544	0.3490	Ave		0.3728			0.1000	7.8		20.0			
Methyl tert-butyl ether	0.6889 0.7038	0.7226 0.6502	0.7037	0.7046	0.6888	Ave		0.6946			0.1000	3.3		20.0			
Hexane	0.4016 0.4127	0.4088 0.4136	0.4369	0.3839	0.3905	Ave		0.4069				4.3		20.0			
1,1-Dichloroethane	0.4297 0.4479	0.4309 0.4358	0.4483	0.4451	0.4391	Ave		0.4395			0.2000	1.8		20.0			
Vinyl acetate	0.4180 0.4211	0.3784 0.4083	0.3943	0.3850	0.3928	Ave		0.3997				4.1		20.0			
cis-1,2-Dichloroethene	0.3259 0.3058	0.3308 0.2928	0.3020	0.3030	0.2971	Ave		0.3082			0.1000	4.7		20.0			
2-Butanone	++++ 0.0411	0.0357 0.0381	0.0358	0.0358	0.0391	Ave		0.0376			0.0100	6.0		20.0			
2,2-Dichloropropane	0.2667 0.2404	0.2856 0.2633	0.2822	0.2661	0.2457	Ave		0.2643				6.4		20.0			
Bromochloromethane	0.2447 0.2004	0.2207 0.1830	0.1878	0.1937	0.1884	Ave		0.2027				11.0		20.0			
Tetrahydrofuran	0.0995 0.1054	0.1040 0.0940	0.0907	0.0913	0.0950	Ave		0.0971				6.1		20.0			
Chloroform	0.4629 0.4616	0.4798 0.4429	0.4485	0.4541	0.4433	Ave		0.4561			0.2000	2.9		20.0			
1,1,1-Trichloroethane	0.3956 0.4177	0.3988 0.4154	0.4324	0.4070	0.4089	Ave		0.4108			0.1000	3.0		20.0			
Cyclohexane	0.4246 0.4364	0.4382 0.4292	0.4507	0.4156	0.4161	Ave		0.4301			0.1000	3.0		20.0			
1,1-Dichloropropene	0.3755 0.3758	0.3903 0.3692	0.3840	0.3595	0.3614	Ave		0.3737				3.0		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.: 240-99625-1 Analy Batch No.: 337766
SDG No.: _____
Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

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	0.3639 0.3981	0.3846 0.3917	0.3944	0.3722	0.3729	Ave		0.3825			0.1000	3.4		20.0			
Isobutyl alcohol	0.0095 0.0104	0.0071 0.0087	0.0088	0.0079	0.0092	Ave		0.0088				12.2		20.0			
Benzene	0.9890 1.0452	1.0827 1.0051	1.0373	1.0007	1.0215	Ave		1.0259			0.5000	3.1		20.0			
1,2-Dichloroethane	0.3674 0.3257	0.3549 0.3127	0.3205	0.3110	0.3150	Ave		0.3296			0.1000	6.8		20.0			
n-Heptane	++++ 0.2252	0.7970 0.2266	0.2839	0.2324	0.2217	Lin1	0.5799	0.2147				4.3			0.9990		0.9900
Trichloroethene	0.3122 0.3167	0.3258 0.3140	0.3258	0.3068	0.3105	Ave		0.3160			0.1500	2.3		20.0			
Methylcyclohexane	0.4985 0.5342	0.5073 0.5200	0.5394	0.4970	0.4957	Ave		0.5132			0.1000	3.6		20.0			
1,2-Dichloropropane	0.2050 0.2404	0.2394 0.2326	0.2309	0.2270	0.2376	Ave		0.2304			0.1000	5.3		20.0			
Dibromomethane	0.2379 0.2151	0.2154 0.2010	0.2009	0.2115	0.2105	Ave		0.2132				5.8		20.0			
1,4-Dioxane	++++ 0.0024	0.0017 0.0024	0.0024	0.0024	0.0023	Ave		0.0023				13.5		20.0			
Bromodichloromethane	0.3232 0.3408	0.3027 0.3295	0.3203	0.3127	0.3310	Ave		0.3229			0.1500	3.9		20.0			
2-Chloroethyl vinyl ether	0.1601 0.1755	0.1580 0.1783	0.1797	0.1698	0.1774	Ave		0.1713				5.2		20.0			
cis-1,3-Dichloropropene	0.3599 0.3873	0.3811 0.3872	0.3686	0.3735	0.3865	Ave		0.3777			0.1500	2.8		20.0			
4-Methyl-2-pentanone	0.2834 0.3221	0.2998 0.3046	0.3240	0.2983	0.3095	Ave		0.3059			0.0500	4.6		20.0			
Toluene	1.5618 1.4027	1.4672 1.4180	1.4098	1.3276	1.3894	Ave		1.4252			0.4000	5.1		20.0			
trans-1,3-Dichloropropene	0.4760 0.4702	0.4587 0.4631	0.4478	0.4252	0.4649	Ave		0.4580			0.1000	3.7		20.0			
Ethyl methacrylate	0.4185 0.4604	0.4061 0.4531	0.4309	0.4112	0.4583	Ave		0.4341				5.3		20.0			
1,1,2-Trichloroethane	0.2547 0.2895	0.2773 0.2862	0.2834	0.2725	0.2908	Ave		0.2792			0.1000	4.5		20.0			
Tetrachloroethene	0.4086 0.4320	0.4228 0.4317	0.4309	0.4048	0.4173	Ave		0.4212			0.1500	2.7		20.0			
1,3-Dichloropropane	0.4853 0.4890	0.5028 0.4855	0.4893	0.4635	0.4865	Ave		0.4860				2.4		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.: 240-99625-1 Analy Batch No.: 337766

SDG No.: _____

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

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	0.2860 0.3061	0.2740 0.2989	0.3048	0.2770	0.2999	Ave		0.2924			0.0500	4.5		20.0			
Dibromochloromethane	0.3153 0.3531	0.3347 0.3456	0.3254	0.3197	0.3424	Ave		0.3337				4.2		20.0			
1,2-Dibromoethane	0.3316 0.3186	0.3371 0.3125	0.3153	0.3013	0.3163	Ave		0.3190				3.8		20.0			
Chlorobenzene	0.9988 0.9439	1.0195 0.9268	0.9392	0.9052	0.9346	Ave		0.9526			0.3000	4.3		20.0			
1,1,1,2-Tetrachloroethane	0.2852 0.3466	0.3288 0.3341	0.3290	0.3310	0.3341	Ave		0.3270				5.9		20.0			
Ethylbenzene	0.4594 0.5246	0.5226 0.5211	0.5127	0.4996	0.5108	Ave		0.5073				4.5		20.0			
m-Xylene & p-Xylene	0.6169 0.6437	0.6148 0.6359	0.6355	0.6137	0.6232	Ave		0.6262				1.9		20.0			
o-Xylene	0.5941 0.6233	0.5896 0.6029	0.6245	0.6014	0.5968	Ave		0.6047				2.3		20.0			
Styrene	0.9580 1.0545	0.9583 1.0320	1.0135	0.9872	1.0201	Ave		1.0034			0.3000	3.7		20.0			
Bromoform	++++ 0.2846	0.2440 0.2826	0.2606	0.2566	0.2726	Ave		0.2668			0.1000	6.0		20.0			
Isopropylbenzene	1.5546 1.6483	1.5581 1.6164	1.6482	1.5866	1.5868	Ave		1.5999			0.1000	2.4		20.0			
1,1,2,2-Tetrachloroethane	0.7561 0.8073	0.8321 0.7913	0.8175	0.7659	0.8099	Ave		0.7972			0.3000	3.5		20.0			
Bromobenzene	0.8153 0.7490	0.7267 0.7427	0.7731	0.7237	0.7577	Ave		0.7555				4.2		20.0			
1,2,3-Trichloropropane	0.3160 0.2796	0.2566 0.2769	0.2966	0.2651	0.2852	Ave		0.2823				7.0		20.0			
trans-1,4-Dichloro-2-butene	0.2699 0.2473	0.2213 0.2516	0.2435	0.2261	0.2517	Ave		0.2445				6.7		20.0			
n-Propylbenzene	0.7798 0.8210	0.7523 0.8202	0.8514	0.7731	0.8029	Ave		0.8001				4.2		20.0			
2-Chlorotoluene	0.6509 0.6957	0.7125 0.6833	0.7132	0.6770	0.6858	Ave		0.6883				3.1		20.0			
1,3,5-Trimethylbenzene	2.0585 2.3418	2.1282 2.3386	2.4321	2.2627	2.2905	Ave		2.2646				5.7		20.0			
4-Chlorotoluene	0.7199 0.7173	0.7260 0.7141	0.7528	0.6936	0.7171	Ave		0.7201				2.4		20.0			
tert-Butylbenzene	2.0893 2.2086	2.2305 2.1805	2.3049	2.0958	2.1272	Ave		2.1767				3.6		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.: 240-99625-1 Analy Batch No.: 337766
SDG No.: _____
Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

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	2.3016 2.3641	2.3139 2.3974	2.4350	2.3225	2.3165	Ave		2.3501				2.1		20.0			
sec-Butylbenzene	2.8312 3.0965	2.8639 3.1341	3.2011	2.9684	2.9595	Ave		3.0078				4.6		20.0			
1,3-Dichlorobenzene	1.6206 1.4203	1.5501 1.4165	1.4543	1.3821	1.4074	Ave		1.4645			0.6000	6.0		20.0			
p-Isopropyltoluene	2.3868 2.6740	2.3755 2.7456	2.7383	2.5786	2.5586	Ave		2.5796				5.9		20.0			
1,4-Dichlorobenzene	1.7882 1.4335	1.6574 1.4328	1.4853	1.4002	1.4320	Ave		1.5185			0.5000	9.7		20.0			
n-Butylbenzene	2.0220 2.3242	2.1252 2.3914	2.3447	2.2111	2.1782	Ave		2.2281				5.9		20.0			
1,2-Dichlorobenzene	1.3936 1.3079	1.4283 1.3217	1.3446	1.2913	1.2861	Ave		1.3391			0.4000	4.0		20.0			
1,2-Dibromo-3-Chloropropane	0.2394 0.2501	0.2225 0.2556	0.2287	0.2293	0.2369	Ave		0.2375			0.0500	5.0		20.0			
1,2,4-Trichlorobenzene	1.0063 0.8577	1.0084 0.9508	0.8893	0.8765	0.8484	Ave		0.9196			0.2000	7.4		20.0			
Hexachlorobutadiene	0.4988 0.4431	0.5134 0.5128	0.4874	0.4604	0.4444	Ave		0.4800				6.4		20.0			
Naphthalene	2.5280 2.5374	2.6896 2.7560	2.5594	2.5256	2.5586	Ave		2.5935				3.5		20.0			
1,2,3-Trichlorobenzene	0.8270 0.7867	0.8451 0.9084	0.8355	0.8114	0.8072	Ave		0.8316				4.7		20.0			
Dibromofluoromethane (Surr)	0.2924 0.2586	0.2650 0.2453	0.2515	0.2531	0.2466	Ave		0.2589				6.3		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3213 0.2669	0.3001 0.2485	0.2625	0.2659	0.2555	Ave		0.2744				9.6		20.0			
Toluene-d8 (Surr)	1.2522 1.2151	1.2033 1.2031	1.2111	1.1433	1.2004	Ave		1.2041				2.7		20.0			
4-Bromofluorobenzene (Surr)	0.5696 0.4390	0.4918 0.4279	0.4472	0.4315	0.4318	Ave		0.4627				11.2		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.: 240-99625-1

SDG No.: _____

Lab Sample ID: ICV 240-337766/14 Calibration Date: 07/24/2018 20:26

Instrument ID: A3UX19 Calib Start Date: 07/24/2018 17:50

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/24/2018 20:04

Lab File ID: U1900795.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	0.3480	0.2842	0.1000	0.0163	0.0200	-18.4	30.0
Chloromethane	Ave	0.3370	0.3064	0.1000	0.0182	0.0200	-9.1	30.0
Butadiene	Ave	0.3278	0.2875		0.0175	0.0200	-12.3	30.0
Vinyl chloride	Ave	0.3260	0.3218	0.1000	0.0197	0.0200	-1.3	30.0
Bromomethane	Ave	0.2452	0.2216	0.0500	0.0181	0.0200	-9.6	30.0
Chloroethane	Ave	0.1982	0.1928	0.0500	0.0195	0.0200	-2.7	30.0
Dichlorofluoromethane	Ave	0.4675	0.4810		0.0206	0.0200	2.9	30.0
Trichlorofluoromethane	Ave	0.4423	0.4550	0.1000	0.0206	0.0200	2.9	30.0
Ethyl ether	Ave	0.1987	0.2101		0.0212	0.0200	5.8	30.0
Acrolein	Ave	0.0522	0.0291		0.0558	0.100	-44.2	50.0
1,1-Dichloroethene	Ave	0.3788	0.3947	0.1000	0.0208	0.0200	4.2	30.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2702	0.2750	0.0500	0.0204	0.0200	1.8	30.0
Acetone	Ave	0.0659	0.0700	0.0100	0.0425	0.0400	6.3	50.0
Iodomethane	Ave	0.4686	0.4730		0.0202	0.0200	0.9	30.0
Carbon disulfide	Ave	0.8465	0.7694	0.1000	0.0182	0.0200	-9.1	30.0
3-Chloro-1-propene	Ave	0.3969	0.3975		0.0200	0.0200	0.2	30.0
Methyl acetate	Ave	0.2266	0.2275	0.1000	0.0402	0.0400	0.4	30.0
Methylene Chloride	Ave	0.3024	0.3018	0.1000	0.0200	0.0200	-0.2	50.0
tert-Butyl alcohol	Ave	0.0246	0.0258		0.210	0.200	4.8	50.0
Acrylonitrile	Ave	0.1023	0.1128		0.220	0.200	10.2	30.0
trans-1,2-Dichloroethene	Ave	0.3728	0.3838	0.1000	0.0206	0.0200	3.0	30.0
Methyl tert-butyl ether	Ave	0.6946	0.7243	0.1000	0.0209	0.0200	4.3	30.0
Hexane	Ave	0.4069	0.4137		0.0203	0.0200	1.7	30.0
1,1-Dichloroethane	Ave	0.4395	0.4556	0.2000	0.0207	0.0200	3.6	30.0
Vinyl acetate	Ave	0.3997	0.4595		0.0230	0.0200	15.0	50.0
cis-1,2-Dichloroethene	Ave	0.3082	0.3095	0.1000	0.0201	0.0200	0.4	30.0
2,2-Dichloropropane	Ave	0.2643	0.2569		0.0194	0.0200	-2.8	30.0
2-Butanone	Ave	0.0376	0.0435	0.0100	0.0462	0.0400	15.6	30.0
Bromochloromethane	Ave	0.2027	0.1969		0.0194	0.0200	-2.8	30.0
Tetrahydrofuran	Ave	0.0971	0.1013		0.0417	0.0400	4.3	30.0
Chloroform	Ave	0.4561	0.4643	0.2000	0.0204	0.0200	1.8	30.0
1,1,1-Trichloroethane	Ave	0.4108	0.4308	0.1000	0.0210	0.0200	4.9	30.0
Cyclohexane	Ave	0.4301	0.4359	0.1000	0.0203	0.0200	1.4	30.0
1,1-Dichloropropene	Ave	0.3737	0.3788		0.0203	0.0200	1.4	30.0
Carbon tetrachloride	Ave	0.3825	0.3927	0.1000	0.0205	0.0200	2.7	30.0
Isobutyl alcohol	Ave	0.0088	0.0102		0.578	0.500	15.6	30.0
Benzene	Ave	1.026	1.043	0.5000	0.0203	0.0200	1.6	30.0
1,2-Dichloroethane	Ave	0.3296	0.3301	0.1000	0.0200	0.0200	0.1	30.0
n-Heptane	Lin1		0.2435		0.0200	0.0200	-0.1	30.0
Trichloroethene	Ave	0.3160	0.3153	0.1500	0.0200	0.0200	-0.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Lab Sample ID: ICV 240-337766/14 Calibration Date: 07/24/2018 20:26

Instrument ID: A3UX19 Calib Start Date: 07/24/2018 17:50

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/24/2018 20:04

Lab File ID: U1900795.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	0.5132	0.5100	0.1000	0.0199	0.0200	-0.6	30.0
1,2-Dichloropropane	Ave	0.2304	0.2322	0.1000	0.0202	0.0200	0.8	30.0
1,4-Dioxane	Ave	0.0023	0.0024		0.426	0.400	6.4	50.0
Dibromomethane	Ave	0.2132	0.2009		0.0188	0.0200	-5.8	30.0
Bromodichloromethane	Ave	0.3229	0.3323	0.1500	0.0206	0.0200	2.9	30.0
2-Chloroethyl vinyl ether	Ave	0.1713	0.1729		0.0202	0.0200	0.9	30.0
cis-1,3-Dichloropropene	Ave	0.3777	0.3902	0.1500	0.0207	0.0200	3.3	30.0
4-Methyl-2-pentanone	Ave	0.3059	0.3180	0.0500	0.0416	0.0400	3.9	30.0
Toluene	Ave	1.425	1.415	0.4000	0.0199	0.0200	-0.7	30.0
trans-1,3-Dichloropropene	Ave	0.4580	0.4303	0.1000	0.0188	0.0200	-6.0	30.0
Ethyl methacrylate	Ave	0.4341	0.4312		0.0199	0.0200	-0.7	30.0
1,1,2-Trichloroethane	Ave	0.2792	0.2931	0.1000	0.0210	0.0200	5.0	30.0
Tetrachloroethene	Ave	0.4212	0.4284	0.1500	0.0203	0.0200	1.7	30.0
1,3-Dichloropropane	Ave	0.4860	0.4830		0.0199	0.0200	-0.6	30.0
2-Hexanone	Ave	0.2924	0.3012	0.0500	0.0412	0.0400	3.0	30.0
Dibromochloromethane	Ave	0.3337	0.3434		0.0206	0.0200	2.9	30.0
1,2-Dibromoethane	Ave	0.3190	0.3155		0.0198	0.0200	-1.1	30.0
Chlorobenzene	Ave	0.9526	0.9328	0.3000	0.0196	0.0200	-2.1	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3270	0.3392		0.0207	0.0200	3.7	30.0
Ethylbenzene	Ave	0.5073	0.5161		0.0203	0.0200	1.7	30.0
m-Xylene & p-Xylene	Ave	0.6262	0.6303		0.0201	0.0200	0.6	30.0
o-Xylene	Ave	0.6047	0.6187		0.0205	0.0200	2.3	30.0
Styrene	Ave	1.003	1.005	0.3000	0.0200	0.0200	0.2	30.0
Bromoform	Ave	0.2668	0.2631	0.1000	0.0197	0.0200	-1.4	30.0
Isopropylbenzene	Ave	1.600	1.645	0.1000	0.0206	0.0200	2.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7972	0.8202	0.3000	0.0206	0.0200	2.9	30.0
Bromobenzene	Ave	0.7555	0.7382		0.0195	0.0200	-2.3	30.0
1,2,3-Trichloropropane	Ave	0.2823	0.2859		0.0203	0.0200	1.3	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2445	0.2373		0.0194	0.0200	-2.9	30.0
n-Propylbenzene	Ave	0.8001	0.8284		0.0207	0.0200	3.5	30.0
2-Chlorotoluene	Ave	0.6883	0.6863		0.0199	0.0200	-0.3	30.0
1,3,5-Trimethylbenzene	Ave	2.265	2.327		0.0205	0.0200	2.7	30.0
4-Chlorotoluene	Ave	0.7201	0.7215		0.0200	0.0200	0.2	30.0
tert-Butylbenzene	Ave	2.177	2.170		0.0199	0.0200	-0.3	30.0
1,2,4-Trimethylbenzene	Ave	2.350	2.364		0.0201	0.0200	0.6	30.0
sec-Butylbenzene	Ave	3.008	3.071		0.0204	0.0200	2.1	30.0
1,3-Dichlorobenzene	Ave	1.464	1.417	0.6000	0.0194	0.0200	-3.2	30.0
p-Isopropyltoluene	Ave	2.580	2.685		0.0208	0.0200	4.1	30.0
1,4-Dichlorobenzene	Ave	1.519	1.432	0.5000	0.0189	0.0200	-5.7	30.0
n-Butylbenzene	Ave	2.228	2.276		0.0204	0.0200	2.1	30.0
1,2-Dichlorobenzene	Ave	1.339	1.315	0.4000	0.0196	0.0200	-1.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: ICV 240-337766/14 Calibration Date: 07/24/2018 20:26
 Instrument ID: A3UX19 Calib Start Date: 07/24/2018 17:50
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/24/2018 20:04
 Lab File ID: U1900795.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	0.2375	0.2406	0.0500	0.0203	0.0200	1.3	50.0
1,2,4-Trichlorobenzene	Ave	0.9196	0.8397	0.2000	0.0183	0.0200	-8.7	50.0
Hexachlorobutadiene	Ave	0.4800	0.4398		0.0183	0.0200	-8.4	30.0
Naphthalene	Ave	2.594	2.483		0.0192	0.0200	-4.2	50.0
1,2,3-Trichlorobenzene	Ave	0.8316	0.7818		0.0188	0.0200	-6.0	30.0
Dibromofluoromethane (Surr)	Ave	0.2589	0.2692		0.0208	0.0200	4.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2744	0.2807		0.0205	0.0200	2.3	30.0
Toluene-d8 (Surr)	Ave	1.204	1.256		0.0209	0.0200	4.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4627	0.4715		0.0204	0.0200	1.9	30.0

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab File ID: bfb037.d BFB Injection Date: 07/25/2018
 Instrument ID: A3UX19 BFB Injection Time: 11:28
 Analysis Batch No.: 337917

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.4
75	30.0 - 60.0 % of mass 95	52.5
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	1.1 (1.3) 1
174	50.0 - 120.00 % of mass 95	82.7
175	5.0 - 9.0 % of mass 174	6.4 (7.8) 1
176	95.0 - 101.0 % of mass 174	80.3 (97.1) 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
	STDA9 240-337917/8	U1900802.d	07/25/2018	13:24
	STDA9 240-337917/9	U1900803.d	07/25/2018	13:46
	STDA9 240-337917/10	U1900804.d	07/25/2018	14:08
	STDA9 240-337917/11	U1900805.d	07/25/2018	14:30
	STDA9 240-337917/12	U1900806.d	07/25/2018	14:52
	STDA9 240-337917/13	U1900807.d	07/25/2018	15:15
	ICV 240-337917/14	U1900808.d	07/25/2018	15:37

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1 Analy Batch No.: 337917

SDG No.: _____

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 13:24 Calibration End Date: 07/25/2018 15:15 Calibration ID: 46243

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-337917/13	U1900807.d
Level 2	STDA9 240-337917/12	U1900806.d
Level 3	STDA9 240-337917/11	U1900805.d
Level 4	STDA9 240-337917/10	U1900804.d
Level 5	STDA9 240-337917/9	U1900803.d
Level 6	STDA9 240-337917/8	U1900802.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	0.0267 0.0420	0.0243	0.0339	0.0383	0.0393	Lin1	-0.123	0.0406				15.8			0.9970		0.9900
Diisopropyl ether	0.2480 0.2295	0.2266	0.2186	0.2314	0.2335	Ave		0.2313				4.2		20.0			
2-Chloro-1,3-butadiene	0.4103 0.4183	0.3468	0.3861	0.4073	0.4185	Ave		0.3979				7.0		20.0			
Ethyl-t-butyl ether (ETBE)	0.6986 0.7570	0.7116	0.6979	0.7473	0.7423	Ave		0.7258				3.6		20.0			
Ethyl acetate	0.3112 0.3333	0.2920	0.2787	0.2931	0.2963	Ave		0.3007				6.3		20.0			
Propionitrile	0.0310 0.0489	0.0345	0.0381	0.0469	0.0451	Ave		0.0408				17.8		20.0			
Methacrylonitrile	0.1725 0.1953	0.1825	0.1747	0.1831	0.1889	Ave		0.1828				4.7		20.0			
Tert-amyl-methyl ether (TAME)	0.7358 0.8075	0.7777	0.7365	0.7842	0.7786	Ave		0.7700				3.7		20.0			
n-Butanol	0.0093 0.0103	0.0088	0.0085	0.0096	0.0096	Ave		0.0094				7.2		20.0			
Ethyl acrylate	0.3503 0.4100	0.3368	0.3674	0.3811	0.3761	Ave		0.3703				6.9		20.0			
Methyl methacrylate	0.2597 0.2591	0.2305	0.2383	0.2454	0.2423	Ave		0.2459				4.7		20.0			
2-Nitropropane	0.0701 0.0817	0.0670	0.0681	0.0750	0.0735	Ave		0.0726				7.5		20.0			
n-Butyl acetate	0.5119 0.5820	0.5042	0.5279	0.5447	0.5478	Ave		0.5364				5.3		20.0			
1-Chlorohexane	0.5172 0.4745	0.4432	0.4302	0.4451	0.4558	Ave		0.4610				6.8		20.0			
Cyclohexanone	0.0133 0.0157	0.0130	0.0126	0.0136	0.0138	Ave		0.0137				7.9		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.: 240-99625-1 Analy Batch No.: 337917

SDG No.: _____

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 13:24 Calibration End Date: 07/25/2018 15:15 Calibration ID: 46243

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								
Pentachloroethane	0.3347 0.3690	0.3068	0.3632	0.3574	0.3461	Ave		0.3462				6.6		20.0			
1,2,3-Trimethylbenzene	2.1501 2.3751	2.2616	2.2092	2.3745	2.2840	Ave		2.2757				3.9		20.0			
Benzyl chloride	1.0405 1.5547	1.1450	1.1839	1.3693	1.4244	Ave		1.2863				15.1		20.0			
1,3,5-Trichlorobenzene	1.0658 1.0430	1.1076	0.9448	1.0009	0.9668	Ave		1.0215				6.1		20.0			
2-Methylnaphthalene	1.2994 1.8015	1.3689	1.2543	1.3185	1.5534	Ave		1.4327				14.6		20.0			
1-Chloro-1-fluoroethane TIC	0.2622 0.2664	0.2640	0.2502	0.2645	0.2646	Ave		0.2620				2.3		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.: 240-99625-1
SDG No.: _____
Lab Sample ID: ICV 240-337917/14 Calibration Date: 07/25/2018 15:37
Instrument ID: A3UX19 Calib Start Date: 07/24/2018 17:50
GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/24/2018 20:04
Lab File ID: U1900808.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
Dibromofluoromethane (Surr)	Ave	0.2589	0.2758		0.0213	0.0200	6.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2744	0.2888		0.0211	0.0200	5.3	30.0
Toluene-d8 (Surr)	Ave	1.204	1.258		0.0209	0.0200	4.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4627	0.4749		0.0205	0.0200	2.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: ICV 240-337917/14 Calibration Date: 07/25/2018 15:37
 Instrument ID: A3UX19 Calib Start Date: 07/25/2018 13:24
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 15:15
 Lab File ID: U1900808.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Lin1		0.0327		0.164	0.200	-17.8	30.0
Diisopropyl ether	Ave	0.2313	0.2381		0.0206	0.0200	3.0	30.0
2-Chloro-1,3-butadiene	Ave	0.3979	0.4016		0.0202	0.0200	0.9	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7258	0.7451		0.0205	0.0200	2.7	30.0
Ethyl acetate	Ave	0.3007	0.2753		0.0366	0.0400	-8.5	50.0
Propionitrile	Ave	0.0408	0.0395		0.194	0.200	-3.0	30.0
Methacrylonitrile	Ave	0.1828	0.1926		0.211	0.200	5.3	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.7700	0.7828		0.0203	0.0200	1.7	30.0
n-Butanol	Ave	0.0094	0.0086		0.457	0.500	-8.6	30.0
Ethyl acrylate	Ave	0.3703	0.3736		0.0202	0.0200	0.9	30.0
Methyl methacrylate	Ave	0.2459	0.2495		0.0406	0.0400	1.5	30.0
2-Nitropropane	Ave	0.0726	0.0727		0.0400	0.0400	0.1	30.0
n-Butyl acetate	Ave	0.5364	0.5464		0.0204	0.0200	1.9	30.0
1-Chlorohexane	Ave	0.4610	0.4451		0.0193	0.0200	-3.4	30.0
Cyclohexanone	Ave	0.0137	0.0138		0.202	0.200	1.0	30.0
Pentachloroethane	Ave	0.3462	0.3376		0.0390	0.0400	-2.5	30.0
1,2,3-Trimethylbenzene	Ave	2.276	2.407		0.0212	0.0200	5.8	30.0
Benzyl chloride	Ave	1.286	1.208		0.0188	0.0200	-6.1	30.0
1,3,5-Trichlorobenzene	Ave	1.021	1.003		0.0196	0.0200	-1.8	30.0
2-Methylnaphthalene	Ave	1.433	1.388		0.0388	0.0400	-3.1	30.0

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Lab File ID: bfb048.d BFB Injection Date: 08/13/2018
Instrument ID: A3UX19 BFB Injection Time: 16:17
Analysis Batch No.: 340666

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.5
75	30.0 - 60.0 % of mass 95	51.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	1.2 (1.4) 1
174	50.0 - 120.00 % of mass 95	82.9
175	5.0 - 9.0 % of mass 174	6.5 (7.8) 1
176	95.0 - 101.0 % of mass 174	80.5 (97.1) 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
	CCV 240-340666/2	U1901048.d	08/13/2018	16:51
	CCVIS 240-340666/3	U1901049.d	08/13/2018	17:14
	LCS 240-340666/4	U1901050.d	08/13/2018	17:36
	MB 240-340666/6	U1901052.d	08/13/2018	18:21
MSA-SW41B-080718	240-99625-18	U1901053.d	08/13/2018	18:43
MSA-SW41C-080718	240-99625-19	U1901054.d	08/13/2018	19:05
MSA-SW41D-080718	240-99625-20	U1901055.d	08/13/2018	19:27
MSA-SW42A-080718	240-99625-21	U1901056.d	08/13/2018	19:50
MSA-SW42B-080718	240-99625-22	U1901057.d	08/13/2018	20:12
MSA-SW42C-080718	240-99625-23	U1901058.d	08/13/2018	20:34
MSA-SW42D-080718	240-99625-24	U1901059.d	08/13/2018	20:57
MSA-SW43A-080718	240-99625-25	U1901060.d	08/13/2018	21:19
MSA-SW43B-080718	240-99625-26	U1901061.d	08/13/2018	21:41
MSA-SW43C-080718	240-99625-27	U1901062.d	08/13/2018	22:03
MSA-SW43D-080718	240-99625-28	U1901063.d	08/13/2018	22:26
MSA-SW44A-080718	240-99625-29	U1901064.d	08/13/2018	22:48
MSA-SW44B-080718	240-99625-30	U1901065.d	08/13/2018	23:10
MSA-SW44C-080718	240-99625-31	U1901066.d	08/13/2018	23:32
MSA-SW44D-080718	240-99625-32	U1901067.d	08/13/2018	23:54
MSA-SW45A-080718	240-99625-33	U1901068.d	08/14/2018	00:16
MSA-SW45B-080718	240-99625-34	U1901069.d	08/14/2018	00:39
MSA-SW45C-080718	240-99625-35	U1901070.d	08/14/2018	01:01
MSA-SW45D-080718	240-99625-36	U1901071.d	08/14/2018	01:23
EL-SW01A-080718	240-99625-37	U1901072.d	08/14/2018	01:45

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: CCV 240-340666/2 Calibration Date: 08/13/2018 16:51
 Instrument ID: A3UX19 Calib Start Date: 07/25/2018 13:24
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 15:15
 Lab File ID: U1901048.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Lin1		0.0283		0.142	0.200	-28.9*	20.0
Diisopropyl ether	Ave	0.2313	0.2185		0.0189	0.0200	-5.5	20.0
2-Chloro-1,3-butadiene	Ave	0.3979	0.3807		0.0191	0.0200	-4.3	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7258	0.6996		0.0193	0.0200	-3.6	20.0
Ethyl acetate	Ave	0.3007	0.2877		0.0383	0.0400	-4.3	50.0
Propionitrile	Ave	0.0408	0.0437		0.214	0.200	7.2	20.0
Methacrylonitrile	Ave	0.1828	0.1807		0.198	0.200	-1.2	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.7700	0.7498		0.0195	0.0200	-2.6	20.0
n-Butanol	Ave	0.0094	0.0126		0.673	0.500	34.5*	20.0
Ethyl acrylate	Ave	0.3703	0.3465		0.0187	0.0200	-6.4	20.0
Methyl methacrylate	Ave	0.2459	0.2211		0.0360	0.0400	-10.1	20.0
2-Nitropropane	Ave	0.0726	0.0744		0.0410	0.0400	2.5	20.0
n-Butyl acetate	Ave	0.5364	0.5604		0.0209	0.0200	4.5	20.0
1-Chlorohexane	Ave	0.4610	0.4498		0.0195	0.0200	-2.4	20.0
Cyclohexanone	Ave	0.0137	0.0167		0.244	0.200	22.2*	20.0
Pentachloroethane	Ave	0.3462	0.4429		0.0512	0.0400	27.9*	20.0
1,2,3-Trimethylbenzene	Ave	2.276	2.323		0.0204	0.0200	2.1	20.0
Benzyl chloride	Ave	1.286	1.496		0.0233	0.0200	16.3	20.0
1,3,5-Trichlorobenzene	Ave	1.021	0.9076		0.0178	0.0200	-11.1	20.0
2-Methylnaphthalene	Ave	1.433	1.372		0.0383	0.0400	-4.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Lab Sample ID: CCVIS 240-340666/3 Calibration Date: 08/13/2018 17:14

Instrument ID: A3UX19 Calib Start Date: 07/24/2018 17:50

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/24/2018 20:04

Lab File ID: U1901049.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	0.3480	0.3798	0.1000	0.0218	0.0200	9.1	20.0
Chloromethane	Ave	0.3370	0.3079	0.1000	0.0183	0.0200	-8.6	20.0
Butadiene	Ave	0.3278	0.3217		0.0196	0.0200	-1.8	20.0
Vinyl chloride	Ave	0.3260	0.3272	0.1000	0.0201	0.0200	0.4	20.0
Bromomethane	Ave	0.2452	0.2270	0.0500	0.0185	0.0200	-7.4	20.0
Chloroethane	Ave	0.1982	0.1889	0.0500	0.0191	0.0200	-4.7	20.0
Dichlorofluoromethane	Ave	0.4675	0.4506		0.0193	0.0200	-3.6	20.0
Trichlorofluoromethane	Ave	0.4423	0.4676	0.1000	0.0211	0.0200	5.7	20.0
Ethyl ether	Ave	0.1987	0.1880		0.0189	0.0200	-5.4	20.0
Acrolein	Ave	0.0522	0.0528		0.101	0.100	1.3	50.0
1,1-Dichloroethene	Ave	0.3788	0.3503	0.1000	0.0185	0.0200	-7.5	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2702	0.2636	0.0500	0.0195	0.0200	-2.4	20.0
Acetone	Ave	0.0659	0.0721	0.0100	0.0438	0.0400	9.5	50.0
Iodomethane	Ave	0.4686	0.4637		0.0198	0.0200	-1.0	20.0
Carbon disulfide	Ave	0.8465	0.7418	0.1000	0.0175	0.0200	-12.4	20.0
3-Chloro-1-propene	Ave	0.3969	0.3549		0.0179	0.0200	-10.6	20.0
Methyl acetate	Ave	0.2266	0.2213	0.1000	0.0391	0.0400	-2.3	20.0
Methylene Chloride	Ave	0.3024	0.2784	0.1000	0.0184	0.0200	-7.9	50.0
tert-Butyl alcohol	Ave	0.0246	0.0253		0.205	0.200	2.5	50.0
Acrylonitrile	Ave	0.1023	0.1021		0.200	0.200	-0.2	20.0
trans-1,2-Dichloroethene	Ave	0.3728	0.3352	0.1000	0.0180	0.0200	-10.1	20.0
Methyl tert-butyl ether	Ave	0.6946	0.6823	0.1000	0.0196	0.0200	-1.8	20.0
Hexane	Ave	0.4069	0.3802		0.0187	0.0200	-6.6	20.0
1,1-Dichloroethane	Ave	0.4395	0.4078	0.2000	0.0186	0.0200	-7.2	20.0
Vinyl acetate	Ave	0.3997	0.4013		0.0201	0.0200	0.4	50.0
2-Butanone	Ave	0.0376	0.0442	0.0100	0.0471	0.0400	17.7	20.0
cis-1,2-Dichloroethene	Ave	0.3082	0.2951	0.1000	0.0191	0.0200	-4.3	20.0
2,2-Dichloropropane	Ave	0.2643	0.2630		0.0199	0.0200	-0.5	20.0
Bromochloromethane	Ave	0.2027	0.1794		0.0177	0.0200	-11.5	20.0
Tetrahydrofuran	Ave	0.0971	0.0975		0.0401	0.0400	0.3	20.0
Chloroform	Ave	0.4561	0.4244	0.2000	0.0186	0.0200	-7.0	20.0
1,1,1-Trichloroethane	Ave	0.4108	0.3958	0.1000	0.0193	0.0200	-3.7	20.0
Cyclohexane	Ave	0.4301	0.4133	0.1000	0.0192	0.0200	-3.9	20.0
1,1-Dichloropropene	Ave	0.3737	0.3498		0.0187	0.0200	-6.4	20.0
Carbon tetrachloride	Ave	0.3825	0.3667	0.1000	0.0192	0.0200	-4.1	20.0
Isobutyl alcohol	Ave	0.0088	0.0096		0.545	0.500	8.9	20.0
Benzene	Ave	1.026	0.9758	0.5000	0.0190	0.0200	-4.9	20.0
1,2-Dichloroethane	Ave	0.3296	0.3008	0.1000	0.0182	0.0200	-8.8	20.0
n-Heptane	Lin1		0.2227		0.0180	0.0200	-9.8	20.0
Trichloroethene	Ave	0.3160	0.3066	0.1500	0.0194	0.0200	-3.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Lab Sample ID: CCVIS 240-340666/3 Calibration Date: 08/13/2018 17:14

Instrument ID: A3UX19 Calib Start Date: 07/24/2018 17:50

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/24/2018 20:04

Lab File ID: U1901049.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	0.5132	0.4867	0.1000	0.0190	0.0200	-5.2	20.0
1,2-Dichloropropane	Ave	0.2304	0.2218	0.1000	0.0193	0.0200	-3.7	20.0
Dibromomethane	Ave	0.2132	0.2073		0.0194	0.0200	-2.8	20.0
1,4-Dioxane	Ave	0.0023	0.0025		0.447	0.400	11.9	50.0
Bromodichloromethane	Ave	0.3229	0.3058	0.1500	0.0189	0.0200	-5.3	20.0
2-Chloroethyl vinyl ether	Ave	0.1713	0.1655		0.0386	0.0400	-3.4	20.0
cis-1,3-Dichloropropene	Ave	0.3777	0.3623	0.1500	0.0192	0.0200	-4.1	20.0
4-Methyl-2-pentanone	Ave	0.3059	0.3027	0.0500	0.0396	0.0400	-1.1	20.0
Toluene	Ave	1.425	1.356	0.4000	0.0190	0.0200	-4.8	20.0
trans-1,3-Dichloropropene	Ave	0.4580	0.4218	0.1000	0.0184	0.0200	-7.9	20.0
Ethyl methacrylate	Ave	0.4341	0.4342		0.0200	0.0200	0.0	20.0
1,1,2-Trichloroethane	Ave	0.2792	0.2801	0.1000	0.0201	0.0200	0.3	20.0
Tetrachloroethene	Ave	0.4212	0.4290	0.1500	0.0204	0.0200	1.9	20.0
1,3-Dichloropropane	Ave	0.4860	0.4633		0.0191	0.0200	-4.7	20.0
2-Hexanone	Ave	0.2924	0.3039	0.0500	0.0416	0.0400	3.9	20.0
Dibromochloromethane	Ave	0.3337	0.3332		0.0200	0.0200	-0.2	20.0
1,2-Dibromoethane	Ave	0.3190	0.3145		0.0197	0.0200	-1.4	20.0
Chlorobenzene	Ave	0.9526	0.9067	0.3000	0.0190	0.0200	-4.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3270	0.3289		0.0201	0.0200	0.6	20.0
Ethylbenzene	Ave	0.5073	0.4960		0.0196	0.0200	-2.2	20.0
m-Xylene & p-Xylene	Ave	0.6262	0.6001		0.0192	0.0200	-4.2	20.0
o-Xylene	Ave	0.6047	0.5908		0.0195	0.0200	-2.3	20.0
Styrene	Ave	1.003	0.9660	0.3000	0.0193	0.0200	-3.7	20.0
Bromoform	Ave	0.2668	0.2621	0.1000	0.0196	0.0200	-1.8	20.0
Isopropylbenzene	Ave	1.600	1.573	0.1000	0.0197	0.0200	-1.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7972	0.7607	0.3000	0.0191	0.0200	-4.6	20.0
Bromobenzene	Ave	0.7555	0.7328		0.0194	0.0200	-3.0	20.0
1,2,3-Trichloropropane	Ave	0.2823	0.2734		0.0194	0.0200	-3.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2445	0.2193		0.0179	0.0200	-10.3	20.0
n-Propylbenzene	Ave	0.8001	0.7847		0.0196	0.0200	-1.9	20.0
2-Chlorotoluene	Ave	0.6883	0.6740		0.0196	0.0200	-2.1	20.0
1,3,5-Trimethylbenzene	Ave	2.265	2.249		0.0199	0.0200	-0.7	20.0
4-Chlorotoluene	Ave	0.7201	0.6856		0.0190	0.0200	-4.8	20.0
tert-Butylbenzene	Ave	2.177	2.168		0.0199	0.0200	-0.4	20.0
1,2,4-Trimethylbenzene	Ave	2.350	2.255		0.0192	0.0200	-4.0	20.0
sec-Butylbenzene	Ave	3.008	2.972		0.0198	0.0200	-1.2	20.0
1,3-Dichlorobenzene	Ave	1.464	1.363	0.6000	0.0186	0.0200	-6.9	20.0
p-Isopropyltoluene	Ave	2.580	2.570		0.0199	0.0200	-0.4	20.0
1,4-Dichlorobenzene	Ave	1.519	1.361	0.5000	0.0179	0.0200	-10.4	20.0
n-Butylbenzene	Ave	2.228	2.118		0.0190	0.0200	-4.9	20.0
1,2-Dichlorobenzene	Ave	1.339	1.244	0.4000	0.0186	0.0200	-7.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-340666/3 Calibration Date: 08/13/2018 17:14
 Instrument ID: A3UX19 Calib Start Date: 07/24/2018 17:50
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/24/2018 20:04
 Lab File ID: U1901049.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	0.2375	0.2341	0.0500	0.0197	0.0200	-1.4	50.0
1,2,4-Trichlorobenzene	Ave	0.9196	0.8274	0.2000	0.0180	0.0200	-10.0	50.0
Hexachlorobutadiene	Ave	0.4800	0.4545		0.0189	0.0200	-5.3	20.0
Naphthalene	Ave	2.594	2.379		0.0183	0.0200	-8.3	50.0
1,2,3-Trichlorobenzene	Ave	0.8316	0.7273		0.0175	0.0200	-12.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2589	0.2709		0.0209	0.0200	4.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2744	0.2821		0.0206	0.0200	2.8	20.0
Toluene-d8 (Surr)	Ave	1.204	1.259		0.0209	0.0200	4.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4627	0.4565		0.0197	0.0200	-1.3	20.0

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Lab File ID: bfb049.d BFB Injection Date: 08/14/2018
Instrument ID: A3UX19 BFB Injection Time: 17:46
Analysis Batch No.: 340909

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	54.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	1.3 (1.4) 1
174	50.0 - 120.00 % of mass 95	90.4
175	5.0 - 9.0 % of mass 174	7.4 (8.2) 1
176	95.0 - 101.0 % of mass 174	88.4 (97.8) 1
177	5.0 - 9.0 % of mass 176	5.9 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-340909/2	U1901077.d	08/14/2018	18:13
	CCVIS 240-340909/3	U1901078.d	08/14/2018	18:36
	LCS 240-340909/4	U1901079.d	08/14/2018	18:58
	MB 240-340909/6	U1901081.d	08/14/2018	19:42
EL-SW01B-080718	240-99625-38	U1901082.d	08/14/2018	20:04
EL-SW01C-080718	240-99625-39	U1901083.d	08/14/2018	20:26
EL-SW01D-080718	240-99625-40	U1901084.d	08/14/2018	20:48
TB-080718	240-99625-41	U1901085.d	08/14/2018	21:10
MSA-SW46A-080718	240-99625-42	U1901086.d	08/14/2018	21:33
MSA-SW47A-080718	240-99625-43	U1901087.d	08/14/2018	21:55
MSA-SW48A-080718	240-99625-44	U1901088.d	08/14/2018	22:17
MSA-SW49A-080718	240-99625-45	U1901089.d	08/14/2018	22:39

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: CCV 240-340909/2 Calibration Date: 08/14/2018 18:13
 Instrument ID: A3UX19 Calib Start Date: 07/25/2018 13:24
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/25/2018 15:15
 Lab File ID: U1901077.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Lin1		0.0297		0.149	0.200	-25.3*	20.0
Diisopropyl ether	Ave	0.2313	0.2076		0.0180	0.0200	-10.2	20.0
2-Chloro-1,3-butadiene	Ave	0.3979	0.3631		0.0183	0.0200	-8.7	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7258	0.6419		0.0177	0.0200	-11.6	20.0
Ethyl acetate	Ave	0.3007	0.2784		0.0370	0.0400	-7.4	50.0
Propionitrile	Ave	0.0408	0.0413		0.202	0.200	1.2	20.0
Methacrylonitrile	Ave	0.1828	0.1780		0.195	0.200	-2.7	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.7700	0.6901		0.0179	0.0200	-10.4	20.0
n-Butanol	Ave	0.0094	0.0104		0.556	0.500	11.1	20.0
Ethyl acrylate	Ave	0.3703	0.3504		0.0189	0.0200	-5.4	20.0
Methyl methacrylate	Ave	0.2459	0.2184		0.0355	0.0400	-11.2	20.0
2-Nitropropane	Ave	0.0726	0.0711		0.0392	0.0400	-2.0	20.0
n-Butyl acetate	Ave	0.5364	0.5517		0.0206	0.0200	2.9	20.0
1-Chlorohexane	Ave	0.4610	0.4458		0.0193	0.0200	-3.3	20.0
Cyclohexanone	Ave	0.0137	0.0205		0.301	0.200	50.3*	20.0
Pentachloroethane	Ave	0.3462	0.4068		0.0470	0.0400	17.5	20.0
1,2,3-Trimethylbenzene	Ave	2.276	2.195		0.0193	0.0200	-3.5	20.0
Benzyl chloride	Ave	1.286	1.334		0.0207	0.0200	3.7	20.0
1,3,5-Trichlorobenzene	Ave	1.021	0.9262		0.0181	0.0200	-9.3	20.0
2-Methylnaphthalene	Ave	1.433	1.187		0.0332	0.0400	-17.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Lab Sample ID: CCVIS 240-340909/3 Calibration Date: 08/14/2018 18:36

Instrument ID: A3UX19 Calib Start Date: 07/24/2018 17:50

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/24/2018 20:04

Lab File ID: U1901078.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	0.3480	0.3261	0.1000	0.0187	0.0200	-6.3	20.0
Chloromethane	Ave	0.3370	0.2860	0.1000	0.0170	0.0200	-15.1	20.0
Butadiene	Ave	0.3278	0.3002		0.0183	0.0200	-8.4	20.0
Vinyl chloride	Ave	0.3260	0.3108	0.1000	0.0191	0.0200	-4.7	20.0
Bromomethane	Ave	0.2452	0.2170	0.0500	0.0177	0.0200	-11.5	20.0
Chloroethane	Ave	0.1982	0.1790	0.0500	0.0181	0.0200	-9.7	20.0
Dichlorofluoromethane	Ave	0.4675	0.4178		0.0179	0.0200	-10.6	20.0
Trichlorofluoromethane	Ave	0.4423	0.4278	0.1000	0.0193	0.0200	-3.3	20.0
Ethyl ether	Ave	0.1987	0.1848		0.0186	0.0200	-7.0	20.0
Acrolein	Ave	0.0522	0.0480		0.0920	0.100	-8.0	50.0
1,1-Dichloroethene	Ave	0.3788	0.3445	0.1000	0.0182	0.0200	-9.1	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.2702	0.2564	0.0500	0.0190	0.0200	-5.1	20.0
Acetone	Ave	0.0659	0.0688	0.0100	0.0418	0.0400	4.4	50.0
Iodomethane	Ave	0.4686	0.4472		0.0191	0.0200	-4.6	20.0
Carbon disulfide	Ave	0.8465	0.7160	0.1000	0.0169	0.0200	-15.4	20.0
3-Chloro-1-propene	Ave	0.3969	0.3534		0.0178	0.0200	-11.0	20.0
Methyl acetate	Ave	0.2266	0.2133	0.1000	0.0377	0.0400	-5.8	20.0
Methylene Chloride	Ave	0.3024	0.2682	0.1000	0.0177	0.0200	-11.3	50.0
tert-Butyl alcohol	Ave	0.0246	0.0245		0.199	0.200	-0.5	50.0
Acrylonitrile	Ave	0.1023	0.1045		0.204	0.200	2.1	20.0
Methyl tert-butyl ether	Ave	0.6946	0.6676	0.1000	0.0192	0.0200	-3.9	20.0
trans-1,2-Dichloroethene	Ave	0.3728	0.3218	0.1000	0.0173	0.0200	-13.7	20.0
Hexane	Ave	0.4069	0.3890		0.0191	0.0200	-4.4	20.0
1,1-Dichloroethane	Ave	0.4395	0.4046	0.2000	0.0184	0.0200	-7.9	20.0
Vinyl acetate	Ave	0.3997	0.4997		0.0250	0.0200	25.0	50.0
cis-1,2-Dichloroethene	Ave	0.3082	0.2853	0.1000	0.0185	0.0200	-7.4	20.0
2,2-Dichloropropane	Ave	0.2643	0.2439		0.0185	0.0200	-7.7	20.0
2-Butanone	Ave	0.0376	0.0480	0.0100	0.0511	0.0400	27.6*	20.0
Bromochloromethane	Ave	0.2027	0.1823		0.0180	0.0200	-10.1	20.0
Tetrahydrofuran	Ave	0.0971	0.1040		0.0428	0.0400	7.1	20.0
Chloroform	Ave	0.4561	0.4164	0.2000	0.0183	0.0200	-8.7	20.0
1,1,1-Trichloroethane	Ave	0.4108	0.3882	0.1000	0.0189	0.0200	-5.5	20.0
Cyclohexane	Ave	0.4301	0.4123	0.1000	0.0192	0.0200	-4.1	20.0
1,1-Dichloropropene	Ave	0.3737	0.3511		0.0188	0.0200	-6.0	20.0
Carbon tetrachloride	Ave	0.3825	0.3596	0.1000	0.0188	0.0200	-6.0	20.0
Isobutyl alcohol	Ave	0.0088	0.0100		0.569	0.500	13.8	20.0
1,2-Dichloroethane	Ave	0.3296	0.3021	0.1000	0.0183	0.0200	-8.4	20.0
Benzene	Ave	1.026	0.9922	0.5000	0.0193	0.0200	-3.3	20.0
n-Heptane	Lin1		0.2309		0.0188	0.0200	-6.0	20.0
Trichloroethene	Ave	0.3160	0.3049	0.1500	0.0193	0.0200	-3.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Lab Sample ID: CCVIS 240-340909/3 Calibration Date: 08/14/2018 18:36

Instrument ID: A3UX19 Calib Start Date: 07/24/2018 17:50

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/24/2018 20:04

Lab File ID: U1901078.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	0.5132	0.4911	0.1000	0.0191	0.0200	-4.3	20.0
1,2-Dichloropropane	Ave	0.2304	0.2272	0.1000	0.0197	0.0200	-1.4	20.0
Dibromomethane	Ave	0.2132	0.2128		0.0200	0.0200	-0.2	20.0
1,4-Dioxane	Ave	0.0023	0.0029		0.508	0.400	26.9	50.0
Bromodichloromethane	Ave	0.3229	0.3127	0.1500	0.0194	0.0200	-3.2	20.0
2-Chloroethyl vinyl ether	Ave	0.1713	0.1780		0.0416	0.0400	3.9	20.0
cis-1,3-Dichloropropene	Ave	0.3777	0.3687	0.1500	0.0195	0.0200	-2.4	20.0
4-Methyl-2-pentanone	Ave	0.3059	0.3173	0.0500	0.0415	0.0400	3.7	20.0
Toluene	Ave	1.425	1.458	0.4000	0.0205	0.0200	2.3	20.0
trans-1,3-Dichloropropene	Ave	0.4580	0.4585	0.1000	0.0200	0.0200	0.1	20.0
Ethyl methacrylate	Ave	0.4341	0.4610		0.0212	0.0200	6.2	20.0
1,1,2-Trichloroethane	Ave	0.2792	0.3008	0.1000	0.0215	0.0200	7.7	20.0
Tetrachloroethene	Ave	0.4212	0.4564	0.1500	0.0217	0.0200	8.4	20.0
1,3-Dichloropropane	Ave	0.4860	0.5103		0.0210	0.0200	5.0	20.0
2-Hexanone	Ave	0.2924	0.3327	0.0500	0.0455	0.0400	13.8	20.0
Dibromochloromethane	Ave	0.3337	0.3508		0.0210	0.0200	5.1	20.0
1,2-Dibromoethane	Ave	0.3190	0.3364		0.0211	0.0200	5.5	20.0
Chlorobenzene	Ave	0.9526	0.9186	0.3000	0.0193	0.0200	-3.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3270	0.3386		0.0207	0.0200	3.6	20.0
Ethylbenzene	Ave	0.5073	0.5055		0.0199	0.0200	-0.3	20.0
m-Xylene & p-Xylene	Ave	0.6262	0.6330		0.0202	0.0200	1.1	20.0
o-Xylene	Ave	0.6047	0.5895		0.0195	0.0200	-2.5	20.0
Styrene	Ave	1.003	1.003	0.3000	0.0200	0.0200	-0.0	20.0
Bromoform	Ave	0.2668	0.2697	0.1000	0.0202	0.0200	1.1	20.0
Isopropylbenzene	Ave	1.600	1.616	0.1000	0.0202	0.0200	1.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7972	0.7829	0.3000	0.0196	0.0200	-1.8	20.0
Bromobenzene	Ave	0.7555	0.7390		0.0196	0.0200	-2.2	20.0
1,2,3-Trichloropropane	Ave	0.2823	0.2827		0.0200	0.0200	0.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2445	0.2340		0.0191	0.0200	-4.3	20.0
n-Propylbenzene	Ave	0.8001	0.7973		0.0199	0.0200	-0.3	20.0
2-Chlorotoluene	Ave	0.6883	0.6641		0.0193	0.0200	-3.5	20.0
1,3,5-Trimethylbenzene	Ave	2.265	2.216		0.0196	0.0200	-2.1	20.0
4-Chlorotoluene	Ave	0.7201	0.6980		0.0194	0.0200	-3.1	20.0
tert-Butylbenzene	Ave	2.177	2.127		0.0195	0.0200	-2.3	20.0
1,2,4-Trimethylbenzene	Ave	2.350	2.240		0.0191	0.0200	-4.7	20.0
sec-Butylbenzene	Ave	3.008	2.925		0.0195	0.0200	-2.7	20.0
1,3-Dichlorobenzene	Ave	1.464	1.353	0.6000	0.0185	0.0200	-7.6	20.0
p-Isopropyltoluene	Ave	2.580	2.521		0.0195	0.0200	-2.3	20.0
1,4-Dichlorobenzene	Ave	1.519	1.369	0.5000	0.0180	0.0200	-9.8	20.0
n-Butylbenzene	Ave	2.228	2.064		0.0185	0.0200	-7.4	20.0
1,2-Dichlorobenzene	Ave	1.339	1.235	0.4000	0.0184	0.0200	-7.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-340909/3 Calibration Date: 08/14/2018 18:36
 Instrument ID: A3UX19 Calib Start Date: 07/24/2018 17:50
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 07/24/2018 20:04
 Lab File ID: U1901078.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	0.2375	0.2195	0.0500	0.0185	0.0200	-7.6	50.0
1,2,4-Trichlorobenzene	Ave	0.9196	0.7700	0.2000	0.0167	0.0200	-16.3	50.0
Hexachlorobutadiene	Ave	0.4800	0.4332		0.0180	0.0200	-9.8	20.0
Naphthalene	Ave	2.594	2.198		0.0169	0.0200	-15.3	50.0
1,2,3-Trichlorobenzene	Ave	0.8316	0.6887		0.0166	0.0200	-17.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2589	0.2575		0.0199	0.0200	-0.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2744	0.2712		0.0198	0.0200	-1.2	20.0
Toluene-d8 (Surr)	Ave	1.204	1.318		0.0219	0.0200	9.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4627	0.4665		0.0202	0.0200	0.8	20.0

COVER PAGE
METALS

Lab Name: TestAmerica Canton

Job Number: 240-99625-1

SDG No.:

Project: MSA Surface Water

Client Sample ID

MSA-SW37A-080718

MSA-SW37B-080718

MSA-SW37C-080718

MSA-SW37D-080718

MSA-SW38A-080718

MSA-SW38B-080718

MSA-SW38C-080718

MSA-SW38D-080718

MSA-SW39A-080718

MSA-SW39B-080718

MSA-SW39C-080718

MSA-SW39D-080718

MSA-SW40A-080718

MSA-SW40B-080718

MSA-SW40C-080718

MSA-SW40D-080718

MSA-SW41A-080718

MSA-SW41B-080718

MSA-SW41C-080718

MSA-SW41D-080718

MSA-SW42A-080718

MSA-SW42B-080718

MSA-SW42C-080718

MSA-SW42D-080718

MSA-SW43A-080718

MSA-SW43B-080718

MSA-SW43C-080718

MSA-SW43D-080718

MSA-SW44A-080718

MSA-SW44B-080718

MSA-SW44C-080718

MSA-SW44D-080718

MSA-SW45A-080718

MSA-SW45B-080718

MSA-SW45C-080718

MSA-SW45D-080718

Lab Sample ID

240-99625-1

240-99625-2

240-99625-3

240-99625-4

240-99625-5

240-99625-6

240-99625-7

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240-99625-35

240-99625-36

Comments:

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton

Job Number: 240-99625-1

SDG Number: _____

Matrix: Water

Instrument ID: I10

Method: 6020

MDL Date: 04/27/2017 13:23

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Antimony	121.00	2	0.57
Arsenic	75.00	5	0.75
Barium	137.00	5	2.23
Beryllium	9.00	1	0.305
Cadmium	111.00	1	0.212
Chromium	52.00	2	0.98
Cobalt	59.00	1	0.19
Copper	65.00	2	1.7
Lead	208.00	1	0.45
Molybdenum	95.00	5	1.08
Nickel	60.00	2	1.47
Selenium	78.00	5	0.89
Silver	107.00	1	0.053
Thallium	205.00	1	0.2
Tungsten	182.00	10	1.78
Vanadium	51.00	5	0.82
Zinc	66.00	20	15

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton

Job Number: 240-99625-1

SDG Number: _____

Matrix: Water

Instrument ID: I10

Method: 6020

XMDL Date: 04/27/2017 13:25

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony	121.00	2	0.57
Arsenic	75.00	5	0.75
Barium	137.00	5	2.23
Beryllium	9.00	1	0.305
Cadmium	111.00	1	0.212
Chromium	52.00	2	0.98
Cobalt	59.00	1	0.19
Copper	65.00	2	1.7
Lead	208.00	1	0.45
Molybdenum	95.00	5	1.08
Nickel	60.00	2	1.47
Selenium	78.00	5	0.89
Silver	107.00	1	0.053
Thallium	205.00	1	0.2
Tungsten	182.00	10	1.78
Vanadium	51.00	5	0.82
Zinc	66.00	20	15

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-99625-1
SDG Number: _____
Matrix: Water Instrument ID: H2
Method: 7470A MDL Date: 02/22/2017 15:12
Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury	253.7	0.2	0.13

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton Job Number: 240-99625-1
SDG Number: _____
Matrix: Water Instrument ID: H2
Method: 7470A XMDL Date: 02/22/2017 15:12

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.13

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Canton

Job Number: 240-99625-1

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: 240-99625-1

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

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton

Job No: 240-99625-1

SDG No.: _____

Instrument ID: I10

Date: 03/28/2018 15:06

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Antimony		200	6020
Arsenic		10000	6020
Barium		10000	6020
Beryllium		2000	6020
Cadmium		4000	6020
Chromium		10000	6020
Cobalt		5000	6020
Copper		10000	6020
Lead		4000	6020
Molybdenum		2000	6020
Nickel		10000	6020
Selenium		10000	6020
Silver		300	6020
Thallium		2000	6020
Vanadium		10000	6020
Zinc		10000	6020
Tungsten		2500	6020

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton

Job No: 240-99625-1

SDG No.: _____

Instrument ID: H2

Date: 05/15/2016 09:06

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		10	7470A

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG No.: _____

Instrument ID: I10

Analysis Method: 6020

Start Date: 08/16/2018 17:48

End Date: 08/17/2018 05:04

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			17:48																										
ICIS 240-341396/2			17:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
STD1 240-341396/3 IC	1		17:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
STD2 240-341396/4 IC	1		18:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
STD3 240-341396/5 IC	1		18:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
STD4 240-341396/6 IC	1		18:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ICV 240-341396/7	1		18:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ICB 240-341396/8	1		18:19	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X								
ICVL 240-341396/9	1		18:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ICSA 240-341396/10	1		18:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
ICSAB 240-341396/11	1		18:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
CCV 240-341396/12			18:38																										
CCB 240-341396/13			18:42																										
ZZZZZZ			18:47																										
ZZZZZZ			18:51																										
ZZZZZZ			18:56																										
ZZZZZZ			19:00																										
ZZZZZZ			19:05																										
ZZZZZZ			19:09																										
ZZZZZZ			19:14																										
ZZZZZZ			19:18																										
ZZZZZZ			19:23																										
ZZZZZZ			19:27																										
CCV 240-341396/24			19:32																										
CCB 240-341396/25			19:36																										
ZZZZZZ			19:41																										
ZZZZZZ			19:45																										
ZZZZZZ			19:49																										
ZZZZZZ			19:54																										
ZZZZZZ			19:58																										
ZZZZZZ			20:03																										
ZZZZZZ			20:07																										
ZZZZZZ			20:12																										
ZZZZZZ			20:16																										
ZZZZZZ			20:21																										
CCV 240-341396/36			20:25																										
CCB 240-341396/37			20:30																										
CCVL 240-341396/38			20:34																										
ZZZZZZ			20:39																										
ZZZZZZ			20:43																										
ZZZZZZ			20:48																										
ZZZZZZ			20:52																										

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Instrument ID: I10 Analysis Method: 6020
 Start Date: 08/16/2018 17:48 End Date: 08/17/2018 05:04

Lab Sample Id	D/F	Type	Time	Analytes																									
				A	A	B	B	C	C	C	C	M	M	N	P	S	S	T	V	W	Z								
ZZZZZZ			20:57																										
ZZZZZZ			21:01																										
ZZZZZZ			21:06																										
ZZZZZZ			21:10																										
ZZZZZZ			21:15																										
CCV 240-341396/48			21:19																										
CCB 240-341396/49			21:23																										
ZZZZZZ			21:28																										
ZZZZZZ			21:32																										
ZZZZZZ			21:37																										
ZZZZZZ			21:41																										
ZZZZZZ			21:46																										
ZZZZZZ			21:50																										
ZZZZZZ			21:55																										
ZZZZZZ			21:59																										
ZZZZZZ			22:04																										
ZZZZZZ			22:08																										
CCV 240-341396/60			22:13																										
CCB 240-341396/61			22:17																										
CCVL 240-341396/62			22:22																										
ZZZZZZ			22:26																										
ZZZZZZ			22:31																										
ZZZZZZ			22:35																										
ZZZZZZ			22:40																										
ZZZZZZ			22:44																										
ZZZZZZ			22:49																										
ZZZZZZ			22:53																										
ZZZZZZ			22:57																										
ZZZZZZ			23:02																										
CCV 240-341396/72			23:06																										
CCB 240-341396/73			23:11																										
ZZZZZZ			23:15																										
ZZZZZZ			23:20																										
ZZZZZZ			23:24																										
CCV 240-341396/77		1	23:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CCB 240-341396/78		1	23:33	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
CCVL 240-341396/79			23:38																										
ZZZZZZ			23:42																										
ZZZZZZ			23:47																										
ZZZZZZ			23:51																										
ZZZZZZ			23:55																										
ZZZZZZ			00:00																										

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG No.: _____

Instrument ID: I10

Analysis Method: 6020

Start Date: 08/16/2018 17:48

End Date: 08/17/2018 05:04

Lab Sample Id	D/F	Type	Time	Analytes																					
				A	A	B	B	C	C	C	C	C	M	M	N	P	S	S	T	V	W	Z			
ZZZZZZ			00:05																						
MB 240-340095/1-A	1	R	00:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCS 240-340095/2-A	1	R	00:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			00:18																						
CCV 240-341396/89	1		00:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 240-341396/90	1		00:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			00:31																						
ZZZZZZ			00:36																						
ZZZZZZ			00:40																						
ZZZZZZ			00:45																						
ZZZZZZ			00:49																						
240-99625-21	1	D	00:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-22	1	D	00:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-23	1	D	01:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-24	1	D	01:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-25	1	D	01:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 240-341396/101	1		01:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 240-341396/102	1		01:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-26	1	D	01:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-27	1	D	01:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-28	1	D	01:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-29	1	D	01:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-30	1	D	01:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-31	1	D	01:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-32	1	D	01:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-33	1	D	01:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-34	1	D	02:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-35	1	D	02:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 240-341396/113	1		02:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 240-341396/114	1		02:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
240-99625-36	1	D	02:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			02:23																						
ZZZZZZ			02:28																						
ZZZZZZ			02:32																						
ZZZZZZ			02:37																						
ZZZZZZ			02:41																						
ZZZZZZ			02:46																						
ZZZZZZ			02:50																						
ZZZZZZ			02:55																						
ZZZZZZ			02:59																						
CCV 240-341396/125	1		03:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 240-341396/126	1		03:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Instrument ID: I10 Analysis Method: 6020
 Start Date: 08/16/2018 17:48 End Date: 08/17/2018 05:04

Lab Sample Id	D/F	Type	Time	Analytes																									
				A	A	B	B	C	C	C	C	C	M	M	N	P	S	S	T	V	W	Z							
ZZZZZZ			03:13																										
ZZZZZZ			03:17																										
ZZZZZZ			03:22																										
ZZZZZZ			03:26																										
ZZZZZZ			03:30																										
ZZZZZZ			03:35																										
ZZZZZZ			03:39																										
ZZZZZZ			03:44																										
ZZZZZZ			03:48																										
ZZZZZZ			03:53																										
CCV 240-341396/137			03:57																										
CCB 240-341396/138			04:02																										
ZZZZZZ			04:06																										
ZZZZZZ			04:11																										
ZZZZZZ			04:15																										
ZZZZZZ			04:20																										
ZZZZZZ			04:24																										
ZZZZZZ			04:29																										
ZZZZZZ			04:33																										
ZZZZZZ			04:38																										
ZZZZZZ			04:42																										
CCV 240-341396/148			04:47																										
CCB 240-341396/149			04:51																										
CCVL 240-341396/150			04:56																										
CCV 240-341396/151			05:00																										
CCB 240-341396/152			05:04																										

Prep Types: _____
 D = Dissolved
 R = Total Recoverable

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

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG No.: _____

ICP-MS Instrument ID: I10

Start Date: 08/16/2018 End Date: 08/17/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc/1	Q	Element Sc/2	Q	Element Rh	Q	Element In	Q
STD1 240-341396/3 IC	17:57	98		95		97		96		97	
STD2 240-341396/4 IC	18:01	99		94		96		90		92	
STD3 240-341396/5 IC	18:06	98		93		95		87		88	
STD4 240-341396/6 IC	18:10	100		96		95		96		96	
ICV 240-341396/7	18:15	101		94		96		90		91	
ICB 240-341396/8	18:19	98		96		97		96		95	
ICVL 240-341396/9	18:24	99		95		96		95		96	
ICSA 240-341396/10	18:29	83		89		89		83		85	
ICSAB 240-341396/11	18:33	81		88		89		84		86	
CCV 240-341396/77	23:29	82		77		78		81		82	
CCB 240-341396/78	23:33	88		80		82		88		89	
MB 240-340095/1-A	00:09	77		78		78		84		83	
LCS 240-340095/2-A	00:13	71		75		78		80		80	
CCV 240-341396/89	00:22	81		80		74		84		85	
CCB 240-341396/90	00:27	89		80		78		88		88	
240-99625-21	00:54	71		76		79		76		78	
240-99625-22	00:58	75		76		79		76		78	
240-99625-23	01:03	74		76		79		76		79	
240-99625-24	01:07	75		77		78		76		78	
240-99625-25	01:12	75		77		78		76		78	
CCV 240-341396/101	01:16	86		79		77		82		85	
CCB 240-341396/102	01:21	90		81		78		88		89	
240-99625-26	01:25	77		73		81		73		75	
240-99625-27	01:29	77		77		80		77		79	
240-99625-28	01:34	78		75		79		73		75	
240-99625-29	01:38	84		76		92		75		78	
240-99625-30	01:43	75		76		78		75		78	
240-99625-31	01:47	77		77		76		76		79	
240-99625-32	01:52	89		75		104		73		76	
240-99625-33	01:56	76		72		76		71		74	
240-99625-34	02:01	77		74		77		72		75	
240-99625-35	02:05	76		75		76		73		76	
CCV 240-341396/113	02:10	92		77		88		79		81	
CCB 240-341396/114	02:14	89		80		72		84		85	
240-99625-36	02:19	78		72		76		70		73	
CCV 240-341396/125	03:04	78		76		75		78		80	
CCB 240-341396/126	03:08	84		77		75		84		83	

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

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG No.: _____

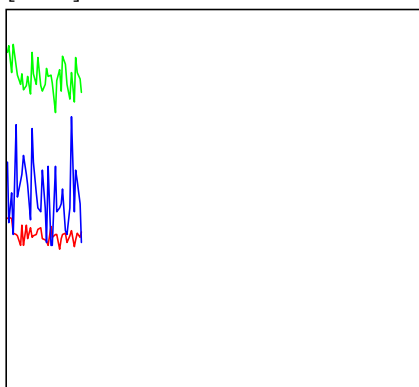
ICP-MS Instrument ID: I10

Start Date: 08/16/2018 End Date: 08/17/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 240-341396/3 IC	17:57	97		97		95					
STD2 240-341396/4 IC	18:01	94		92		89					
STD3 240-341396/5 IC	18:06	88		88		79					
STD4 240-341396/6 IC	18:10	92		92		88					
ICV 240-341396/7	18:15	90		90		83					
ICB 240-341396/8	18:19	94		94		88					
ICVL 240-341396/9	18:24	92		91		87					
ICSA 240-341396/10	18:29	86		87		80					
ICSAB 240-341396/11	18:33	87		88		81					
CCV 240-341396/77	23:29	89		89		88					
CCB 240-341396/78	23:33	93		94		98					
MB 240-340095/1-A	00:09	87		88		89					
LCS 240-340095/2-A	00:13	86		87		89					
CCV 240-341396/89	00:22	91		92		91					
CCB 240-341396/90	00:27	91		92		95					
240-99625-21	00:54	85		85		81					
240-99625-22	00:58	85		86		80					
240-99625-23	01:03	85		86		80					
240-99625-24	01:07	85		86		82					
240-99625-25	01:12	84		84		80					
CCV 240-341396/101	01:16	90		90		90					
CCB 240-341396/102	01:21	91		92		93					
240-99625-26	01:25	80		80		76					
240-99625-27	01:29	85		84		79					
240-99625-28	01:34	81		81		76					
240-99625-29	01:38	83		83		77					
240-99625-30	01:43	82		83		78					
240-99625-31	01:47	84		85		78					
240-99625-32	01:52	81		82		75					
240-99625-33	01:56	79		80		76					
240-99625-34	02:01	79		79		73					
240-99625-35	02:05	82		82		76					
CCV 240-341396/113	02:10	84		85		83					
CCB 240-341396/114	02:14	87		87		87					
240-99625-36	02:19	77		78		74					
CCV 240-341396/125	03:04	82		81		76					
CCB 240-341396/126	03:08	83		83		85					

Current Signal

[NoGas]



Mass	Range	Count	Avg. Count	RSD [%]
7	5000	2083	2047.9	4.98
89	2000	1572	1654.2	5.00
205	100	39	51.6	17.14
156/140	2	1.584 %	0.994 %	47.33
27	50000	39436	39520.2	4.38
11	5000	2767	2650.1	4.65
70/140	20	11.880 %	14.839 %	15.44
56	500000	343121	355319.0	3.27
52	2000	1492	1506.2	4.84
Integration Time [sec]		0.10		

Tune Parameters

Plasma Parameters

RF Power	1600	W	Carrier Gas	0.50	L/min	S/C Temp	2	°C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.60	L/min

Lenses Parameters

Extract 1	0.0	V	Omega Lens	7.4	V	Deflect	17.2	V
Extract 2	-100.0	V	Cell Entrance	-50	V	Plate Bias	-60	V
Omega Bias	-70	V	Cell Exit	-70	V			

Cell Parameters

Use Gas	false		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
He Flow	0.0	mL/min	OctP Bias	-10.0	V			
H2 Flow	0.0	mL/min	OctP RF	180	V			

Qpole Parameters

Mass Gain	132		Axis Gain	1.0008		QP Bias	-6.0	V
Mass Offset	124		Axis Offset	0.20				

Torch Axis Parameters

Torch H	-0.8	mm	Torch V	-0.1	mm			

EM Parameters

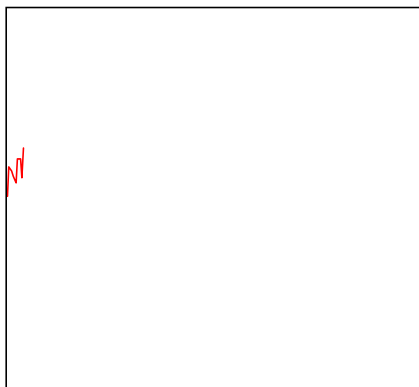
Discriminator	4.5	mV	Analog HV	1769	V	Pulse HV	1454	V

Meters

IF/BK Press	2.08E+2	Pa	S/C Temp (L)	1.9	°C	He Gas	0.12	mL/min
Analyzer Press	8.16E-5	Pa	Carrier Gas(BP)	1.21E+2	kPa			

Current Signal

[He]



Mass	Range	Count	Avg. Count	RSD [%]
59	1000	631	572.9	6.67
51/59	50	34.069 %	34.259 %	8.85
52	100	61	65.8	15.07
78	50	15	14.2	27.63
63	200	84	91.2	13.05
56	5000	2172	2132.0	2.96
23	5000	2348	2290.1	2.44
208	20	5	6.0	49.30
89	500	410	436.2	7.88
140	200	178	168.2	7.30
205	50	24	20.2	50.78
51	500	215	195.9	8.98
Integration Time [sec]		0.10		

Tune Parameters

Plasma Parameters

RF Power	1600	W	Carrier Gas	0.50	L/min	S/C Temp	2	°C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.60	L/min

Lenses Parameters

Extract 1	0.0	V	Omega Lens	7.4	V	Deflect	-2.0	V
Extract 2	-100.0	V	Cell Entrance	-50	V	Plate Bias	-60	V
Omega Bias	-70	V	Cell Exit	-70	V			

Cell Parameters

Use Gas	true		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
He Flow	4.0	mL/min	OctP Bias	-20.0	V			
H2 Flow	0.0	mL/min	OctP RF	190	V			

Qpole Parameters

Mass Gain	132		Axis Gain	1.0008		QP Bias	-16.0	V
Mass Offset	124		Axis Offset	0.20				

Torch Axis Parameters

Torch H	-0.8	mm	Torch V	-0.1	mm

EM Parameters

Discriminator	4.5	mV	Analog HV	1769	V	Pulse HV	1454	V

Meters

IF/BK Press	2.09E+2	Pa	S/C Temp (L)	1.9	°C	He Gas	4.00	mL/min
Analyzer Press	1.35E-4	Pa	Carrier Gas(BP)	1.20E+2	kPa			

US EPA Tune Check Sample Report

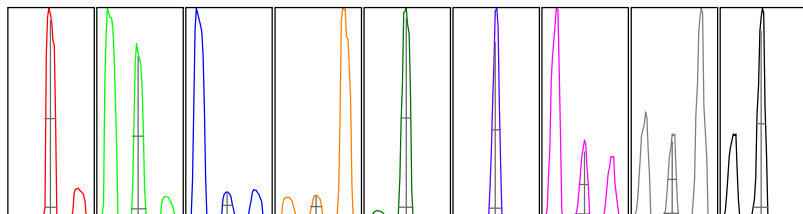
Batch Folder D:\Analytical Runs\I10081618A.b
 Report Comment
 Instrument Name I10 JP12452145

[NoGas]

Mass	Count (Mean)	RSD % (Actual)	RSD % (Required)	RSD % (Flag)
9	30618	0.48	5.00	
24	112585	2.16	5.00	
25	14128	3.03	5.00	
26	15292	2.28	5.00	
59	74861	0.72	5.00	
115	61425	0.91	5.00	
206	10007	0.72	5.00	
207	8391	1.29	5.00	
208	20749	0.55	5.00	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	30488	30680	30447	30801	30671
24	114935	112166	112356	108857	114611
25	14698	14247	14219	13940	13538
26	15829	15385	15225	14894	15130
59	74168	74938	75318	75421	74462
115	62134	60610	61510	61227	61644
206	10074	9909	10080	9971	9999
207	8564	8317	8389	8284	8401
208	20927	20630	20681	20722	20787

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X % (Actual)	Width-X % (Required)	Width- X % (Flag)
9	8435	9.00	8.9 - 9.1		0.445	0.850	
24	30514	23.95	23.9 - 24.1		0.526	0.850	
25	3757	24.95	24.9 - 25.1		0.497	0.850	
26	4086	25.95	25.9 - 26.1		0.515	0.850	
59	20945	59.00	58.9 - 59.1		0.522	0.850	
115	18848	115.00	114.9 - 115.1		0.482	0.850	
206	2923	206.00	205.9 - 206.1		0.514	0.850	
207	2480	206.95	206.9 - 207.1		0.512	0.850	
208	6106	207.95	207.9 - 208.1		0.520	0.850	

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 212.5 Y Axis = Linear

Tune Parameters

Plasma Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.50	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.60 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	7.4	V	Deflect	17.2	V
Extract 2	-100.0	V	Cell Entrance	-50	V	Plate Bias	-60	V
Omega Bias	-70	V	Cell Exit	-70	V			

Cell Parameters

US EPA Tune Check Sample Report

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	false		3rd Gas Flow	0	%	Energy Discrimination	4.0	V
ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
He Flow	0.0	mL/min	OctP Bias	-10.0	V			
H2 Flow	0.0	mL/min	OctP RF	180	V			

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG No.: _____

ICV Source: MTMSICVW_00083

Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00215

Analyte	ICV 240-341396/7 08/16/2018 18:15				CCV 240-341396/77 08/16/2018 23:29				CCV 240-341396/89 08/17/2018 00:22			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	40.9		40.0	102	53.9		50.0	108	51.6		50.0	103
Arsenic	40.7		40.0	102	48.2		50.0	96	46.8		50.0	94
Barium	39.3		40.0	98	53.1		50.0	106	51.5		50.0	103
Beryllium	40.6		40.0	101	50.5		50.0	101	53.9		50.0	108
Cadmium	40.5		40.0	101	51.2		50.0	102	49.7		50.0	99
Calcium	19700		20000	98	25400		25000	101	24400		25000	98
Chromium	40.3		40.0	101	51.4		50.0	103	49.5		50.0	99
Cobalt	40.9		40.0	102	52.2		50.0	104	50.7		50.0	101
Copper	41.9		40.0	105	52.8		50.0	106	51.4		50.0	103
Lead	41.2		40.0	103	51.9		50.0	104	50.6		50.0	101
Magnesium	20500		20000	102	24900		25000	100	24300		25000	97
Molybdenum	40.7		40.0	102	52.3		50.0	105	51.0		50.0	102
Nickel	40.1		40.0	100	46.1		50.0	92	45.8		50.0	92
Selenium	40.7		40.0	102	48.8		50.0	98	47.9		50.0	96
Silver	40.1		40.0	100	50.1		50.0	100	49.3		50.0	99
Thallium	41.4		40.0	104	54.0		50.0	108	52.8		50.0	106
Tungsten	42.9		40.0	107	53.1		50.0	106	50.9		50.0	102
Vanadium	40.3		40.0	101	51.3		50.0	103	49.7		50.0	99
Zinc	41.7		40.0	104	52.1		50.0	104	50.8		50.0	102

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

ICV Source: MTMSICVW_00083 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00215

Analyte	CCV 240-341396/101 08/17/2018 01:16				CCV 240-341396/113 08/17/2018 02:10				CCV 240-341396/125 08/17/2018 03:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	49.7		50.0	99	52.0		50.0	104	50.9		50.0	102
Arsenic	47.0		50.0	94	47.6		50.0	95	47.6		50.0	95
Barium	50.1		50.0	100	51.5		50.0	103	51.3		50.0	103
Beryllium	51.3		50.0	103	45.7		50.0	91	49.4		50.0	99
Cadmium	49.1		50.0	98	49.1		50.0	98	49.5		50.0	99
Calcium	24700		25000	99	24700		25000	99	24900		25000	100
Chromium	49.9		50.0	100	49.9		50.0	100	50.4		50.0	101
Cobalt	50.7		50.0	101	50.8		50.0	102	51.4		50.0	103
Copper	51.3		50.0	103	51.3		50.0	103	51.7		50.0	103
Lead	50.9		50.0	102	50.5		50.0	101	49.9		50.0	100
Magnesium	24200		25000	97	24300		25000	97	24100		25000	97
Molybdenum	51.9		50.0	104	51.4		50.0	103	51.6		50.0	103
Nickel	45.7		50.0	91	46.8		50.0	94	46.8		50.0	94
Selenium	48.6		50.0	97	49.5		50.0	99	48.1		50.0	96
Silver	49.7		50.0	99	49.1		50.0	98	50.2		50.0	100
Thallium	52.3		50.0	105	51.6		50.0	103	49.2		50.0	98
Tungsten	51.0		50.0	102	50.9		50.0	102	52.6		50.0	105
Vanadium	50.6		50.0	101	50.2		50.0	100	50.8		50.0	102
Zinc	51.1		50.0	102	50.7		50.0	101	51.9		50.0	104

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

ICV Source: MTMSCRI6020AW_00070 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00215

Analyte	ICVL 240-341396/9 08/16/2018 18:24				CCV 240-341396/77 08/16/2018 23:29				CCV 240-341396/89 08/17/2018 00:22			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	1.83	J	2.00	91	53.9		50.0	108	51.6		50.0	103
Arsenic	4.77	J	5.00	95	48.2		50.0	96	46.8		50.0	94
Barium	4.54	J	5.00	91	53.1		50.0	106	51.5		50.0	103
Beryllium	0.864	J	1.00	86	50.5		50.0	101	53.9		50.0	108
Cadmium	0.942	J	1.00	94	51.2		50.0	102	49.7		50.0	99
Calcium	952	J	1000	95	25400		25000	101	24400		25000	98
Chromium	1.97	J	2.00	98	51.4		50.0	103	49.5		50.0	99
Cobalt	0.994	J	1.00	99	52.2		50.0	104	50.7		50.0	101
Copper	2.02		2.00	101	52.8		50.0	106	51.4		50.0	103
Lead	1.01		1.00	101	51.9		50.0	104	50.6		50.0	101
Magnesium	1010		1000	101	24900		25000	100	24300		25000	97
Molybdenum	4.86	J	5.00	97	52.3		50.0	105	51.0		50.0	102
Nickel	1.96	J	2.00	98	46.1		50.0	92	45.8		50.0	92
Selenium	4.85	J	5.00	97	48.8		50.0	98	47.9		50.0	96
Silver	0.986	J	1.00	99	50.1		50.0	100	49.3		50.0	99
Thallium	0.947	J	1.00	95	54.0		50.0	108	52.8		50.0	106
Tungsten	9.66	J	10.0	97	53.1		50.0	106	50.9		50.0	102
Vanadium	4.78	J	5.00	96	51.3		50.0	103	49.7		50.0	99
Zinc	20.0		20.0	100	52.1		50.0	104	50.8		50.0	102

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

ICV Source: MTMSCRI6020AW_00070 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00215

Analyte	CCV 240-341396/101 08/17/2018 01:16				CCV 240-341396/113 08/17/2018 02:10				CCV 240-341396/125 08/17/2018 03:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	49.7		50.0	99	52.0		50.0	104	50.9		50.0	102
Arsenic	47.0		50.0	94	47.6		50.0	95	47.6		50.0	95
Barium	50.1		50.0	100	51.5		50.0	103	51.3		50.0	103
Beryllium	51.3		50.0	103	45.7		50.0	91	49.4		50.0	99
Cadmium	49.1		50.0	98	49.1		50.0	98	49.5		50.0	99
Calcium	24700		25000	99	24700		25000	99	24900		25000	100
Chromium	49.9		50.0	100	49.9		50.0	100	50.4		50.0	101
Cobalt	50.7		50.0	101	50.8		50.0	102	51.4		50.0	103
Copper	51.3		50.0	103	51.3		50.0	103	51.7		50.0	103
Lead	50.9		50.0	102	50.5		50.0	101	49.9		50.0	100
Magnesium	24200		25000	97	24300		25000	97	24100		25000	97
Molybdenum	51.9		50.0	104	51.4		50.0	103	51.6		50.0	103
Nickel	45.7		50.0	91	46.8		50.0	94	46.8		50.0	94
Selenium	48.6		50.0	97	49.5		50.0	99	48.1		50.0	96
Silver	49.7		50.0	99	49.1		50.0	98	50.2		50.0	100
Thallium	52.3		50.0	105	51.6		50.0	103	49.2		50.0	98
Tungsten	51.0		50.0	102	50.9		50.0	102	52.6		50.0	105
Vanadium	50.6		50.0	101	50.2		50.0	100	50.8		50.0	102
Zinc	51.1		50.0	102	50.7		50.0	101	51.9		50.0	104

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

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-341396/8 08/16/2018 18:19		CCB 240-341396/78 08/16/2018 23:33		CCB 240-341396/90 08/17/2018 00:27		CCB 240-341396/102 08/17/2018 01:21	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Arsenic	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Barium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Beryllium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Cadmium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Calcium	1000	1000	U	1000	U	1000	U	1000	U
Chromium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Cobalt	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Copper	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Lead	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Magnesium	1000	1000	U	1000	U	1000	U	1000	U
Molybdenum	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Nickel	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Selenium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Silver	1.0	1.0	U	1.0	U	1.0	U	1.0	U
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	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.: 240-99625-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 240-341396/114 08/17/2018 02:14		CCB 240-341396/126 08/17/2018 03:08					
		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	1.0	U	1.0	U				
Cadmium	1.0	1.0	U	1.0	U				
Calcium	1000	1000	U	1000	U				
Chromium	2.0	2.0	U	2.0	U				
Cobalt	1.0	1.0	U	1.0	U				
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	5.0	5.0	U	5.0	U				
Nickel	2.0	2.0	U	2.0	U				
Selenium	5.0	5.0	U	5.0	U				
Silver	1.0	1.0	U	1.0	U				
Thallium	1.0	1.0	U	1.0	U				
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.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: ICSA 240-341396/10 Instrument ID: I10
 Lab File ID: 010ICSA.d ICS Source: MTMSICSAW_00086
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		0.0020	
Arsenic		0.0840	
Barium		0.0060	
Beryllium		-0.0160	
Cadmium		0.129	
Calcium	50000	49638	99
Chromium		0.223	
Cobalt		0.0540	
Copper		0.111	
Lead		0.0260	
Magnesium	50000	49324	99
Molybdenum	1000	1008	101
Nickel		0.212	
Selenium		-0.0170	
Silver		0.0020	
Thallium		-0.0160	
Tungsten		0.359	
Vanadium		0.134	
Zinc		0.261	
<i>Aluminum</i>	50000	47867	96
<i>Boron</i>		1.35	
<i>Iron</i>	50000	48555	97
<i>Lithium</i>		-1.36	
<i>Manganese</i>		0.0800	
<i>Potassium</i>	50000	49691	99
<i>Sodium</i>	50000	48810	98
<i>Strontium</i>		0.461	
<i>Tin</i>		-0.313	
<i>Titanium</i>	1000	997	100

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.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: ICSAB 240-341396/11 Instrument ID: I10
 Lab File ID: 011ICAB.d ICS Source: MTMSICSABW_00087
 Concentration Units: ug/L

Analyte	True	Found	
	Solution AB	Solution AB	Percent Recovery
Antimony	100	102	102
Arsenic	100	99.7	100
Barium	100	97.7	98
Beryllium	100	94.4	94
Cadmium	100	97.4	97
Calcium	50000	48838	98
Chromium	100	96.6	97
Cobalt	100	97.7	98
Copper	100	98.0	98
Lead	100	101	101
Magnesium	50000	48422	97
Molybdenum	1100	1102	100
Nickel	100	97.7	98
Selenium	100	101	101
Silver	100	98.4	98
Thallium	100	99.7	100
Tungsten	100	103	103
Vanadium	100	97.2	97
Zinc	100	101	101
<i>Aluminum</i>	<i>50000</i>	<i>46695</i>	<i>93</i>
<i>Boron</i>	<i>100</i>	<i>95.6</i>	<i>96</i>
<i>Iron</i>	<i>50000</i>	<i>48833</i>	<i>98</i>
<i>Lithium</i>	<i>100</i>	<i>83.2</i>	<i>83</i>
<i>Manganese</i>	<i>100</i>	<i>97.2</i>	<i>97</i>
<i>Potassium</i>	<i>50000</i>	<i>49350</i>	<i>99</i>
<i>Sodium</i>	<i>50000</i>	<i>48619</i>	<i>97</i>
<i>Strontium</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Tin</i>	<i>100</i>	<i>98.0</i>	<i>98</i>
<i>Titanium</i>	<i>1100</i>	<i>1092</i>	<i>99</i>

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

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG No.: _____

Instrument ID: I10

Analysis Method: 6020

Start Date: 08/17/2018 15:39

End Date: 08/18/2018 06:22

Lab Sample Id	D/F	Type	Time	Analytes																					
				A	A	B	B	C	C	C	C	M	M	N	P	S	S	T	V	W	Z				
g	s	a	e	a	d	o	r	u	g	o	i	b	b	e	l										
ZZZZZZ			15:39																						
ICIS 240-341571/2			15:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
STD1 240-341571/3 IC	1		15:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
STD2 240-341571/4 IC	1		15:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
STD3 240-341571/5 IC	1		15:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
STD4 240-341571/6 IC	1		16:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
ICV 240-341571/7	1		16:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
ICB 240-341571/8	1		16:10	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X				
ICVL 240-341571/9	1		16:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
ICSA 240-341571/10	1		16:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
ICSAB 240-341571/11	1		16:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
CCV 240-341571/12			16:28																						
CCB 240-341571/13			16:32																						
CCV 240-341571/14			16:37																						
CCB 240-341571/15			16:41																						
ZZZZZZ			16:46																						
ZZZZZZ			16:50																						
ZZZZZZ			16:55																						
ZZZZZZ			16:59																						
ZZZZZZ			17:04																						
ZZZZZZ			17:08																						
ZZZZZZ			17:13																						
ZZZZZZ			17:17																						
ZZZZZZ			17:22																						
CCV 240-341571/25			17:26																						
CCB 240-341571/26			17:30																						
ZZZZZZ			17:35																						
ZZZZZZ			17:39																						
ZZZZZZ			17:44																						
ZZZZZZ			17:48																						
ZZZZZZ			17:53																						
ZZZZZZ			17:57																						
ZZZZZZ			18:02																						
ZZZZZZ			18:06																						
ZZZZZZ			18:11																						
ZZZZZZ			18:15																						
CCV 240-341571/37			18:20																						
CCB 240-341571/38			18:24																						
ZZZZZZ			18:29																						
ZZZZZZ			18:33																						
ZZZZZZ			18:37																						
ZZZZZZ			18:42																						

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Instrument ID: <u>I10</u>	Analysis Method: <u>6020</u>
Start Date: <u>08/17/2018 15:39</u>	End Date: <u>08/18/2018 06:22</u>

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			18:46																								
ZZZZZZ			18:51																								
ZZZZZZ			18:55																								
ZZZZZZ			19:00																								
ZZZZZZ			19:04																								
ZZZZZZ			19:09																								
CCV 240-341571/49			19:13																								
CCB 240-341571/50			19:18																								
ZZZZZZ			19:22																								
ZZZZZZ			19:27																								
ZZZZZZ			19:31																								
ZZZZZZ			19:36																								
ZZZZZZ			19:40																								
ZZZZZZ			19:45																								
ZZZZZZ			19:49																								
ZZZZZZ			19:54																								
ZZZZZZ			19:58																								
ZZZZZZ			20:03																								
CCV 240-341571/61			20:07																								
CCB 240-341571/62			20:12																								
ZZZZZZ			20:16																								
ZZZZZZ			20:21																								
ZZZZZZ			20:25																								
ZZZZZZ			20:30																								
ZZZZZZ			20:34																								
ZZZZZZ			20:39																								
ZZZZZZ			20:43																								
ZZZZZZ			20:47																								
ZZZZZZ			20:52																								
ZZZZZZ			20:56																								
CCV 240-341571/73	1		21:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
CCB 240-341571/74	1		21:05	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X					
ZZZZZZ			21:10																								
ZZZZZZ			21:14																								
ZZZZZZ			21:19																								
ZZZZZZ			21:23																								
ZZZZZZ			21:28																								
MB 240-340099/1-A	1	R	21:32	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X					
LCS 240-340099/2-A	1	R	21:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
240-99625-1	1	D	21:41	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X					
240-99625-1 SD	5	D	21:46	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X					
240-99625-1 MS	1	D	21:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG No.: _____

Instrument ID: I10

Analysis Method: 6020

Start Date: 08/17/2018 15:39

End Date: 08/18/2018 06:22

Lab Sample Id	D/F	Type	Time	Analytes																									
				A	A	B	B	C	C	C	C	C	M	M	N	P	S	S	T	V	W	Z							
CCV 240-341571/85		1	21:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CCB 240-341571/86		1	21:59	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-1 MSD		1 D	22:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
ZZZZZZ			22:08																										
240-99625-2		1 D	22:12	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-3		1 D	22:17	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-4		1 D	22:21	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-5		1 D	22:26	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-6		1 D	22:30	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-7		1 D	22:35	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-8		1 D	22:39	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-9		1 D	22:44	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
CCV 240-341571/97		1	22:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CCB 240-341571/98		1	22:53	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-10		1 D	22:57	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-11		1 D	23:02	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-12		1 D	23:07	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-13		1 D	23:11	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-14		1 D	23:16	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-15		1 D	23:20	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-16		1 D	23:25	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-17		1 D	23:29	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-18		1 D	23:34	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-19		1 D	23:38	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
CCV 240-341571/109		1	23:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CCB 240-341571/110		1	23:47	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
240-99625-20		1 D	23:51	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
ZZZZZZ			23:56																										
ZZZZZZ			00:00																										
ZZZZZZ			00:05																										
ZZZZZZ			00:09																										
ZZZZZZ			00:14																										
ZZZZZZ			00:18																										
ZZZZZZ			00:23																										
ZZZZZZ			00:27																										
CCV 240-341571/120		1	00:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
CCB 240-341571/121		1	00:36	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X							
CCVL 240-341571/122			00:41																										
ZZZZZZ			00:45																										
ZZZZZZ			00:50																										
ZZZZZZ			00:54																										
ZZZZZZ			00:59																										

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Instrument ID: <u>I10</u>	Analysis Method: <u>6020</u>
Start Date: <u>08/17/2018 15:39</u>	End Date: <u>08/18/2018 06:22</u>

[illegible]

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Instrument ID: <u>I10</u>	Analysis Method: <u>6020</u>
Start Date: <u>08/17/2018 15:39</u>	End Date: <u>08/18/2018 06:22</u>

[illegible]

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

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG No.: _____

ICP-MS Instrument ID: I10

Start Date: 08/17/2018 End Date: 08/18/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc/1	Q	Element Sc/2	Q	Element Rh	Q	Element In	Q
STD1 240-341571/3 IC	15:48	99		98		100		100		95	
STD2 240-341571/4 IC	15:52	93		95		100		93		91	
STD3 240-341571/5 IC	15:57	95		96		101		93		91	
STD4 240-341571/6 IC	16:01	101		100		103		101		99	
ICV 240-341571/7	16:05	95		100		100		96		97	
ICB 240-341571/8	16:10	100		99		103		100		97	
ICVL 240-341571/9	16:14	100		98		105		99		96	
ICSA 240-341571/10	16:19	88		93		97		92		89	
ICSAB 240-341571/11	16:23	87		93		100		91		88	
CCV 240-341571/73	21:01	82		88		94		92		88	
CCB 240-341571/74	21:05	85		90		95		94		91	
MB 240-340099/1-A	21:32	80		87		93		93		88	
LCS 240-340099/2-A	21:37	71		81		92		88		83	
240-99625-1	21:41	70		82		86		83		80	
240-99625-1 SD	21:46	81		85		95		87		86	
240-99625-1 MS	21:50	69		80		87		79		79	
CCV 240-341571/85	21:55	81		89		93		90		88	
CCB 240-341571/86	21:59	85		91		91		96		93	
240-99625-1 MSD	22:04	68		80		87		82		80	
240-99625-2	22:12	70		80		87		81		81	
240-99625-3	22:17	68		80		86		78		79	
240-99625-4	22:21	71		83		90		80		81	
240-99625-5	22:26	72		84		87		81		81	
240-99625-6	22:30	72		85		88		83		82	
240-99625-7	22:35	74		78		90		79		78	
240-99625-8	22:39	73		82		89		82		81	
240-99625-9	22:44	73		81		93		82		82	
CCV 240-341571/97	22:48	78		83		88		83		85	
CCB 240-341571/98	22:53	87		84		91		86		87	
240-99625-10	22:57	73		80		88		78		79	
240-99625-11	23:02	74		79		88		78		79	
240-99625-12	23:07	72		83		88		81		83	
240-99625-13	23:11	76		87		93		84		85	
240-99625-14	23:16	77		89		93		86		88	
240-99625-15	23:20	75		88		89		85		86	
240-99625-16	23:25	78		87		92		84		87	
240-99625-17	23:29	77		88		94		86		87	
240-99625-18	23:34	75		90		93		86		89	
240-99625-19	23:38	74		87		86		84		86	

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

ICP-MS Instrument ID: I10 Start Date: 08/17/2018 End Date: 08/18/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc/1	Q	Element Sc/2	Q	Element Rh	Q	Element In	Q
CCV 240-341571/109	23:43	82		88		94		87		91	
CCB 240-341571/110	23:47	82		89		91		92		94	
240-99625-20	23:51	76		84		89		79		81	
CCV 240-341571/120	00:32	76		85		88		87		86	
CCB 240-341571/121	00:36	83		86		88		92		89	

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

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG No.: _____

ICP-MS Instrument ID: I10

Start Date: 08/17/2018 End Date: 08/18/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
STD1 240-341571/3 IC	15:48	96		97		95					
STD2 240-341571/4 IC	15:52	96		97		89					
STD3 240-341571/5 IC	15:57	94		99		85					
STD4 240-341571/6 IC	16:01	101		101		98					
ICV 240-341571/7	16:05	99		99		93					
ICB 240-341571/8	16:10	101		101		97					
ICVL 240-341571/9	16:14	96		98		96					
ICSA 240-341571/10	16:19	92		98		85					
ICSAB 240-341571/11	16:23	95		97		89					
CCV 240-341571/73	21:01	92		96		84					
CCB 240-341571/74	21:05	93		94		88					
MB 240-340099/1-A	21:32	92		94		87					
LCS 240-340099/2-A	21:37	89		92		81					
240-99625-1	21:41	85		89		73					
240-99625-1 SD	21:46	87		91		78					
240-99625-1 MS	21:50	87		86		72					
CCV 240-341571/85	21:55	92		94		81					
CCB 240-341571/86	21:59	96		97		94					
240-99625-1 MSD	22:04	86		91		74					
240-99625-2	22:12	83		89		72					
240-99625-3	22:17	82		84		70					
240-99625-4	22:21	86		87		72					
240-99625-5	22:26	85		88		72					
240-99625-6	22:30	85		88		73					
240-99625-7	22:35	81		83		68					
240-99625-8	22:39	85		87		70					
240-99625-9	22:44	86		87		70					
CCV 240-341571/97	22:48	87		89		76					
CCB 240-341571/98	22:53	87		90		78					
240-99625-10	22:57	82		86		71					
240-99625-11	23:02	82		83		68					
240-99625-12	23:07	85		86		71					
240-99625-13	23:11	88		90		73					
240-99625-14	23:16	90		95		75					
240-99625-15	23:20	89		90		73					
240-99625-16	23:25	90		90		73					
240-99625-17	23:29	89		92		73					
240-99625-18	23:34	92		92		74					
240-99625-19	23:38	90		90		73					

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

Lab Name: TestAmerica Canton Job No.: 240-99625-1

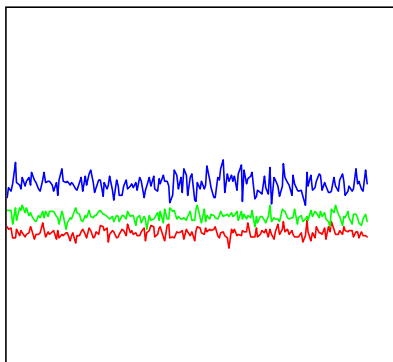
SDG No.: _____

ICP-MS Instrument ID: I10 Start Date: 08/17/2018 End Date: 08/18/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Ho	Q	Element Bi	Q	Element	Q	Element	Q
CCV 240-341571/109	23:43	94		95		81					
CCB 240-341571/110	23:47	94		95		86					
240-99625-20	23:51	83		87		71					
CCV 240-341571/120	00:32	90		91		79					
CCB 240-341571/121	00:36	93		93		85					

Current Signal

[NoGas]



Mass Range	Count	Avg. Count	RSD [%]
7 5000	1795	1858.3	3.32
89 5000	2020	2089.4	3.16
205 2000	1015	1016.2	4.76
156/140 2	1.371 %	0.965 %	29.61
45 200	153	154.6	10.67
11 2000	1725	1732.7	3.25
60 100	30	33.0	20.87
Integration Time [sec]		0.10	

Tune Parameters

Plasma Parameters

RF Power	1600	W	Carrier Gas	0.45	L/min	S/C Temp	2	°C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

Extract 1	0.0	V	Omega Lens	8.4	V	Deflect	17.6	V
Extract 2	-150.0	V	Cell Entrance	-50	V	Plate Bias	-90	V
Omega Bias	-95	V	Cell Exit	-90	V			

Cell Parameters

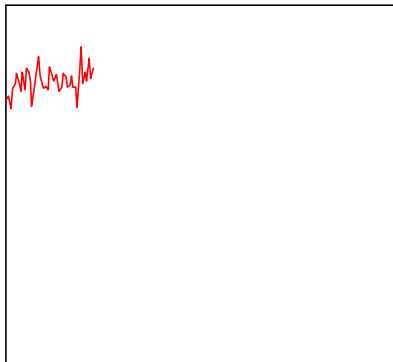
Use Gas	false		3rd Gas Flow	0	%	Energy Discrimination	6.0	V
He Flow	0.0	mL/min	OctP Bias	-10.0	V			
H2 Flow	0.0	mL/min	OctP RF	200	V			

Meters

IF/BK Press	2.01E+2	Pa	S/C Temp (L)	2.0	°C	He Gas	0.13	mL/min
Analyzer Press	7.69E-5	Pa	Carrier Gas(BP)	1.07E+2	kPa			

Current Signal

[He]



Mass Range	Count	Avg. Count	RSD [%]
59 1000	825	790.1	4.40
51/59 50	21.572 %	22.942 %	12.06
52 200	100	98.7	12.33
78 50	27	23.8	27.39
51 500	178	181.0	11.41
Integration Time [sec]		0.10	

Tune Parameters

Plasma Parameters

RF Power	1600	W	Carrier Gas	0.45	L/min	S/C Temp	2	°C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch	Dilution Gas	
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas	0.55	L/min

Lenses Parameters

Extract 1	0.0	V	Omega Lens	8.4	V	Deflect	6.4	V
Extract 2	-150.0	V	Cell Entrance	-50	V	Plate Bias	-110	V
Omega Bias	-95	V	Cell Exit	-90	V			

Cell Parameters

Use Gas	true		3rd Gas Flow	0	%	Energy Discrimination	5.0	V
He Flow	4.5	mL/min	OctP Bias	-20.0	V			
H2 Flow	0.0	mL/min	OctP RF	200	V			

Meters

IF/BK Press	2.01E+2	Pa	S/C Temp (L)	2.0	°C	He Gas	4.50	mL/min
Analyzer Press	1.26E-4	Pa	Carrier Gas(BP)	1.07E+2	kPa			

US EPA Tune Check Sample Report

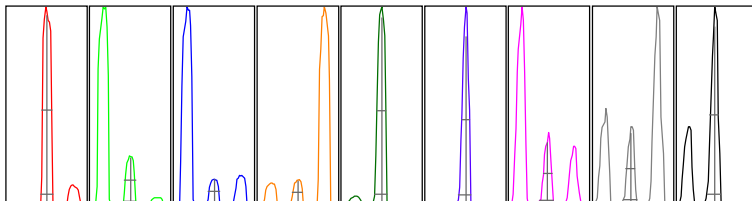
Batch Folder D:\Analytical Runs\I10081718A.b
 Report Comment
 Instrument Name I10 JP12452145

[NoGas]

Mass	Count (Mean)	RSD % (Actual)	RSD % (Required)	RSD % (Flag)
9	21645	0.46	5.00	
24	48802	0.70	5.00	
25	6097	1.36	5.00	
26	6955	1.78	5.00	
59	58562	0.46	5.00	
115	57585	0.41	5.00	
206	10451	1.18	5.00	
207	8680	0.80	5.00	
208	22320	0.88	5.00	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	21637	21493	21702	21758	21634
24	48318	48647	49164	48801	49078
25	5965	6103	6087	6152	6179
26	6778	6970	6912	7116	7000
59	58277	58872	58830	58434	58398
115	57710	57404	57912	57578	57322
206	10489	10387	10268	10571	10539
207	8711	8649	8651	8783	8604
208	22576	22037	22392	22331	22262

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X % (Actual)	Width-X % (Required)	Width- X % (Flag)
9	5915	9.05	8.9 - 9.1		0.477	0.850	
24	13130	24.05	23.9 - 24.1		0.487	0.850	
25	1638	25.05	24.9 - 25.1		0.487	0.850	
26	1854	26.05	25.9 - 26.1		0.493	0.850	
59	16050	59.05	58.9 - 59.1		0.493	0.850	
115	17431	115.05	114.9 - 115.1		0.476	0.850	
206	2982	205.95	205.9 - 206.1		0.513	0.850	
207	2560	206.95	206.9 - 207.1		0.520	0.850	
208	6518	207.95	207.9 - 208.1		0.530	0.850	

X % = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 212.5 Y Axis = Linear

Tune Parameters

Plasma Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.45	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps	Makeup/Dilution Gas		0.55 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	8.4	V	Deflect	17.6	V
Extract 2	-150.0	V	Cell Entrance	-50	V	Plate Bias	-90	V
Omega Bias	-95	V	Cell Exit	-90	V			

Cell Parameters

US EPA Tune Check Sample Report

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	false		3rd Gas Flow	0	%	Energy Discrimination	6.0	V
ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
He Flow	0.0	mL/min	OctP Bias	-10.0	V			
H2 Flow	0.0	mL/min	OctP RF	200	V			

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

ICV Source: MTMSICVW_00083 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00214

Analyte	ICV 240-341571/7 08/17/2018 16:05				CCV 240-341571/120 08/18/2018 00:32							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	39.1		40.0	98	52.3		50.0	105				
Arsenic	39.4		40.0	98	50.3		50.0	101				
Barium	38.6		40.0	96	51.6		50.0	103				
Beryllium	40.2		40.0	100	50.0		50.0	100				
Cadmium	38.8		40.0	97	49.6		50.0	99				
Calcium	18800		20000	94	23700		25000	95				
Chromium	38.8		40.0	97	49.8		50.0	100				
Cobalt	39.1		40.0	98	50.1		50.0	100				
Copper	40.2		40.0	100	50.6		50.0	101				
Lead	41.2		40.0	103	50.3		50.0	101				
Magnesium	19200		20000	96	24000		25000	96				
Molybdenum	39.7		40.0	99	50.8		50.0	102				
Nickel	39.4		40.0	99	50.6		50.0	101				
Selenium	39.4		40.0	99	51.5		50.0	103				
Silver	39.6		40.0	99	50.1		50.0	100				
Thallium	40.5		40.0	101	50.5		50.0	101				
Tungsten	40.1		40.0	100	50.5		50.0	101				
Vanadium	38.4		40.0	96	49.1		50.0	98				
Zinc	38.9		40.0	97	50.8		50.0	102				

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

ICV Source: MTMSICVW_00083 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00215

Analyte	ICV 240-341571/7 08/17/2018 16:05				CCV 240-341571/73 08/17/2018 21:01				CCV 240-341571/85 08/17/2018 21:55			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	39.1		40.0	98	52.1		50.0	104	51.8		50.0	104
Arsenic	39.4		40.0	98	51.6		50.0	103	50.9		50.0	102
Barium	38.6		40.0	96	50.8		50.0	102	51.3		50.0	103
Beryllium	40.2		40.0	100	48.2		50.0	96	49.6		50.0	99
Cadmium	38.8		40.0	97	50.6		50.0	101	50.2		50.0	100
Calcium	18800		20000	94	24200		25000	97	23800		25000	95
Chromium	38.8		40.0	97	50.9		50.0	102	50.2		50.0	100
Cobalt	39.1		40.0	98	51.3		50.0	103	50.2		50.0	100
Copper	40.2		40.0	100	52.1		50.0	104	50.9		50.0	102
Lead	41.2		40.0	103	50.6		50.0	101	50.5		50.0	101
Magnesium	19200		20000	96	24700		25000	99	23900		25000	96
Molybdenum	39.7		40.0	99	50.4		50.0	101	51.5		50.0	103
Nickel	39.4		40.0	99	51.4		50.0	103	50.7		50.0	101
Selenium	39.4		40.0	99	51.0		50.0	102	51.8		50.0	104
Silver	39.6		40.0	99	49.7		50.0	99	50.7		50.0	101
Thallium	40.5		40.0	101	50.4		50.0	101	50.4		50.0	101
Tungsten	40.1		40.0	100	51.7		50.0	103	51.2		50.0	102
Vanadium	38.4		40.0	96	50.6		50.0	101	49.8		50.0	100
Zinc	38.9		40.0	97	51.6		50.0	103	51.0		50.0	102

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

ICV Source: MTMSICVW_00083 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00215

Analyte	CCV 240-341571/97 08/17/2018 22:48				CCV 240-341571/109 08/17/2018 23:43							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	54.2		50.0	108	53.1		50.0	106				
Arsenic	53.8		50.0	108	51.1		50.0	102				
Barium	53.3		50.0	107	52.1		50.0	104				
Beryllium	48.9		50.0	98	49.5		50.0	99				
Cadmium	50.8		50.0	102	49.4		50.0	99				
Calcium	24900		25000	100	24300		25000	97				
Chromium	52.6		50.0	105	50.8		50.0	102				
Cobalt	52.2		50.0	104	50.8		50.0	102				
Copper	52.7		50.0	105	51.2		50.0	102				
Lead	50.7		50.0	101	49.8		50.0	100				
Magnesium	25200		25000	101	25300		25000	101				
Molybdenum	53.9		50.0	108	53.1		50.0	106				
Nickel	52.7		50.0	105	51.1		50.0	102				
Selenium	53.3		50.0	107	52.4		50.0	105				
Silver	53.2		50.0	106	53.0		50.0	106				
Thallium	51.0		50.0	102	50.0		50.0	100				
Tungsten	52.4		50.0	105	50.4		50.0	101				
Vanadium	52.2		50.0	104	50.2		50.0	100				
Zinc	53.6		50.0	107	52.0		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.: 240-99625-1

SDG No.: _____

ICV Source: MTMSCRI6020AW_00070 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00214

Analyte	ICVL 240-341571/9 08/17/2018 16:14				CCV 240-341571/120 08/18/2018 00:32							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	1.96	J	2.00	98	52.3		50.0	105				
Arsenic	4.87	J	5.00	97	50.3		50.0	101				
Barium	4.90	J	5.00	98	51.6		50.0	103				
Beryllium	0.881	J	1.00	88	50.0		50.0	100				
Cadmium	0.989	J	1.00	99	49.6		50.0	99				
Calcium	993	J	1000	99	23700		25000	95				
Chromium	2.03		2.00	101	49.8		50.0	100				
Cobalt	1.04		1.00	104	50.1		50.0	100				
Copper	2.07		2.00	104	50.6		50.0	101				
Lead	1.07		1.00	107	50.3		50.0	101				
Magnesium	1010		1000	101	24000		25000	96				
Molybdenum	4.97	J	5.00	99	50.8		50.0	102				
Nickel	2.13		2.00	106	50.6		50.0	101				
Selenium	4.95	J	5.00	99	51.5		50.0	103				
Silver	0.980	J	1.00	98	50.1		50.0	100				
Thallium	1.04		1.00	104	50.5		50.0	101				
Tungsten	10.1		10.0	101	50.5		50.0	101				
Vanadium	4.89	J	5.00	98	49.1		50.0	98				
Zinc	20.1		20.0	101	50.8		50.0	102				

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

ICV Source: MTMSCRI6020AW_00070 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00215

Analyte	ICVL 240-341571/9 08/17/2018 16:14				CCV 240-341571/73 08/17/2018 21:01				CCV 240-341571/85 08/17/2018 21:55			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	1.96	J	2.00	98	52.1		50.0	104	51.8		50.0	104
Arsenic	4.87	J	5.00	97	51.6		50.0	103	50.9		50.0	102
Barium	4.90	J	5.00	98	50.8		50.0	102	51.3		50.0	103
Beryllium	0.881	J	1.00	88	48.2		50.0	96	49.6		50.0	99
Cadmium	0.989	J	1.00	99	50.6		50.0	101	50.2		50.0	100
Calcium	993	J	1000	99	24200		25000	97	23800		25000	95
Chromium	2.03		2.00	101	50.9		50.0	102	50.2		50.0	100
Cobalt	1.04		1.00	104	51.3		50.0	103	50.2		50.0	100
Copper	2.07		2.00	104	52.1		50.0	104	50.9		50.0	102
Lead	1.07		1.00	107	50.6		50.0	101	50.5		50.0	101
Magnesium	1010		1000	101	24700		25000	99	23900		25000	96
Molybdenum	4.97	J	5.00	99	50.4		50.0	101	51.5		50.0	103
Nickel	2.13		2.00	106	51.4		50.0	103	50.7		50.0	101
Selenium	4.95	J	5.00	99	51.0		50.0	102	51.8		50.0	104
Silver	0.980	J	1.00	98	49.7		50.0	99	50.7		50.0	101
Thallium	1.04		1.00	104	50.4		50.0	101	50.4		50.0	101
Tungsten	10.1		10.0	101	51.7		50.0	103	51.2		50.0	102
Vanadium	4.89	J	5.00	98	50.6		50.0	101	49.8		50.0	100
Zinc	20.1		20.0	101	51.6		50.0	103	51.0		50.0	102

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

ICV Source: MTMSCRI6020AW_00070 Concentration Units: ug/L

CCV Source: MTMSCAL2CCVW_00215

Analyte	CCV 240-341571/97 08/17/2018 22:48				CCV 240-341571/109 08/17/2018 23:43							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	54.2		50.0	108	53.1		50.0	106				
Arsenic	53.8		50.0	108	51.1		50.0	102				
Barium	53.3		50.0	107	52.1		50.0	104				
Beryllium	48.9		50.0	98	49.5		50.0	99				
Cadmium	50.8		50.0	102	49.4		50.0	99				
Calcium	24900		25000	100	24300		25000	97				
Chromium	52.6		50.0	105	50.8		50.0	102				
Cobalt	52.2		50.0	104	50.8		50.0	102				
Copper	52.7		50.0	105	51.2		50.0	102				
Lead	50.7		50.0	101	49.8		50.0	100				
Magnesium	25200		25000	101	25300		25000	101				
Molybdenum	53.9		50.0	108	53.1		50.0	106				
Nickel	52.7		50.0	105	51.1		50.0	102				
Selenium	53.3		50.0	107	52.4		50.0	105				
Silver	53.2		50.0	106	53.0		50.0	106				
Thallium	51.0		50.0	102	50.0		50.0	100				
Tungsten	52.4		50.0	105	50.4		50.0	101				
Vanadium	52.2		50.0	104	50.2		50.0	100				
Zinc	53.6		50.0	107	52.0		50.0	104				

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

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 240-341396/114 08/17/2018 02:14		CCB 240-341396/126 08/17/2018 03:08					
		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	1.0	U	1.0	U				
Cadmium	1.0	1.0	U	1.0	U				
Calcium	1000	1000	U	1000	U				
Chromium	2.0	2.0	U	2.0	U				
Cobalt	1.0	1.0	U	1.0	U				
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	5.0	5.0	U	5.0	U				
Nickel	2.0	2.0	U	2.0	U				
Selenium	5.0	5.0	U	5.0	U				
Silver	1.0	1.0	U	1.0	U				
Thallium	1.0	1.0	U	1.0	U				
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.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-341571/8 08/17/2018 16:10		CCB 240-341571/74 08/17/2018 21:05		CCB 240-341571/86 08/17/2018 21:59		CCB 240-341571/98 08/17/2018 22:53	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Arsenic	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Barium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Beryllium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Cadmium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Calcium	1000	1000	U	1000	U	1000	U	1000	U
Chromium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Cobalt	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Copper	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Lead	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Magnesium	1000	1000	U	1000	U	1000	U	1000	U
Molybdenum	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Nickel	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Selenium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Silver	1.0	1.0	U	1.0	U	1.0	U	1.0	U
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	5.0	U	5.0	U
Zinc	20	20	U	20	U	20	U	20	U

Italicized analytes were not requested for this sequence.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: ICSA 240-341571/10 Instrument ID: I10
 Lab File ID: 010ICSA.d ICS Source: MTMSICSAW_00086
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		0.0480	
Arsenic		0.0850	
Barium		0.0230	
Beryllium		-0.0580	
Cadmium		0.214	
Calcium	50000	47740	95
Chromium		0.215	
Cobalt		0.0340	
Copper		0.0990	
Lead		0.0270	
Magnesium	50000	49014	98
Molybdenum	1000	1042	104
Nickel		0.186	
Selenium		-0.0850	
Silver		0.0090	
Thallium		-0.0090	
Tungsten		0.209	
Vanadium		-0.0250	
Zinc		0.454	
<i>Aluminum</i>	<i>50000</i>	<i>48371</i>	<i>97</i>
<i>Boron</i>		<i>0.316</i>	
<i>Iron</i>	<i>50000</i>	<i>49068</i>	<i>98</i>
<i>Lithium</i>		<i>0.429</i>	
<i>Manganese</i>		<i>0.214</i>	
<i>Potassium</i>	<i>50000</i>	<i>48640</i>	<i>97</i>
<i>Sodium</i>	<i>50000</i>	<i>48837</i>	<i>98</i>
<i>Strontium</i>		<i>0.463</i>	
<i>Tin</i>		<i>0.155</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.: 240-99625-1
 SDG No.: _____
 Lab Sample ID: ICSAB 240-341571/11 Instrument ID: I10
 Lab File ID: 011ICAB.d ICS Source: MTMSICSABW_00087
 Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Antimony	100	103	103
Arsenic	100	101	101
Barium	100	101	101
Beryllium	100	98.5	98
Cadmium	100	100	100
Calcium	50000	47471	95
Chromium	100	97.1	97
Cobalt	100	99.0	99
Copper	100	100	100
Lead	100	103	103
Magnesium	50000	48488	97
Molybdenum	1100	1152	105
Nickel	100	100.0	100
Selenium	100	101	101
Silver	100	99.8	100
Thallium	100	102	102
Tungsten	100	102	102
Vanadium	100	97.1	97
Zinc	100	101	101
<i>Aluminum</i>	<i>50000</i>	<i>47463</i>	<i>95</i>
<i>Boron</i>	<i>100</i>	<i>95.3</i>	<i>95</i>
<i>Iron</i>	<i>50000</i>	<i>48632</i>	<i>97</i>
<i>Lithium</i>	<i>100</i>	<i>95.5</i>	<i>96</i>
<i>Manganese</i>	<i>100</i>	<i>96.5</i>	<i>97</i>
<i>Potassium</i>	<i>50000</i>	<i>48567</i>	<i>97</i>
<i>Sodium</i>	<i>50000</i>	<i>48088</i>	<i>96</i>
<i>Strontium</i>	<i>100</i>	<i>99.8</i>	<i>100</i>
<i>Tin</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Titanium</i>	<i>1100</i>	<i>1093</i>	<i>99</i>

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

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG No.: _____

Instrument ID: H2

Analysis Method: 7470A

Start Date: 08/09/2018 08:01

End Date: 08/09/2018 16:38

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				H g																									
IC 240-339963/1-A			08:01	X																									
IC 240-339963/2-A			08:03	X																									
IC 240-339963/3-A			08:05	X																									
IC 240-339963/4-A			08:07	X																									
IC 240-339963/5-A			08:09	X																									
IC 240-339963/6-A			08:12	X																									
ICV 240-339963/7-A	1		08:29	X																									
ICB 240-339963/8-A	1		08:31	X																									
CRA 240-339963/9-A	1		08:33	X																									
CCV 240-339963/10-A			08:35																										
CCB 240-339963/11-A			08:37																										
CCV 240-339963/10-A			08:40																										
CCB 240-339963/11-A			08:42																										
ZZZZZZ			08:52																										
ZZZZZZ			08:54																										
ZZZZZZ			08:56																										
ZZZZZZ			08:58																										
ZZZZZZ			09:00																										
ZZZZZZ			09:02																										
ZZZZZZ			09:04																										
ZZZZZZ			09:06																										
ZZZZZZ			09:08																										
ZZZZZZ			09:10																										
CCV 240-339963/10-A			09:12																										
CCB 240-339963/11-A			09:14																										
ZZZZZZ			09:17																										
ZZZZZZ			09:19																										
ZZZZZZ			09:21																										
ZZZZZZ			09:23																										
ZZZZZZ			09:25																										
ZZZZZZ			09:27																										
ZZZZZZ			09:29																										
ZZZZZZ			09:31																										
ZZZZZZ			09:33																										
CCV 240-339963/10-A			09:35																										
CCB 240-339963/11-A			09:37																										
ZZZZZZ			11:30																										
ZZZZZZ			11:30																										
CCV 240-339963/10-A			11:32																										
CCB 240-339963/11-A			11:34																										
ZZZZZZ			11:37																										
ZZZZZZ			11:39																										

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG No.: _____

Instrument ID: H2

Analysis Method: 7470A

Start Date: 08/09/2018 08:01

End Date: 08/09/2018 16:38

Lab Sample Id	D/F	T Y P e	Time	Analytes																									
				H g																									
ZZZZZZZ			11:41																										
ZZZZZZZ			11:43																										
ZZZZZZZ			11:45																										
ZZZZZZZ			11:47																										
ZZZZZZZ			11:50																										
ZZZZZZZ			11:52																										
ZZZZZZZ			11:54																										
ZZZZZZZ			11:56																										
CCV 240-339963/10-A			11:58																										
CCB 240-339963/11-A			12:00																										
ZZZZZZZ			12:02																										
ZZZZZZZ			12:04																										
ZZZZZZZ			12:06																										
ZZZZZZZ			12:08																										
ZZZZZZZ			12:11																										
ZZZZZZZ			12:13																										
ZZZZZZZ			12:15																										
ZZZZZZZ			12:17																										
ZZZZZZZ			12:19																										
ZZZZZZZ			12:21																										
CCV 240-339963/10-A			12:23																										
CCB 240-339963/11-A			12:25																										
ZZZZZZZ			12:27																										
ZZZZZZZ			12:29																										
ZZZZZZZ			12:31																										
ZZZZZZZ			12:33																										
ZZZZZZZ			12:35																										
ZZZZZZZ			12:37																										
ZZZZZZZ			12:39																										
ZZZZZZZ			12:41																										
CCV 240-339963/10-A			12:43																										
CCB 240-339963/11-A			12:45																										
ZZZZZZZ			13:24																										
ZZZZZZZ			13:26																										
CCV 240-339963/10-A			13:28																										
CCB 240-339963/11-A			13:30																										
ZZZZZZZ			13:32																										
ZZZZZZZ			13:35																										
ZZZZZZZ			13:37																										
ZZZZZZZ			13:39																										
ZZZZZZZ			13:41																										
ZZZZZZZ			13:43																										

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG No.: _____

Instrument ID: H2

Analysis Method: 7470A

Start Date: 08/09/2018 08:01

End Date: 08/09/2018 16:38

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				H g																									
ZZZZZZ			13:45																										
ZZZZZZ			13:47																										
ZZZZZZ			13:49																										
ZZZZZZ			13:51																										
CCV 240-339963/10-A			13:53																										
CCB 240-339963/11-A			13:55																										
ZZZZZZ			13:58																										
ZZZZZZ			14:00																										
ZZZZZZ			14:02																										
ZZZZZZ			14:04																										
ZZZZZZ			14:06																										
ZZZZZZ			14:08																										
ZZZZZZ			14:10																										
ZZZZZZ			14:12																										
ZZZZZZ			14:14																										
ZZZZZZ			14:16																										
CCV 240-339963/10-A	1		14:18	X																									
CCB 240-339963/11-A	1		14:20	X																									
ZZZZZZ			14:22																										
ZZZZZZ			14:24																										
ZZZZZZ			14:26																										
ZZZZZZ			14:28																										
ZZZZZZ			14:30																										
ZZZZZZ			14:32																										
ZZZZZZ			14:34																										
MB 240-340096/1-A	1	T	14:36	X																									
LCS 240-340096/2-A	1	T	14:38	X																									
ZZZZZZ			14:40																										
CCV 240-339963/10-A	1		14:43	X																									
CCB 240-339963/11-A	1		14:45	X																									
ZZZZZZ			14:47																										
ZZZZZZ			14:49																										
ZZZZZZ			14:51																										
240-99625-21	1	D	14:53	X																									
240-99625-22	1	D	14:55	X																									
240-99625-23	1	D	14:57	X																									
240-99625-24	1	D	15:00	X																									
240-99625-25	1	D	15:02	X																									
240-99625-26	1	D	15:04	X																									
240-99625-27	1	D	15:06	X																									
CCV 240-339963/10-A	1		15:08	X																									
CCB 240-339963/11-A	1		15:10	X																									

Lab Name: <u>TestAmerica Canton</u>	Job No.: <u>240-99625-1</u>
SDG No.: _____	
Instrument ID: <u>H2</u>	Analysis Method: <u>7470A</u>
Start Date: 08/09/2018 08:01	End Date: 08/09/2018 16:38

[illegible]

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Instrument ID: H2 Analysis Method: 7470A

Start Date: 08/09/2018 08:01 End Date: 08/09/2018 16:38

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				H g																									
CCB 240-339963/11-A	1		16:38	X																									

Prep Types: _____
D = Dissolved
T = Total/NA

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

ICV Source: MTHgICV_00001_00378 Concentration Units: ug/L

CCV Source: MTHGCALW_01889

Analyte	ICV 240-339963/7-A 08/09/2018 08:29				CCV 240-339963/10-A 08/09/2018 14:18				CCV 240-339963/10-A 08/09/2018 14:43			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.94		5.00	99	5.12		5.00	102	5.02		5.00	100

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

ICV Source: MTHgICV_00001_00378 Concentration Units: ug/L

CCV Source: MTHGCALW_01889

Analyte	CCV 240-339963/10-A 08/09/2018 15:08				CCV 240-339963/10-A 08/09/2018 15:32				CCV 240-339963/10-A 08/09/2018 15:57			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.06		5.00	101	5.07		5.00	101	5.04		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.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

ICV Source: MTHgICV_00001_00378 Concentration Units: ug/L

CCV Source: MTHGCALW_01889

Analyte	CCV 240-339963/10-A 08/09/2018 16:22				CCV 240-339963/10-A 08/09/2018 16:36							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.01		5.00	100	5.03		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.: 240-99625-1
SDG No.: _____
Method: 7470A Instrument ID: H2
Lab Sample ID: CRA 240-339963/9-A Concentration Units: ug/L
CRQL Check Standard Source: MTHGCALW_01889

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.209		105	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.: 240-99625-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 240-339963/8-A 08/09/2018 08:31		CCB 240-339963/11-A 08/09/2018 14:20		CCB 240-339963/11-A 08/09/2018 14:45		CCB 240-339963/11-A 08/09/2018 15:10	
		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.: 240-99625-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 240-339963/11-A 08/09/2018 15:34		CCB 240-339963/11-A 08/09/2018 15:59		CCB 240-339963/11-A 08/09/2018 16:24		CCB 240-339963/11-A 08/09/2018 16:38	
		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.

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-340095/1-A	08/09/2018 15:00	340095		50	50
LCS 240-340095/2-A	08/09/2018 15:00	340095		50	50
240-99625-21	08/09/2018 15:00	340095		50	50
240-99625-22	08/09/2018 15:00	340095		50	50
240-99625-23	08/09/2018 15:00	340095		50	50
240-99625-24	08/09/2018 15:00	340095		50	50
240-99625-25	08/09/2018 15:00	340095		50	50
240-99625-26	08/09/2018 15:00	340095		50	50
240-99625-27	08/09/2018 15:00	340095		50	50
240-99625-28	08/09/2018 15:00	340095		50	50
240-99625-29	08/09/2018 15:00	340095		50	50
240-99625-30	08/09/2018 15:00	340095		50	50
240-99625-31	08/09/2018 15:00	340095		50	50
240-99625-32	08/09/2018 15:00	340095		50	50
240-99625-33	08/09/2018 15:00	340095		50	50
240-99625-34	08/09/2018 15:00	340095		50	50
240-99625-35	08/09/2018 15:00	340095		50	50
240-99625-36	08/09/2018 15:00	340095		50	50

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-99625-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 240-340095/1-A
Instrument Code: I10 Batch No.: 341396

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	2.0	U		6020
7440-38-2	Arsenic	5.0	U		6020
7440-39-3	Barium	5.0	U		6020
7440-41-7	Beryllium	1.0	U		6020
7440-43-9	Cadmium	1.0	U		6020
7440-47-3	Chromium	2.28			6020
7440-48-4	Cobalt	1.0	U		6020
7440-50-8	Copper	2.0	U		6020
7439-92-1	Lead	1.0	U		6020
7439-98-7	Molybdenum	5.0	U		6020
7440-02-0	Nickel	2.0	U		6020
7782-49-2	Selenium	5.0	U		6020
7440-22-4	Silver	1.0	U		6020
7440-28-0	Thallium	1.0	U		6020
7440-62-2	Vanadium	0.920	J		6020
7440-66-6	Zinc	20	U		6020
7440-70-2	Calcium	1000	U		6020
7439-95-4	Magnesium	1000	U		6020
7440-33-7	Tungsten	10	U		6020

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-340095/2-A

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

Sample Matrix: Water

LCS Source: MTICPMSB_00036

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	100	102		102	80	120		6020
Arsenic	1000	944		94	80	120		6020
Barium	1000	1030		103	80	120		6020
Beryllium	1000	941		94	80	120		6020
Cadmium	1000	1020		102	80	120		6020
Chromium	1000	1010		101	80	120		6020
Cobalt	1000	1050		105	80	120		6020
Copper	1000	1070		107	80	120		6020
Lead	1000	1010		101	80	120		6020
Molybdenum	100	99.6		100	80	120		6020
Nickel	1000	926		93	80	120		6020
Selenium	1000	972		97	80	120		6020
Silver	100	102		102	80	120		6020
Thallium	250	257		103	80	120		6020
Vanadium	1000	998		100	80	120		6020
Zinc	1000	1060		106	80	120		6020
Calcium	10000	10300		103	80	120		6020
Magnesium	10000	10200		102	80	120		6020
Tungsten	100	100		100	80	120		6020

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.: 240-99625-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-340099/1-A	08/09/2018 15:00	340099		50	50
LCS 240-340099/2-A	08/09/2018 15:00	340099		50	50
240-99625-1	08/09/2018 15:00	340099		50	50
240-99625-1 MS	08/09/2018 15:00	340099		50	50
240-99625-1 MSD	08/09/2018 15:00	340099		50	50
240-99625-2	08/09/2018 15:00	340099		50	50
240-99625-3	08/09/2018 15:00	340099		50	50
240-99625-4	08/09/2018 15:00	340099		50	50
240-99625-5	08/09/2018 15:00	340099		50	50
240-99625-6	08/09/2018 15:00	340099		50	50
240-99625-7	08/09/2018 15:00	340099		50	50
240-99625-8	08/09/2018 15:00	340099		50	50
240-99625-9	08/09/2018 15:00	340099		50	50
240-99625-10	08/09/2018 15:00	340099		50	50
240-99625-11	08/09/2018 15:00	340099		50	50
240-99625-12	08/09/2018 15:00	340099		50	50
240-99625-13	08/09/2018 15:00	340099		50	50
240-99625-14	08/09/2018 15:00	340099		50	50
240-99625-15	08/09/2018 15:00	340099		50	50
240-99625-16	08/09/2018 15:00	340099		50	50
240-99625-17	08/09/2018 15:00	340099		50	50
240-99625-18	08/09/2018 15:00	340099		50	50
240-99625-19	08/09/2018 15:00	340099		50	50
240-99625-20	08/09/2018 15:00	340099		50	50

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Concentration Units: ug/L Lab Sample ID: MB 240-340099/1-A

Instrument Code: I10 Batch No.: 341571

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	2.0	U		6020
7440-38-2	Arsenic	5.0	U		6020
7440-39-3	Barium	5.0	U		6020
7440-41-7	Beryllium	1.0	U		6020
7440-43-9	Cadmium	1.0	U		6020
7440-47-3	Chromium	1.84	J		6020
7440-48-4	Cobalt	1.0	U		6020
7440-50-8	Copper	2.0	U		6020
7439-92-1	Lead	1.0	U		6020
7439-98-7	Molybdenum	5.0	U		6020
7440-02-0	Nickel	2.0	U		6020
7782-49-2	Selenium	5.0	U		6020
7440-22-4	Silver	1.0	U		6020
7440-28-0	Thallium	1.0	U		6020
7440-62-2	Vanadium	5.0	U		6020
7440-66-6	Zinc	20	U		6020
7440-70-2	Calcium	1000	U		6020
7439-95-4	Magnesium	1000	U		6020
7440-33-7	Tungsten	10	U		6020

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-340099/2-A

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

Sample Matrix: Water

LCS Source: MTICPMSB_00036

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	100	100		100	80	120		6020
Arsenic	1000	1030		103	80	120		6020
Barium	1000	987		99	80	120		6020
Beryllium	1000	956		96	80	120		6020
Cadmium	1000	1000		100	80	120		6020
Chromium	1000	1080		108	80	120		6020
Cobalt	1000	1090		109	80	120		6020
Copper	1000	1070		107	80	120		6020
Lead	1000	1070		107	80	120		6020
Molybdenum	100	96.6		97	80	120		6020
Nickel	1000	1090		109	80	120		6020
Selenium	1000	1030		103	80	120		6020
Silver	100	98.5		98	80	120		6020
Thallium	250	277		111	80	120		6020
Vanadium	1000	1030		103	80	120		6020
Zinc	1000	1050		105	80	120		6020
Calcium	10000	10300		103	80	120		6020
Magnesium	10000	9700		97	80	120		6020
Tungsten	100	99.8		100	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-080718 MS

Lab ID: 240-99625-1 MS

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

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	101	0.71 J	100	100	75-125		6020
Arsenic	1000	1.9 J	1000	100	75-125		6020
Barium	981	12	1000	97	75-125		6020
Beryllium	972	1.0 U	1000	97	75-125		6020
Cadmium	960	0.21 J	1000	96	75-125		6020
Chromium	995	2.5	1000	99	75-125		6020
Cobalt	1030	0.28 J	1000	103	75-125		6020
Copper	1000	6.5	1000	100	75-125		6020
Lead	1030	0.65 J	1000	103	75-125		6020
Molybdenum	104	1.9 J	100	102	75-125		6020
Nickel	980	1.7 J	1000	98	75-125		6020
Selenium	982	1.1 J	1000	98	75-125		6020
Silver	99.6	1.0 U	100	100	75-125		6020
Thallium	271	1.0 U	250	108	75-125		6020
Vanadium	999	2.1 J	1000	100	75-125		6020
Zinc	972	20 U	1000	97	75-125		6020
Calcium	27700	17000	10000	103	75-125		6020
Magnesium	43400	33000	10000	107	75-125		6020
Tungsten	96.9	10 U	100	97	75-125		6020
Mercury	1.17	0.20 U	1.00	117	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-080718 MSD

Lab ID: 240-99625-1 MSD

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

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	1020	1000	102	75-125	2	20		6020
Barium	1020	1000	100	75-125	3	20		6020
Beryllium	990	1000	99	75-125	2	20		6020
Cadmium	976	1000	98	75-125	2	20		6020
Chromium	1040	1000	104	75-125	5	20		6020
Cobalt	1060	1000	106	75-125	3	20		6020
Copper	1010	1000	101	75-125	1	20		6020
Lead	998	1000	100	75-125	3	20		6020
Molybdenum	103	100	101	75-125	1	20		6020
Nickel	1040	1000	104	75-125	6	20		6020
Selenium	1000	1000	100	75-125	2	20		6020
Silver	98.2	100	98	75-125	1	20		6020
Thallium	260	250	104	75-125	4	20		6020
Vanadium	1030	1000	103	75-125	4	20		6020
Zinc	988	1000	99	75-125	2	20		6020
Calcium	28300	10000	109	75-125	2	20		6020
Magnesium	43700	10000	110	75-125	1	20		6020
Tungsten	100	100	100	75-125	4	20		6020
Mercury	1.16	1.00	116	80-120	1	20		7470A

SDR = Sample Duplicate Result

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

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 240-99625-1

SDG No:

Lab Name: TestAmerica Canton

Job No: 240-99625-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.71	J	10	U	NC		6020
Arsenic	1.9	J	25	U	NC		6020
Barium	12		12.2	J	NC		6020
Beryllium	1.0	U	5.0	U	NC		6020
Cadmium	0.21	J	5.0	U	NC		6020
Chromium	2.5		10	U	NC		6020
Cobalt	0.28	J	5.0	U	NC		6020
Copper	6.5		10	U	NC		6020
Lead	0.65	J	5.0	U	NC		6020
Molybdenum	1.9	J	25	U	NC		6020
Nickel	1.7	J	10	U	NC		6020
Selenium	1.1	J	25	U	NC		6020
Silver	1.0	U	5.0	U	NC		6020
Thallium	1.0	U	5.0	U	NC		6020
Vanadium	2.1	J	25	U	NC		6020
Zinc	20	U	100	U	NC		6020
Calcium	17000		19300		NC		6020
Magnesium	33000		35600		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.: 240-99625-1

SDG No.: _____

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-340096/1-A	08/09/2018 14:00	340096		50	50
LCS 240-340096/2-A	08/09/2018 14:00	340096		50	50
240-99625-21	08/09/2018 14:00	340096		50	50
240-99625-22	08/09/2018 14:00	340096		50	50
240-99625-23	08/09/2018 14:00	340096		50	50
240-99625-24	08/09/2018 14:00	340096		50	50
240-99625-25	08/09/2018 14:00	340096		50	50
240-99625-26	08/09/2018 14:00	340096		50	50
240-99625-27	08/09/2018 14:00	340096		50	50
240-99625-28	08/09/2018 14:00	340096		50	50
240-99625-29	08/09/2018 14:00	340096		50	50
240-99625-30	08/09/2018 14:00	340096		50	50
240-99625-31	08/09/2018 14:00	340096		50	50
240-99625-32	08/09/2018 14:00	340096		50	50
240-99625-33	08/09/2018 14:00	340096		50	50
240-99625-34	08/09/2018 14:00	340096		50	50
240-99625-35	08/09/2018 14:00	340096		50	50
240-99625-36	08/09/2018 14:00	340096		50	50

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Concentration Units: ug/L Lab Sample ID: MB 240-340096/1-A

Instrument Code: H2 Batch No.: 340147

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

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-340096/2-A

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

Sample Matrix: Water

LCS Source: MTHGCALW_01890

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	5.43		109	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.: 240-99625-1

SDG No.: _____

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-340101/1-A	08/09/2018 14:00	340101		50	50
LCS 240-340101/2-A	08/09/2018 14:00	340101		50	50
240-99625-1	08/09/2018 14:00	340101		50	50
240-99625-1 MS	08/09/2018 14:00	340101		50	50
240-99625-1 MSD	08/09/2018 14:00	340101		50	50
240-99625-2	08/09/2018 14:00	340101		50	50
240-99625-3	08/09/2018 14:00	340101		50	50
240-99625-4	08/09/2018 14:00	340101		50	50
240-99625-5	08/09/2018 14:00	340101		50	50
240-99625-6	08/09/2018 14:00	340101		50	50
240-99625-7	08/09/2018 14:00	340101		50	50
240-99625-8	08/09/2018 14:00	340101		50	50
240-99625-9	08/09/2018 14:00	340101		50	50
240-99625-10	08/09/2018 14:00	340101		50	50
240-99625-11	08/09/2018 14:00	340101		50	50
240-99625-12	08/09/2018 14:00	340101		50	50
240-99625-13	08/09/2018 14:00	340101		50	50
240-99625-14	08/09/2018 14:00	340101		50	50
240-99625-15	08/09/2018 14:00	340101		50	50
240-99625-16	08/09/2018 14:00	340101		50	50
240-99625-17	08/09/2018 14:00	340101		50	50
240-99625-18	08/09/2018 14:00	340101		50	50
240-99625-19	08/09/2018 14:00	340101		50	50
240-99625-20	08/09/2018 14:00	340101		50	50

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Concentration Units: ug/L Lab Sample ID: MB 240-340101/1-A

Instrument Code: H2 Batch No.: 340147

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

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-340101/2-A

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

Sample Matrix: Water

LCS Source: MTHGCALW_01890

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	5.36		107	80	120		7470A

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

FORM VIIA - IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton

Job No.: 240-99625-1

SDG No.: _____

Instrument ID: NOEQUIP

Analysis Method: SM 2340B

Start Date: 08/20/2018 15:12

End Date: 08/20/2018 15:12

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				C a c o 3	H a r d C C D	M g H A R D																							
240-99625-1	1	D	15:12	X	X	X																							
240-99625-2	1	D	15:12	X	X	X																							
240-99625-3	1	D	15:12	X	X	X																							
240-99625-4	1	D	15:12	X	X	X																							
240-99625-5	1	D	15:12	X	X	X																							
240-99625-6	1	D	15:12	X	X	X																							
240-99625-7	1	D	15:12	X	X	X																							
240-99625-8	1	D	15:12	X	X	X																							
240-99625-9	1	D	15:12	X	X	X																							
240-99625-10	1	D	15:12	X	X	X																							
240-99625-11	1	D	15:12	X	X	X																							
240-99625-12	1	D	15:12	X	X	X																							
240-99625-13	1	D	15:12	X	X	X																							
240-99625-14	1	D	15:12	X	X	X																							
240-99625-15	1	D	15:12	X	X	X																							
240-99625-16	1	D	15:12	X	X	X																							
240-99625-17	1	D	15:12	X	X	X																							
240-99625-18	1	D	15:12	X	X	X																							
240-99625-19	1	D	15:12	X	X	X																							
240-99625-20	1	D	15:12	X	X	X																							
240-99625-21	1	D	15:12	X	X	X																							
240-99625-22	1	D	15:12	X	X	X																							
240-99625-23	1	D	15:12	X	X	X																							
240-99625-24	1	D	15:12	X	X	X																							
240-99625-25	1	D	15:12	X	X	X																							
240-99625-26	1	D	15:12	X	X	X																							
240-99625-27	1	D	15:12	X	X	X																							
240-99625-28	1	D	15:12	X	X	X																							
240-99625-29	1	D	15:12	X	X	X																							
240-99625-30	1	D	15:12	X	X	X																							
240-99625-31	1	D	15:12	X	X	X																							
240-99625-32	1	D	15:12	X	X	X																							
240-99625-33	1	D	15:12	X	X	X																							
240-99625-34	1	D	15:12	X	X	X																							
240-99625-35	1	D	15:12	X	X	X																							
240-99625-36	1	D	15:12	X	X	X																							
ZZZZZZ			15:12																										
ZZZZZZ			15:12																										

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Instrument ID: NOEQUIP Analysis Method: SM 2340B

Start Date: 08/20/2018 15:12 End Date: 08/20/2018 15:12

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				C	H	M																							
ZZZZZZ			15:12	a	a	g																							
ZZZZZZ			15:12	C	r	H																							
				O	d	A																							
				3	C	R																							
				C	D																								

Prep Types: _____
D = Dissolved

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Batch Number: 340095 Batch Start Date: 08/09/18 15:00 Batch Analyst: Butke, MichaelBatch Method: 3005A Batch End Date: 08/09/18 23:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTICPMS2 00034	MTICPMSA 00036	MTICPMSB 00036	MTTMHCL 00213
MB 240-340095/1		3005A, 6020		50 mL	50 mL				2.5 mL
LCS 240-340095/2		3005A, 6020		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	2.5 mL
240-99625-D-21	MSA-SW42A-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-22	MSA-SW42B-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-23	MSA-SW42C-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-24	MSA-SW42D-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-25	MSA-SW43A-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-26	MSA-SW43B-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-27	MSA-SW43C-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-28	MSA-SW43D-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-29	MSA-SW44A-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-30	MSA-SW44B-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-31	MSA-SW44C-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-32	MSA-SW44D-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-33	MSA-SW45A-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-34	MSA-SW45B-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-35	MSA-SW45C-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-36	MSA-SW45D-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00163					
MB 240-340095/1		3005A, 6020		1 mL					
LCS 240-340095/2		3005A, 6020		1 mL					
240-99625-D-21	MSA-SW42A-080718	3005A, 6020	D	1 mL					
240-99625-D-22	MSA-SW42B-080718	3005A, 6020	D	1 mL					
240-99625-D-23	MSA-SW42C-080718	3005A, 6020	D	1 mL					
240-99625-D-24	MSA-SW42D-080718	3005A, 6020	D	1 mL					
240-99625-D-25	MSA-SW43A-080718	3005A, 6020	D	1 mL					
240-99625-D-26	MSA-SW43B-080718	3005A, 6020	D	1 mL					
240-99625-D-27	MSA-SW43C-080718	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.: 240-99625-1

SDG No.: _____

Batch Number: 340095 Batch Start Date: 08/09/18 15:00 Batch Analyst: Butke, MichaelBatch Method: 3005A Batch End Date: 08/09/18 23:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00163					
240-99625-D-28	MSA-SW43D-080718	3005A, 6020	D	1 mL					
240-99625-D-29	MSA-SW44A-080718	3005A, 6020	D	1 mL					
240-99625-D-30	MSA-SW44B-080718	3005A, 6020	D	1 mL					
240-99625-D-31	MSA-SW44C-080718	3005A, 6020	D	1 mL					
240-99625-D-32	MSA-SW44D-080718	3005A, 6020	D	1 mL					
240-99625-D-33	MSA-SW45A-080718	3005A, 6020	D	1 mL					
240-99625-D-34	MSA-SW45B-080718	3005A, 6020	D	1 mL					
240-99625-D-35	MSA-SW45C-080718	3005A, 6020	D	1 mL					
240-99625-D-36	MSA-SW45D-080718	3005A, 6020	D	1 mL					

Batch Notes	
Batch Comment	filter paper 60824109
Temperature - Corrected - End	temp log Degrees C
Temperature - Corrected - Start	temp log Degrees C
Digestion Unit ID	hb0
Pipette/Syringe/Dispenser ID	mp3
Thermometer ID	temp log
Digestion Tube/Cup ID	1802043
Temperature - Uncorrected - End	temp log Degrees C
Temperature - Uncorrected - Start	temp log Degrees C

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica CantonJob No.: 240-99625-1

SDG No.: _____

Batch Number: 340099Batch Start Date: 08/09/18 15:00Batch Analyst: Butke, MichaelBatch Method: 3005ABatch End Date: 08/09/18 23:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTICPMS2 00034	MTICPMSA 00036	MTICPMSB 00036	MTTMHCL 00213
MB 240-340099/1		3005A, 6020		50 mL	50 mL				2.5 mL
LCS 240-340099/2		3005A, 6020		50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	2.5 mL
240-99625-D-1	MSA-SW37A-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-1 MS	MSA-SW37A-080718	3005A, 6020	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	2.5 mL
240-99625-D-1 MSD	MSA-SW37A-080718	3005A, 6020	D	50 mL	50 mL	0.5 mL	0.5 mL	0.5 mL	2.5 mL
240-99625-D-2	MSA-SW37B-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-3	MSA-SW37C-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-4	MSA-SW37D-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-5	MSA-SW38A-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-6	MSA-SW38B-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-7	MSA-SW38C-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-8	MSA-SW38D-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-9	MSA-SW39A-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-10	MSA-SW39B-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-11	MSA-SW39C-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-12	MSA-SW39D-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-13	MSA-SW40A-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-14	MSA-SW40B-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-15	MSA-SW40C-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-16	MSA-SW40D-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-17	MSA-SW41A-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-18	MSA-SW41B-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-19	MSA-SW41C-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL
240-99625-D-20	MSA-SW41D-080718	3005A, 6020	D	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00163				
MB 240-340099/1		3005A, 6020		1 mL				
LCS 240-340099/2		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.: 240-99625-1

SDG No.: _____

Batch Number: 340099 Batch Start Date: 08/09/18 15:00 Batch Analyst: Butke, MichaelBatch Method: 3005A Batch End Date: 08/09/18 23:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00163					
240-99625-D-1	MSA-SW37A-080718	3005A, 6020	D	1 mL					
240-99625-D-1 MS	MSA-SW37A-080718	3005A, 6020	D	1 mL					
240-99625-D-1 MSD	MSA-SW37A-080718	3005A, 6020	D	1 mL					
240-99625-D-2	MSA-SW37B-080718	3005A, 6020	D	1 mL					
240-99625-D-3	MSA-SW37C-080718	3005A, 6020	D	1 mL					
240-99625-D-4	MSA-SW37D-080718	3005A, 6020	D	1 mL					
240-99625-D-5	MSA-SW38A-080718	3005A, 6020	D	1 mL					
240-99625-D-6	MSA-SW38B-080718	3005A, 6020	D	1 mL					
240-99625-D-7	MSA-SW38C-080718	3005A, 6020	D	1 mL					
240-99625-D-8	MSA-SW38D-080718	3005A, 6020	D	1 mL					
240-99625-D-9	MSA-SW39A-080718	3005A, 6020	D	1 mL					
240-99625-D-10	MSA-SW39B-080718	3005A, 6020	D	1 mL					
240-99625-D-11	MSA-SW39C-080718	3005A, 6020	D	1 mL					
240-99625-D-12	MSA-SW39D-080718	3005A, 6020	D	1 mL					
240-99625-D-13	MSA-SW40A-080718	3005A, 6020	D	1 mL					
240-99625-D-14	MSA-SW40B-080718	3005A, 6020	D	1 mL					
240-99625-D-15	MSA-SW40C-080718	3005A, 6020	D	1 mL					
240-99625-D-16	MSA-SW40D-080718	3005A, 6020	D	1 mL					
240-99625-D-17	MSA-SW41A-080718	3005A, 6020	D	1 mL					
240-99625-D-18	MSA-SW41B-080718	3005A, 6020	D	1 mL					
240-99625-D-19	MSA-SW41C-080718	3005A, 6020	D	1 mL					
240-99625-D-20	MSA-SW41D-080718	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.: 240-99625-1

SDG No.: _____

Batch Number: 340099 Batch Start Date: 08/09/18 15:00 Batch Analyst: Butke, MichaelBatch Method: 3005A Batch End Date: 08/09/18 23:00

Batch Notes	
Batch Comment	filter paper 60824109
Temperature - Corrected - End	temp log Degrees C
Temperature - Corrected - Start	temp log Degrees C
Digestion Unit ID	hb1
Pipette/Syringe/Dispenser ID	mp3
Thermometer ID	temp log
Digestion Tube/Cup ID	1802043
Temperature - Uncorrected - End	temp log Degrees C
Temperature - Uncorrected - Start	temp log Degrees C

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Batch Number: 339963 Batch Start Date: 08/08/18 08:45 Batch Analyst: Colosi, Alexander JBatch Method: 7470A Batch End Date: 08/08/18 10:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00086	MTH2S04 00060	MTHGCALW 01889	MTHgICV_00001 00378
ICV 240-339963/7		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		2.5 mL
ICB 240-339963/8		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		
CRA 240-339963/9		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	0.1 mL	
CCV 240-339963/10		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	
CCB 240-339963/11		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTKMN04W 00169	MTTMHNO3 00163				
ICV 240-339963/7		7470A, 7470A		7.5 mL	1.25 mL				
ICB 240-339963/8		7470A, 7470A		7.5 mL	1.25 mL				
CRA 240-339963/9		7470A, 7470A		7.5 mL	1.25 mL				
CCV 240-339963/10		7470A, 7470A		7.5 mL	1.25 mL				
CCB 240-339963/11		7470A, 7470A		7.5 mL	1.25 mL				

Batch Notes	
Batch Comment	takeout temp in range
Digestion Unit ID	C2
Pipette/Syringe/Dispenser ID	A2, A7, LL4

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

7470A

Page 1 of 1

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Batch Number: 340096 Batch Start Date: 08/09/18 14:00 Batch Analyst: Butke, Michael

Batch Method: 7470A Batch End Date: 08/09/18 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00086	MTH2S04 00060	MTHGCAIW 01890	MTKMNO4W 00170
MB 240-340096/1		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		7.5 mL
LCS 240-340096/2		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	7.5 mL
240-99625-D-21	MSA-SW42A-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-22	MSA-SW42B-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-23	MSA-SW42C-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-24	MSA-SW42D-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-25	MSA-SW43A-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-26	MSA-SW43B-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-27	MSA-SW43C-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-28	MSA-SW43D-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-29	MSA-SW44A-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-30	MSA-SW44B-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-31	MSA-SW44C-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-32	MSA-SW44D-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-33	MSA-SW45A-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-34	MSA-SW45B-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-35	MSA-SW45C-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-36	MSA-SW45D-080718	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 00163					
MB 240-340096/1		7470A, 7470A		1.25 mL					
LCS 240-340096/2		7470A, 7470A		1.25 mL					
240-99625-D-21	MSA-SW42A-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-22	MSA-SW42B-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-23	MSA-SW42C-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-24	MSA-SW42D-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-25	MSA-SW43A-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-26	MSA-SW43B-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-27	MSA-SW43C-080718	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.: 240-99625-1

SDG No.: _____

Batch Number: 340096 Batch Start Date: 08/09/18 14:00 Batch Analyst: Butke, MichaelBatch Method: 7470A Batch End Date: 08/09/18 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00163					
240-99625-D-28	MSA-SW43D-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-29	MSA-SW44A-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-30	MSA-SW44B-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-31	MSA-SW44C-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-32	MSA-SW44D-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-33	MSA-SW45A-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-34	MSA-SW45B-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-35	MSA-SW45C-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-36	MSA-SW45D-080718	7470A, 7470A	D	1.25 mL					

Batch Notes	
Batch Comment	take out temps in range
Temperature - Corrected - End	temp log Degrees C
Temperature - Corrected - Start	temp log Degrees C
Digestion Unit ID	c1
Pipette/Syringe/Dispenser ID	mp2, mp3
Thermometer ID	temp log
Digestion Tube/Cup ID	1802043
Temperature - Uncorrected - End	temp log Degrees C
Temperature - Uncorrected - Start	temp log Degrees C

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

7470A

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METALS BATCH WORKSHEET

Lab Name: TestAmerica CantonJob No.: 240-99625-1

SDG No.: _____

Batch Number: 340101Batch Start Date: 08/09/18 14:00Batch Analyst: Butke, MichaelBatch Method: 7470ABatch End Date: 08/09/18 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00086	MTH2S04 00060	MTHGCALW 01890	MTKMN04W 00170
MB 240-340101/1		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		7.5 mL
LCS 240-340101/2		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	7.5 mL
240-99625-D-1	MSA-SW37A-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-1 MS	MSA-SW37A-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-99625-D-1 MSD	MSA-SW37A-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-99625-D-2	MSA-SW37B-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-3	MSA-SW37C-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-4	MSA-SW37D-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-5	MSA-SW38A-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-6	MSA-SW38B-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-7	MSA-SW38C-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-8	MSA-SW38D-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-9	MSA-SW39A-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-10	MSA-SW39B-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-11	MSA-SW39C-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-12	MSA-SW39D-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-13	MSA-SW40A-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-14	MSA-SW40B-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-15	MSA-SW40C-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-16	MSA-SW40D-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-17	MSA-SW41A-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-18	MSA-SW41B-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-19	MSA-SW41C-080718	7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-99625-D-20	MSA-SW41D-080718	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 00163					
MB 240-340101/1		7470A, 7470A		1.25 mL					
LCS 240-340101/2		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.

7470A

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METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Batch Number: 340101 Batch Start Date: 08/09/18 14:00 Batch Analyst: Butke, MichaelBatch Method: 7470A Batch End Date: 08/09/18 16:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00163					
240-99625-D-1	MSA-SW37A-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-1 MS	MSA-SW37A-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-1 MSD	MSA-SW37A-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-2	MSA-SW37B-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-3	MSA-SW37C-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-4	MSA-SW37D-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-5	MSA-SW38A-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-6	MSA-SW38B-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-7	MSA-SW38C-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-8	MSA-SW38D-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-9	MSA-SW39A-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-10	MSA-SW39B-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-11	MSA-SW39C-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-12	MSA-SW39D-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-13	MSA-SW40A-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-14	MSA-SW40B-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-15	MSA-SW40C-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-16	MSA-SW40D-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-17	MSA-SW41A-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-18	MSA-SW41B-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-19	MSA-SW41C-080718	7470A, 7470A	D	1.25 mL					
240-99625-D-20	MSA-SW41D-080718	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

Page 2 of 3

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-99625-1

SDG No.: _____

Batch Number: 340101 Batch Start Date: 08/09/18 14:00 Batch Analyst: Butke, MichaelBatch Method: 7470A Batch End Date: 08/09/18 16:00

Batch Notes	
Batch Comment	take out temps in range
Temperature - Corrected - End	temp log Degrees C
Temperature - Corrected - Start	temp log Degrees C
Digestion Unit ID	b1
Pipette/Syringe/Dispenser ID	mp2, mp3
Thermometer ID	temp log
Digestion Tube/Cup ID	1802043
Temperature - Uncorrected - End	temp log Degrees C
Temperature - Uncorrected - Start	temp log Degrees C

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



INTERNAL CORRESPONDENCE

TO:	M. MARTIN	DATE:	OCTOBER 15, 2018
FROM:	MICHELLE L. WOEBER	COPIES:	DV FILE
SUBJECT:	INORGANIC DATA VALIDATION – HEXAVALENT CHROMIUM LOCKHEED MARTIN CORPORATION (LMC) – MARTIN STATE AIRPORT (MSA) FROG MORTAR CREEK SAMPLE DELIVERY GROUP (SDG) TLG-028		
SAMPLES:	36/Aqueous/Hexavalent Chromium		

MSA-SW37A-080718	MSA-SW37B-080718	MSA-SW37C-080718
MSA-SW37D-080718	MSA-SW38A-080718	MSA-SW38B-080718
MSA-SW38C-080718	MSA-SW38D-080718	MSA-SW39A-080718
MSA-SW39B-080718	MSA-SW39C-080718	MSA-SW39D-080718
MSA-SW40A-080718	MSA-SW40B-080718	MSA-SW40C-080718
MSA-SW40D-080718	MSA-SW41A-080718	MSA-SW41B-080718
MSA-SW41C-080718	MSA-SW41D-080718	MSA-SW42A-080718
MSA-SW42B-080718	MSA-SW42C-080718	MSA-SW42D-080718
MSA-SW43A-080718	MSA-SW43B-080718	MSA-SW43C-080718
MSA-SW43D-080718	MSA-SW44A-080718	MSA-SW44B-080718
MSA-SW44C-080718	MSA-SW44D-080718	MSA-SW45A-080718
MSA-SW45B-080718	MSA-SW45C-080718	MSA-SW45D-080718

Overview

The sample set for LMC – MSA Frog Mortar Creek, SDG TLG-028 consisted of thirty-six (36) aqueous environmental samples. All thirty-six (36) aqueous samples were analyzed for hexavalent chromium. No field duplicate pair was included in the sample delivery group (SDG).

The samples were collected by Tetra Tech, Inc. on August 7, 2018 and analyzed by ALS Environmental. All analyses were conducted in accordance with EPA Method 218.6 analytical and reporting protocols.

The data contained in these SDGs were validated with regard to the following parameters: data completeness, holding times and sample preservation, initial/continuing calibrations, laboratory method blank results, laboratory control sample results, matrix spike/matrix spike duplicate results, chromatographic resolution, analyte quantitation, and detection limits. Areas of concern are listed below.

Major

No major issues were identified.

Minor

No minor issues were identified.

Notes

All samples were properly preserved to a pH of 9.0 – 9.5 and analyzed within 24 hours of sample receipt.

The non-detected results were reported to the Method Detection Limit (MDL).

TO: M. MARTIN
SDG: TLG-028

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Executive Summary

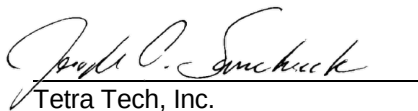
Laboratory Performance: None.

Other Factors Affecting Data Quality: None.

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



Tetra Tech, Inc.
Michelle L. Woeber
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

Data Qualifier Definitions

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

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

Appendix A

Qualified Analytical Results

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $>40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $<30\%$
- Z = Uncertainty at 2 standard deviations is greater than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed
- Z3 = Tentatively Identified Compound aldol condensate
- Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
- Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 08424 SDG: TLG-028 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW37A-080718			MSA-SW37B-080718			MSA-SW37C-080718			MSA-SW37D-080718		
	LAB_ID	2330875001			2330875002			2330875003			2330875004		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.047	U		0.047	U		0.047	U		0.047	U	

PROJ_NO: 08424 SDG: TLG-028 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW38A-080718			MSA-SW38B-080718			MSA-SW38C-080718			MSA-SW38D-080718		
	LAB_ID	2330875005			2330875006			2330875007			2330875008		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.047	U		0.047	U		0.047	U		0.047	U	

PROJ_NO: 08424 SDG: TLG-028 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW39A-080718			MSA-SW39B-080718			MSA-SW39C-080718			MSA-SW39D-080718		
	LAB_ID	2330875009			2330875010			2330875011			2330875012		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.047	U		0.047	U		0.047	U		0.047	U	

PROJ_NO: 08424 SDG: TLG-028 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW40A-080718			MSA-SW40B-080718			MSA-SW40C-080718			MSA-SW40D-080718		
	LAB_ID	2330875013			2330875014			2330875015			2330875016		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.047	U		0.047	U		0.047	U		0.047	U	

PROJ_NO: 08424 SDG: TLG-028 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW41A-080718			MSA-SW41B-080718			MSA-SW41C-080718			MSA-SW41D-080718		
	LAB_ID	2330875017			2330875018			2330875019			2330875020		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.047	U		0.047	U		0.047	U		0.047	U	

PROJ_NO: 08424 SDG: TLG-028 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW42A-080718			MSA-SW42B-080718			MSA-SW42C-080718			MSA-SW42D-080718		
	LAB_ID	2330875021			2330875022			2330875023			2330875024		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.047	U		0.047	U		0.047	U		0.047	U	

PROJ_NO: 08424 SDG: TLG-028 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW43A-080718			MSA-SW43B-080718			MSA-SW43C-080718			MSA-SW43D-080718		
	LAB_ID	2330875025			2330875026			2330875027			2330875028		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.047	U		0.047	U		0.047	U		0.047	U	

PROJ_NO: 08424 SDG: TLG-028 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW44A-080718			MSA-SW44B-080718			MSA-SW44C-080718			MSA-SW44D-080718		
	LAB_ID	2330875029			2330875030			2330875031			2330875032		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.047	U		0.047	U		0.047	U		0.047	U	

PROJ_NO: 08424 SDG: TLG-028 FRACTION: MISC MEDIA: WATER	NSAMPLE	MSA-SW45A-080718			MSA-SW45B-080718			MSA-SW45C-080718			MSA-SW45D-080718		
	LAB_ID	2330875033			2330875034			2330875035			2330875036		
	SAMP_DATE	8/7/2018			8/7/2018			8/7/2018			8/7/2018		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.047	U		0.047	U		0.047	U		0.047	U	

Appendix B

Results as Reported by the Laboratory

ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875001** Date Collected: 8/7/2018 13:45 Matrix: Water
Sample ID: **MSA-SW37A-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 02:53	MBW	A



Mrs. Vanessa N Badman
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875002** Date Collected: 8/7/2018 13:49 Matrix: Water
Sample ID: **MSA-SW37B-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 03:20	MBW	A



Mrs. Vanessa N Badman
Project Coordinator

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**ANALYTICAL RESULTS**

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875003**

Date Collected: 8/7/2018 13:53

Matrix: Water

Sample ID: **MSA-SW37C-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 03:29	MBW	A

Mrs. Vanessa N Badman

Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875004** Date Collected: 8/7/2018 13:57 Matrix: Water
Sample ID: **MSA-SW37D-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 03:38	MBW	A



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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875005** Date Collected: 8/7/2018 12:45 Matrix: Water
Sample ID: **MSA-SW38A-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 03:47	MBW	A



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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875006**

Date Collected: 8/7/2018 12:50

Matrix: Water

Sample ID: **MSA-SW38B-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 03:56	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875007** Date Collected: 8/7/2018 12:54 Matrix: Water
Sample ID: **MSA-SW38C-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 04:05	MBW	A



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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875008** Date Collected: 8/7/2018 12:59 Matrix: Water
Sample ID: **MSA-SW38D-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 04:15	MBW	A



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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875009**

Date Collected: 8/7/2018 10:50

Matrix: Water

Sample ID: **MSA-SW39A-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 04:24	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875010**
Sample ID: **MSA-SW39B-080718**

Date Collected: 8/7/2018 10:53 Matrix: Water
Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 04:33	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875011** Date Collected: 8/7/2018 10:56 Matrix: Water
Sample ID: **MSA-SW39C-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 05:00	MBW	A



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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875012**
Sample ID: **MSA-SW39D-080718**

Date Collected: 8/7/2018 10:59 Matrix: Water
Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 05:27	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875013** Date Collected: 8/7/2018 13:09 Matrix: Water
Sample ID: **MSA-SW40A-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 05:37	MBW	A



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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875014**
Sample ID: **MSA-SW40B-080718**

Date Collected: 8/7/2018 13:14 Matrix: Water
Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 05:46	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875015** Date Collected: 8/7/2018 13:17 Matrix: Water
Sample ID: **MSA-SW40C-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 05:55	MBW	A



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**ANALYTICAL RESULTS**

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875016**

Date Collected: 8/7/2018 13:20

Matrix: Water

Sample ID: **MSA-SW40D-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 06:04	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875017**

Date Collected: 8/7/2018 12:24

Matrix: Water

Sample ID: **MSA-SW41A-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 06:13	MBW	A

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**ANALYTICAL RESULTS**

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875018**

Date Collected: 8/7/2018 12:29

Matrix: Water

Sample ID: **MSA-SW41B-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 06:22	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875019**

Date Collected: 8/7/2018 12:33

Matrix: Water

Sample ID: **MSA-SW41C-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 06:31	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875020** Date Collected: 8/7/2018 12:37 Matrix: Water
Sample ID: **MSA-SW41D-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 06:40	MBW	A



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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875021**

Date Collected: 8/7/2018 13:29

Matrix: Water

Sample ID: **MSA-SW42A-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 07:26	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875022** Date Collected: 8/7/2018 13:33 Matrix: Water
Sample ID: **MSA-SW42B-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 07:53	MBW	A



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**ANALYTICAL RESULTS**

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875023**

Date Collected: 8/7/2018 13:37

Matrix: Water

Sample ID: **MSA-SW42C-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 08:02	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875024** Date Collected: 8/7/2018 13:40 Matrix: Water
Sample ID: **MSA-SW42D-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 08:11	MBW	A



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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875025**

Date Collected: 8/7/2018 12:01

Matrix: Water

Sample ID: **MSA-SW43A-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 08:20	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875026**

Date Collected: 8/7/2018 12:05

Matrix: Water

Sample ID: **MSA-SW43B-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 08:29	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875027** Date Collected: 8/7/2018 12:10 Matrix: Water
Sample ID: **MSA-SW43C-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 08:39	MBW	A



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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875028** Date Collected: 8/7/2018 12:15 Matrix: Water
Sample ID: **MSA-SW43D-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 08:48	MBW	A



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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875029**

Date Collected: 8/7/2018 11:40

Matrix: Water

Sample ID: **MSA-SW44A-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 08:57	MBW	A

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**ANALYTICAL RESULTS**

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875030**

Date Collected: 8/7/2018 11:47

Matrix: Water

Sample ID: **MSA-SW44B-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 09:06	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875031**

Date Collected: 8/7/2018 11:52

Matrix: Water

Sample ID: **MSA-SW44C-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 09:33	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875032** Date Collected: 8/7/2018 11:55 Matrix: Water
Sample ID: **MSA-SW44D-080718** Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 10:00	MBW	A



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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875033**

Date Collected: 8/7/2018 11:20

Matrix: Water

Sample ID: **MSA-SW45A-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 10:09	MBW	A

Mrs. Vanessa N Badman

Project Coordinator

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**ANALYTICAL RESULTS**

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875034**

Date Collected: 8/7/2018 11:26

Matrix: Water

Sample ID: **MSA-SW45B-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 10:18	MBW	A

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ANALYTICAL RESULTS

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875035**

Date Collected: 8/7/2018 11:31

Matrix: Water

Sample ID: **MSA-SW45C-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 10:27	MBW	A

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**ANALYTICAL RESULTS**

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID: **2330875036**

Date Collected: 8/7/2018 11:35

Matrix: Water

Sample ID: **MSA-SW45D-080718**

Date Received: 8/7/2018 22:00

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr

WET CHEMISTRY

Hexavalent Chromium	ND		ug/L	0.25	0.047	EPA 218.6		8/8/18 10:36	MBW	A

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Appendix C

Support Documentation

Middletown

34 Dogwood Lane
Middletown, PA

Chain of Custody Record



Mental

Client Contact		Project Manager: Tony Apanavage		Site Contact: Tony Apanavage		Date: 8/7/2018		COC No:	
Tetra Tech		Tel/Fax: 301-233-8230 (cell)		Lab Contact: Vanessa Badman		Carrier: Fedex		1 of 3 COCs	
20251 Century Blvd, Suite 200		Analysis Turnaround Time		Filtered Sample ☐ Dissolved Hexavalent Chromium (218) ☐				Job No.	
Germantown, MD 20874		Calendar (C) or Work Days (W)						SDG No.	
(301) 528-3021 Phone		TAT if different from Below: 24 HR HOLD TIME						Sampler: Mullis	
(301) 528-3000 FAX		☐ 2 weeks						Sample Specific Notes:	
Project Name: MSA Surface Water Sampling		☐ 1 week							
Site: MSA Frog Mortar Creek		☐ 2 days							
Project # 112IC08424		☐ 1 day							
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.				
MSA-SW37A-080718	8/7/2018	1345	SW	Water	1	x			
MSA-SW37B-080718	8/7/2018	1349	SW	Water	1	x			
MSA-SW37C-080718	8/7/2018	1353	SW	Water	1	x			
MSA-SW37D-080718	8/7/2018	1357	SW	Water	1	x			
MSA-SW38A-080718	8/7/2018	1245	SW	Water	1	x			
MSA-SW38B-080718	8/7/2018	1250	SW	Water	1	x			
MSA-SW38C-080718	8/7/2018	1254	SW	Water	1	x			
MSA-SW38D-080718	8/7/2018	1259	SW	Water	1	x			
MSA-SW39A-080718	8/7/2018	1050	SW	Water	1	x			
MSA-SW39B-080718	8/7/2018	1053	SW	Water	1	x			
MSA-SW39C-080718	8/7/2018	1056	SW	Water	1	x			
MSA-SW39D-080718	8/7/2018	1059	SW	Water	1	x			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Hex chrome buffer						6			
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. Filtered in Field									
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				
<i>[Signature]</i>	Tetra Tech	8/7/18 1515	<i>[Signature]</i>	ALS	8/7/18 1520				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				
<i>[Signature]</i>	ALS	8/7/18 1849	COMMON COURIER / ALS COURIER						
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				
COMMON COURIER / ALS COURIER			<i>[Signature]</i> ALS		8/7/18 2200				

2330875

Middletown

34 Dogwood Lane
Middletown, PA

Chain of Custody Record



Client Contact		Project Manager: Tony Apanavage		Site Contact: Tony Apanavage		Date: 8/7/2018		COC No:	
Tetra Tech		Tel/Fax: 301-233-8230 (cell)		Lab Contact: Vanessa Badman		Carrier: Fedex		2 of 3 COCs	
20251 Century Blvd, Suite 200		Analysis Turnaround Time		Filtered Sample Dissolved Hexavalent Chromium (218)				Job No.	
Germantown, MD 20874		Calendar (C) or Work Days (W)						SDG No.	
(301) 528-3021 Phone		TAT if different from Below: 24 HR HOLD TIME						Sampler: Mullis	
(301) 528-3000 FAX		☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day						Sample Specific Notes:	
Project Name: MSA Surface Water Sampling									
Site: MSA Frog Mortar Creek									
Project # 112IC08424									
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.				
MSA-SW40A-080718	8/7/2018	1304	SW	Water	1	x			
MSA-SW40B-080718	8/7/2018	1314	SW	Water	1	x			
MSA-SW40C-080718	8/7/2018	1317	SW	Water	1	x			
MSA-SW40D-080718	8/7/2018	1320	SW	Water	1	x			
MSA-SW41A-080718	8/7/2018	1224	SW	Water	1	x			
MSA-SW41B-080718	8/7/2018	1229	SW	Water	1	x			
MSA-SW41C-080718	8/7/2018	1233	SW	Water	1	x			
MSA-SW41D-080718	8/7/2018	1237	SW	Water	1	x			
MSA-SW42A-080718	8/7/2018	1329	SW	Water	1	x			
MSA-SW42B-080718	8/7/2018	1333	SW	Water	1	x			
MSA-SW42C-080718	8/7/2018	1337	SW	Water	1	x			
MSA-SW42D-080718	8/7/2018	1340	SW	Water	1	x			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other Hex Chrom Buffer						6			
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
☒ 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. Filtered in Field									
Relinquished by: <i>Justin Lee</i>		Company: Tetra Tech		Date/Time: 8/7/18 1515		Received by: <i>Curran</i>		Company: <i>ALS</i>	
Relinquished by: <i>Curran</i>		Company: <i>ALS</i>		Date/Time: 8/7/18 1847		Received by: COMMON COURIER / ALS COURIER		Company: <i>ALS</i>	
Relinquished by: COMMON COURIER / ALS COURIER		Company:		Date/Time:		Received by: <i>gn</i>		Company: <i>ALS</i>	
								Date/Time: 8/7/18 2200	

2330875

Middletown

34 Dogwood Lane
Middletown, PA

Chain of Custody Record



Client Contact		Project Manager: Tony Apanavage		Site Contact: Tony Apanavage		Date: 8/7/2018		COC No:	
Tetra Tech		Tel/Fax: 301-233-8230 (cell)		Lab Contact: Vanessa Badman		Carrier: Fedex		3 of 3 COCs	
20251 Century Blvd, Suite 200		Analysis Turnaround Time		Filtered Sample ☐ Dissolved Hexavalent Chromium (218) ☐				Job No.	
Germantown, MD 20874		Calendar (C) or Work Days (W)						SDG No.	
(301) 528-3021 Phone		TAT if different from Below: 24 HR HOLD TIME						Sampler: Mullis	
(301) 528-3000 FAX		☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day						Sample Specific Notes:	
Project Name: MSA Surface Water Sampling									
Site: MSA Frog Mortar Creek									
Project # 112IC08424									
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.				
MSA-SW43A-080718	8/7/2018	1201	SW	Water	1	x			
MSA-SW43B-080718	8/7/2018	1205	SW	Water	1	x			
MSA-SW43C-080718	8/7/2018	1210	SW	Water	1	x			
MSA-SW43D-080718	8/7/2018	1215	SW	Water	1	x			
MSA-SW44A-080718	8/7/2018	1140	SW	Water	1	x			
MSA-SW44B-080718	8/7/2018	1147	SW	Water	1	x			
MSA-SW44C-080718	8/7/2018	1152	SW	Water	1	x			
MSA-SW44D-080718	8/7/2018	1155	SW	Water	1	x			
MSA-SW45A-080718	8/7/2018	1120	SW	Water	1	x			
MSA-SW45B-080718	8/7/2018	1126	SW	Water	1	x			
MSA-SW45C-080718	8/7/2018	1131	SW	Water	1	x			
MSA-SW45D-080718	8/7/2018	1135	SW	Water	1	x			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Hex Chrom buffer						6			
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
☒ 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. Filtered in Field									
Relinquished by: <i>[Signature]</i>		Company: tetratech		Date/Time: 1515 8/7/18		Received by: <i>[Signature]</i>		Company: ALS Date/Time: 8/7/18 1520	
Relinquished by: <i>[Signature]</i>		Company: ALS		Date/Time: 8/7 1847		Received by: COMMON COURIER / ALS COURIER		Company: COMMON COURIER Date/Time:	
Relinquished by: COMMON COURIER / ALS COURIER		Company:		Date/Time:		Received by: <i>[Signature]</i>		Company: ALS Date/Time: 8/7/18 2200	

230875

Tetra Tech

	Y	N	Initials	Cooler Temp: _____ °C
Custody Seals Present?	☒	☐	GM	2
(if present) Seals Intact?	☒	☐		Cooler #. _____
Received on Ice?	☒	☐		Therm ID. _____
COC/Lbls Complete	☒	☐		359
Cont in Good Cond?	☒	☐		Ship Carrier _____
Correct Containers?	☒	☐		FedEx UPS
Correct Samp Vol?	☒	☐		DHL _____
Correct Preservation?	☒	☐		
Headspace/Volatiles?	☒	☐		

Tracking # AIS / MD 8080707

Tetra Tech, Inc.

**ALS-Middletown
Case Narrative
TLG-028**

Sample Management

This report contains the results of the analysis of thirty-six (36) water samples collected on August 7, 2018. Analytical results and quality control information are summarized in this data package.

Sample Receipt

The samples arrived at ALS via courier on August 7, 2018. Upon receipt, the samples were inspected and compared to the Chain of Custody. Sample temperature was documented on the enclosed Chain of Custody. The samples were received intact and properly preserved, unless noted on the enclosed Certificate of Analysis and/or Chain of Custody.

Hexavalent Chromium by EPA Method 218.6

Sample handling. Thirty-six (36) aqueous samples were analyzed for hexavalent chromium by EPA Method 218.6. The samples were pH adjusted using ammonium sulfate buffer to a range of 9.3-9.7 and analyzed within the 28-day hold time.

Calibration. A monthly calibration was properly established on instrument IC#4 on 8/8/2018. Continuing calibration verification standards were analyzed to verify the calibration. The standards were within the QC limits.

Blanks. Method blanks were analyzed with the samples. Hexavalent chromium was not detected above the reporting limit of 0.25 µg/L in the blanks.

Laboratory Control Samples. Laboratory control samples identified as 2787942, 2787944, 2787952, and 2787954 were analyzed with the samples. All recoveries were within QC criteria.

Spikes. Matrix spike and matrix spike duplicate analyses identified as 2787945 and 2787946 was performed on sample 2330875001 (MSA-SW37A-080718). All recoveries were within QC limits.

Matrix spike and matrix spike duplicate analyses identified as 2787949 and 2787950 was performed on sample 2330875011 (MSA-SW39C-080718). All recoveries were within QC limits.

Matrix spike and matrix spike duplicate analyses identified as 2787955 and 2787956 was performed on sample 2330875021 (MSA-SW42A-080718). All recoveries were within QC limits.

Matrix spike and matrix spike duplicate analyses identified as 2787959 and 2787960 was performed on sample 2330875031 (MSA-SW44C-080718). All recoveries were within QC limits.

SAMPLE SUMMARY

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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SAMPLE SUMMARY

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2330875001	MSA-SW37A-080718	Water	8/7/2018 13:45	8/7/2018 22:00	Collected by Client
2330875002	MSA-SW37B-080718	Water	8/7/2018 13:49	8/7/2018 22:00	Collected by Client
2330875003	MSA-SW37C-080718	Water	8/7/2018 13:53	8/7/2018 22:00	Collected by Client
2330875004	MSA-SW37D-080718	Water	8/7/2018 13:57	8/7/2018 22:00	Collected by Client
2330875005	MSA-SW38A-080718	Water	8/7/2018 12:45	8/7/2018 22:00	Collected by Client
2330875006	MSA-SW38B-080718	Water	8/7/2018 12:50	8/7/2018 22:00	Collected by Client
2330875007	MSA-SW38C-080718	Water	8/7/2018 12:54	8/7/2018 22:00	Collected by Client
2330875008	MSA-SW38D-080718	Water	8/7/2018 12:59	8/7/2018 22:00	Collected by Client
2330875009	MSA-SW39A-080718	Water	8/7/2018 10:50	8/7/2018 22:00	Collected by Client
2330875010	MSA-SW39B-080718	Water	8/7/2018 10:53	8/7/2018 22:00	Collected by Client
2330875011	MSA-SW39C-080718	Water	8/7/2018 10:56	8/7/2018 22:00	Collected by Client
2330875012	MSA-SW39D-080718	Water	8/7/2018 10:59	8/7/2018 22:00	Collected by Client
2330875013	MSA-SW40A-080718	Water	8/7/2018 13:09	8/7/2018 22:00	Collected by Client
2330875014	MSA-SW40B-080718	Water	8/7/2018 13:14	8/7/2018 22:00	Collected by Client
2330875015	MSA-SW40C-080718	Water	8/7/2018 13:17	8/7/2018 22:00	Collected by Client
2330875016	MSA-SW40D-080718	Water	8/7/2018 13:20	8/7/2018 22:00	Collected by Client
2330875017	MSA-SW41A-080718	Water	8/7/2018 12:24	8/7/2018 22:00	Collected by Client
2330875018	MSA-SW41B-080718	Water	8/7/2018 12:29	8/7/2018 22:00	Collected by Client
2330875019	MSA-SW41C-080718	Water	8/7/2018 12:33	8/7/2018 22:00	Collected by Client
2330875020	MSA-SW41D-080718	Water	8/7/2018 12:37	8/7/2018 22:00	Collected by Client
2330875021	MSA-SW42A-080718	Water	8/7/2018 13:29	8/7/2018 22:00	Collected by Client
2330875022	MSA-SW42B-080718	Water	8/7/2018 13:33	8/7/2018 22:00	Collected by Client
2330875023	MSA-SW42C-080718	Water	8/7/2018 13:37	8/7/2018 22:00	Collected by Client
2330875024	MSA-SW42D-080718	Water	8/7/2018 13:40	8/7/2018 22:00	Collected by Client
2330875025	MSA-SW43A-080718	Water	8/7/2018 12:01	8/7/2018 22:00	Collected by Client
2330875026	MSA-SW43B-080718	Water	8/7/2018 12:05	8/7/2018 22:00	Collected by Client
2330875027	MSA-SW43C-080718	Water	8/7/2018 12:10	8/7/2018 22:00	Collected by Client
2330875028	MSA-SW43D-080718	Water	8/7/2018 12:15	8/7/2018 22:00	Collected by Client
2330875029	MSA-SW44A-080718	Water	8/7/2018 11:40	8/7/2018 22:00	Collected by Client
2330875030	MSA-SW44B-080718	Water	8/7/2018 11:47	8/7/2018 22:00	Collected by Client
2330875031	MSA-SW44C-080718	Water	8/7/2018 11:52	8/7/2018 22:00	Collected by Client
2330875032	MSA-SW44D-080718	Water	8/7/2018 11:55	8/7/2018 22:00	Collected by Client
2330875033	MSA-SW45A-080718	Water	8/7/2018 11:20	8/7/2018 22:00	Collected by Client
2330875034	MSA-SW45B-080718	Water	8/7/2018 11:26	8/7/2018 22:00	Collected by Client

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**SAMPLE SUMMARY**

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2330875035	MSA-SW45C-080718	Water	8/7/2018 11:31	8/7/2018 22:00	Collected by Client
2330875036	MSA-SW45D-080718	Water	8/7/2018 11:35	8/7/2018 22:00	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

ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID	Sample ID	Analysis Method	Prep Method
2330875001	MSA-SW37A-080718	EPA 218.6	
2330875002	MSA-SW37B-080718	EPA 218.6	
2330875003	MSA-SW37C-080718	EPA 218.6	
2330875004	MSA-SW37D-080718	EPA 218.6	
2330875005	MSA-SW38A-080718	EPA 218.6	
2330875006	MSA-SW38B-080718	EPA 218.6	
2330875007	MSA-SW38C-080718	EPA 218.6	
2330875008	MSA-SW38D-080718	EPA 218.6	
2330875009	MSA-SW39A-080718	EPA 218.6	
2330875010	MSA-SW39B-080718	EPA 218.6	
2330875011	MSA-SW39C-080718	EPA 218.6	
2330875012	MSA-SW39D-080718	EPA 218.6	
2330875013	MSA-SW40A-080718	EPA 218.6	
2330875014	MSA-SW40B-080718	EPA 218.6	
2330875015	MSA-SW40C-080718	EPA 218.6	
2330875016	MSA-SW40D-080718	EPA 218.6	
2330875017	MSA-SW41A-080718	EPA 218.6	
2330875018	MSA-SW41B-080718	EPA 218.6	
2330875019	MSA-SW41C-080718	EPA 218.6	
2330875020	MSA-SW41D-080718	EPA 218.6	
2330875021	MSA-SW42A-080718	EPA 218.6	
2330875022	MSA-SW42B-080718	EPA 218.6	
2330875023	MSA-SW42C-080718	EPA 218.6	
2330875024	MSA-SW42D-080718	EPA 218.6	
2330875025	MSA-SW43A-080718	EPA 218.6	
2330875026	MSA-SW43B-080718	EPA 218.6	
2330875027	MSA-SW43C-080718	EPA 218.6	
2330875028	MSA-SW43D-080718	EPA 218.6	
2330875029	MSA-SW44A-080718	EPA 218.6	
2330875030	MSA-SW44B-080718	EPA 218.6	
2330875031	MSA-SW44C-080718	EPA 218.6	
2330875032	MSA-SW44D-080718	EPA 218.6	
2330875033	MSA-SW45A-080718	EPA 218.6	
2330875034	MSA-SW45B-080718	EPA 218.6	
2330875035	MSA-SW45C-080718	EPA 218.6	
2330875036	MSA-SW45D-080718	EPA 218.6	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2330875001	MSA-SW37A-080718			EPA 218.6	WETC/208563
2330875002	MSA-SW37B-080718			EPA 218.6	WETC/208563
2330875003	MSA-SW37C-080718			EPA 218.6	WETC/208563
2330875004	MSA-SW37D-080718			EPA 218.6	WETC/208563
2330875005	MSA-SW38A-080718			EPA 218.6	WETC/208563
2330875006	MSA-SW38B-080718			EPA 218.6	WETC/208563
2330875007	MSA-SW38C-080718			EPA 218.6	WETC/208563
2330875008	MSA-SW38D-080718			EPA 218.6	WETC/208563
2330875009	MSA-SW39A-080718			EPA 218.6	WETC/208563
2330875010	MSA-SW39B-080718			EPA 218.6	WETC/208563
2330875011	MSA-SW39C-080718			EPA 218.6	WETC/208563
2330875012	MSA-SW39D-080718			EPA 218.6	WETC/208563
2330875013	MSA-SW40A-080718			EPA 218.6	WETC/208563
2330875014	MSA-SW40B-080718			EPA 218.6	WETC/208563
2330875015	MSA-SW40C-080718			EPA 218.6	WETC/208563
2330875016	MSA-SW40D-080718			EPA 218.6	WETC/208563
2330875017	MSA-SW41A-080718			EPA 218.6	WETC/208563
2330875018	MSA-SW41B-080718			EPA 218.6	WETC/208563
2330875019	MSA-SW41C-080718			EPA 218.6	WETC/208563
2330875020	MSA-SW41D-080718			EPA 218.6	WETC/208563
2330875021	MSA-SW42A-080718			EPA 218.6	WETC/208564
2330875022	MSA-SW42B-080718			EPA 218.6	WETC/208564
2330875023	MSA-SW42C-080718			EPA 218.6	WETC/208564
2330875024	MSA-SW42D-080718			EPA 218.6	WETC/208564
2330875025	MSA-SW43A-080718			EPA 218.6	WETC/208564
2330875026	MSA-SW43B-080718			EPA 218.6	WETC/208564
2330875027	MSA-SW43C-080718			EPA 218.6	WETC/208564
2330875028	MSA-SW43D-080718			EPA 218.6	WETC/208564
2330875029	MSA-SW44A-080718			EPA 218.6	WETC/208564
2330875030	MSA-SW44B-080718			EPA 218.6	WETC/208564
2330875031	MSA-SW44C-080718			EPA 218.6	WETC/208564
2330875032	MSA-SW44D-080718			EPA 218.6	WETC/208564

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2330875 TLG028|MSA Surface Water Sampl

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2330875033	MSA-SW45A-080718			EPA 218.6	WETC/208564
2330875034	MSA-SW45B-080718			EPA 218.6	WETC/208564
2330875035	MSA-SW45C-080718			EPA 218.6	WETC/208564
2330875036	MSA-SW45D-080718			EPA 218.6	WETC/208564

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QUALITY CONTROL DATA

Workorder: 2330875 TLG028|MSA Surface Water Sampl

QC Batch: WETC/208563 **Analysis Method:** EPA 218.6

QC Batch Method: EPA 218.6

Associated Lab Samples: 2330875001, 2330875002, 2330875003, 2330875004, 2330875005, 2330875006, 2330875007, 2330875008, 2330875009, 2330875010, 2330875011, 2330875012, 2330875013, 2330875014, 2330875015, 2330875016, 2330875017, 2330875018, 2330875019, 2330875020

METHOD BLANK: 2787941

Parameter	Blank Result	Units	Reporting Limit
Hexavalent Chromium	ND	ug/L	0.25

LABORATORY CONTROL SAMPLE: 2787944

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Hexavalent Chromium	100	ug/L	10	10.0	90 - 110

MATRIX SPIKE: 2787945 DUPLICATE: 2787946 ORIGINAL: 2330875001

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Hexavalent Chromium	0	ug/L	5	5.079	5.142	102	103	90 - 110	1.23	20

METHOD BLANK: 2787948

Parameter	Blank Result	Units	Reporting Limit
Hexavalent Chromium	ND	ug/L	0.25

MATRIX SPIKE: 2787949 DUPLICATE: 2787950 ORIGINAL: 2330875011

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Hexavalent Chromium	0	ug/L	5	5.159	5.125	103	103	90 - 110	.66	20

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QUALITY CONTROL DATA

Workorder: 2330875 TLG028|MSA Surface Water Sampl

QC Batch: WETC/208564 **Analysis Method:** EPA 218.6

QC Batch Method: EPA 218.6

Associated Lab Samples: 2330875021, 2330875022, 2330875023, 2330875024, 2330875025, 2330875026, 2330875027, 2330875028, 2330875029, 2330875030, 2330875031, 2330875032, 2330875033, 2330875034, 2330875035, 2330875036

METHOD BLANK: 2787951

Parameter	Blank Result	Units	Reporting Limit
Hexavalent Chromium	ND	ug/L	0.25

LABORATORY CONTROL SAMPLE: 2787954

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Hexavalent Chromium	101	ug/L	10	10.1	90 - 110

MATRIX SPIKE: 2787955 DUPLICATE: 2787956 ORIGINAL: 2330875021

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Hexavalent Chromium	0	ug/L	5	5.125	5.083	103	102	90 - 110	.82	20

METHOD BLANK: 2787958

Parameter	Blank Result	Units	Reporting Limit
Hexavalent Chromium	ND	ug/L	0.25

MATRIX SPIKE: 2787959 DUPLICATE: 2787960 ORIGINAL: 2330875031

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Hexavalent Chromium	0	ug/L	5	5.101	5.126	102	103	90 - 110	.49	20

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QUALITY CONTROL DATA

Workorder: 2330875 TLG028|MSA Surface Water Sampl

METHOD BLANK: 2787962

Parameter	Blank Result	Units	Reporting Limit
Hexavalent Chromium	ND	ug/L	0.25

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Form 4B

Inorganic Blank Summary

Analysis Method: EPA 218.6
Instrument: IC-4

SDG No.: TLG028[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 6B

SDG No. TLG028

Units: ug/L

[illegible]

(1) The following qualifiers are used:

* : Values outside of acceptable limits

Comments:

Pos	Name	DilutionFac	*SampleType	Comment	*Instrument	*Batch	*Sequence1	*InitialCal	Status
1	Cal Std 1	1	CAL		IC-4		080818	080818	single
2	Cal Std 2	1	CAL		IC-4		080818	080818	single
3	Cal Std 3	1	CAL		IC-4		080818	080818	single
4	Cal Std 4	1	CAL		IC-4		080818	080818	single
5	Cal Std 5	1	CAL		IC-4		080818	080818	single
6	Cal Std 6	1	CAL		IC-4		080818	080818	single
7	2787941	1	MB	LRB	IC-4	208563	080818	080818	single
8	2787942	1	MRL	MRL	IC-4	208563	080818	080818	single
9	2787943	1	CCVL	LFB	IC-4	208563	080818	080818	single
10	2787944	1	LCS	QCS	IC-4	208563	080818	080818	single
11	2330875001	1	SAMPLE		IC-4	208563	080818	080818	single
12	2787945	1	MS		IC-4	208563	080818	080818	single
13	2787946	1	MSD		IC-4	208563	080818	080818	single
14	2330875002	1	SAMPLE		IC-4	208563	080818	080818	single
15	2330875003	1	SAMPLE		IC-4	208563	080818	080818	single
16	2330875004	1	SAMPLE		IC-4	208563	080818	080818	single
17	2330875005	1	SAMPLE		IC-4	208563	080818	080818	single
18	2330875006	1	SAMPLE		IC-4	208563	080818	080818	single
19	2330875007	1	SAMPLE		IC-4	208563	080818	080818	single
20	2330875008	1	SAMPLE		IC-4	208563	080818	080818	single
21	2330875009	1	SAMPLE		IC-4	208563	080818	080818	single
22	2330875010	1	SAMPLE		IC-4	208563	080818	080818	single
23	2787947	1	CCVH		IC-4	208563	080818	080818	single
24	2787948	1	MB		IC-4	208563	080818	080818	single
25	2330875011	1	SAMPLE		IC-4	208563	080818	080818	single
26	2787949	1	MS		IC-4	208563	080818	080818	single
27	2787950	1	MSD		IC-4	208563	080818	080818	single
28	2330875012	1	SAMPLE		IC-4	208563	080818	080818	single
29	2330875013	1	SAMPLE		IC-4	208563	080818	080818	single
30	2330875014	1	SAMPLE		IC-4	208563	080818	080818	single
31	2330875015	1	SAMPLE		IC-4	208563	080818	080818	single
32	2330875016	1	SAMPLE		IC-4	208563	080818	080818	single
33	2330875017	1	SAMPLE		IC-4	208563	080818	080818	single
34	2330875018	1	SAMPLE		IC-4	208563	080818	080818	single
35	2330875019	1	SAMPLE		IC-4	208563	080818	080818	single
36	2330875020	1	SAMPLE		IC-4	208563	080818	080818	single
37	2787951	1	MB	LRB	IC-4	208564	080818	080818	single
38	2787952	1	MRL	MRL	IC-4	208564	080818	080818	single
39	2787953	1	CCVL	LFB	IC-4	208564	080818	080818	single
40	2787954	1	LCS	QCS	IC-4	208564	080818	080818	single
41	2330875021	1	SAMPLE		IC-4	208564	080818	080818	single
42	2787955	1	MS		IC-4	208564	080818	080818	single

43	2787956	1	MSD		IC-4	208564	080818	080818	single
44	2330875022	1	SAMPLE		IC-4	208564	080818	080818	single
45	2330875023	1	SAMPLE		IC-4	208564	080818	080818	single
46	2330875024	1	SAMPLE		IC-4	208564	080818	080818	single
47	2330875025	1	SAMPLE		IC-4	208564	080818	080818	single
48	2330875026	1	SAMPLE		IC-4	208564	080818	080818	single
49	2330875027	1	SAMPLE		IC-4	208564	080818	080818	single
50	2330875028	1	SAMPLE		IC-4	208564	080818	080818	single
1	2330875029	1	SAMPLE		IC-4	208564	080818	080818	single
2	2330875030	1	SAMPLE		IC-4	208564	080818	080818	single
3	2787957	1	CCVH		IC-4	208564	080818	080818	single
4	2787958	1	MB		IC-4	208564	080818	080818	single
5	2330875031	1	SAMPLE		IC-4	208564	080818	080818	single
6	2787959	1	MS		IC-4	208564	080818	080818	single
7	2787960	1	MSD		IC-4	208564	080818	080818	single
8	2330875032	1	SAMPLE		IC-4	208564	080818	080818	single
9	2330875033	1	SAMPLE		IC-4	208564	080818	080818	single
10	2330875034	1	SAMPLE		IC-4	208564	080818	080818	single
11	2330875035	1	SAMPLE		IC-4	208564	080818	080818	single
12	2330875036	1	SAMPLE		IC-4	208564	080818	080818	single
13	2787961	1	CCVL		IC-4	208564	080818	080818	single
14	2787962	1	MB		IC-4	208564	080818	080818	single
15	SHUTDOWN		MISC		IC-4	208564	080818	080818	single

Cr+6 218.6 pH Filtration Prep

[illegible]Tech: MBW

Batch: 208563

Cr+6 Buffer: N/A

Reviewed date: 6/9/16

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: 8.08.2018 00:40
Tech: MBW

Queue:	WETC
Batch:	208563

Reagent:	
Cr+6 Buffer:	N/A

Reviewed by: _____
Reviewed date: _____

Comments:

An "X" in the Final pH column indicates that the sample pH is within this range.

Ammonium Hydroxide - 161014002

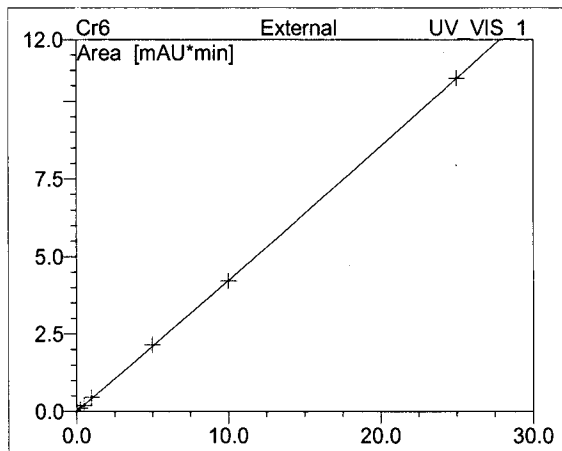
ANION SUMMARY REPORT

No.	Name	Time	*Analyst	InjectionFac	*Batch	*Instrument	Amount Cr6 UV_VIS_1
7	2787941	08/08/18 02:16	MBW	1	208563	IC-4	n.a.
8	2787942	08/08/18 02:25	MBW	1	208563	IC-4	0.236
9	2787943	08/08/18 02:34	MBW	1	208563	IC-4	5.127
10	2787944	08/08/18 02:44	MBW	1	208563	IC-4	10.027
11	2330875001	08/08/18 02:53	MBW	1	208563	IC-4	n.a.
12	2787945	08/08/18 03:02	MBW	1	208563	IC-4	5.079
13	2787946	08/08/18 03:11	MBW	1	208563	IC-4	5.142
14	2330875002	08/08/18 03:20	MBW	1	208563	IC-4	n.a.
15	2330875003	08/08/18 03:29	MBW	1	208563	IC-4	n.a.
16	2330875004	08/08/18 03:38	MBW	1	208563	IC-4	n.a.
17	2330875005	08/08/18 03:47	MBW	1	208563	IC-4	n.a.
18	2330875006	08/08/18 03:56	MBW	1	208563	IC-4	n.a.
19	2330875007	08/08/18 04:05	MBW	1	208563	IC-4	n.a.
20	2330875008	08/08/18 04:15	MBW	1	208563	IC-4	n.a.
21	2330875009	08/08/18 04:24	MBW	1	208563	IC-4	n.a.
22	2330875010	08/08/18 04:33	MBW	1	208563	IC-4	n.a.
23	2787947	08/08/18 04:42	MBW	1	208563	IC-4	20.054
24	2787948	08/08/18 04:51	MBW	1	208563	IC-4	n.a.
25	2330875011	08/08/18 05:00	MBW	1	208563	IC-4	n.a.
26	2787949	08/08/18 05:09	MBW	1	208563	IC-4	5.159
27	2787950	08/08/18 05:18	MBW	1	208563	IC-4	5.125
28	2330875012	08/08/18 05:27	MBW	1	208563	IC-4	n.a.
29	2330875013	08/08/18 05:37	MBW	1	208563	IC-4	n.a.
30	2330875014	08/08/18 05:46	MBW	1	208563	IC-4	n.a.
31	2330875015	08/08/18 05:55	MBW	1	208563	IC-4	n.a.
32	2330875016	08/08/18 06:04	MBW	1	208563	IC-4	n.a.
33	2330875017	08/08/18 06:13	MBW	1	208563	IC-4	n.a.
34	2330875018	08/08/18 06:22	MBW	1	208563	IC-4	n.a.
35	2330875019	08/08/18 06:31	MBW	1	208563	IC-4	n.a.
36	2330875020	08/08/18 06:40	MBW	1	208563	IC-4	n.a.
37	2787951	08/08/18 06:49	MBW	1	208564	IC-4	n.a.
38	2787952	08/08/18 06:58	MBW	1	208564	IC-4	0.220
39	2787953	08/08/18 07:08	MBW	1	208564	IC-4	5.076
40	2787954	08/08/18 07:17	MBW	1	208564	IC-4	10.129
41	2330875021	08/08/18 07:26	MBW	1	208564	IC-4	n.a.
42	2787955	08/08/18 07:35	MBW	1	208564	IC-4	5.125
43	2787956	08/08/18 07:44	MBW	1	208564	IC-4	5.083
44	2330875022	08/08/18 07:53	MBW	1	208564	IC-4	n.a.
45	2330875023	08/08/18 08:02	MBW	1	208564	IC-4	n.a.
46	2330875024	08/08/18 08:11	MBW	1	208564	IC-4	n.a.
47	2330875025	08/08/18 08:20	MBW	1	208564	IC-4	n.a.
48	2330875026	08/08/18 08:29	MBW	1	208564	IC-4	n.a.

49	2330875027	08/08/18 08:39	MBW	1	208564	IC-4	n.a.
50	2330875028	08/08/18 08:48	MBW	1	208564	IC-4	n.a.
51	2330875029	08/08/18 08:57	MBW	1	208564	IC-4	n.a.
52	2330875030	08/08/18 09:06	MBW	1	208564	IC-4	n.a.
53	2787957	08/08/18 09:15	MBW	1	208564	IC-4	20.112
54	2787958	08/08/18 09:24	MBW	1	208564	IC-4	n.a.
55	2330875031	08/08/18 09:33	MBW	1	208564	IC-4	n.a.
56	2787959	08/08/18 09:42	MBW	1	208564	IC-4	5.101
57	2787960	08/08/18 09:51	MBW	1	208564	IC-4	5.126
58	2330875032	08/08/18 10:00	MBW	1	208564	IC-4	n.a.
59	2330875033	08/08/18 10:09	MBW	1	208564	IC-4	n.a.
60	2330875034	08/08/18 10:18	MBW	1	208564	IC-4	n.a.
61	2330875035	08/08/18 10:27	MBW	1	208564	IC-4	n.a.
62	2330875036	08/08/18 10:36	MBW	1	208564	IC-4	n.a.
63	2787961	08/08/18 10:46	MBW	1	208564	IC-4	5.107
64	2787962	08/08/18 10:55	MBW	1	208564	IC-4	n.a.
65	SHUTDOWN	08/08/18 11:04	MBW		208564	IC-4	n.a.

Calibration Batch Report

Sequence:	4-080818	Instrument:	IC-4
Instrument Method:	cr+6	InitialCal:	080818
Ini. Date/Time:	08/08/18 02:34	Method:	218 6 080818



No.	Ret. Time min	Peak Name	Cal. Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff. Det. %
1	5.06	Cr6	0QOff	6	0.010	0.418	0.000	99.9963
AVERAGE:					0.0099	0.4184	0.0004	99.9963

APPENDIX C—CHEMICAL-RESULTS DATA TABLE

LOCATION	EL-SW01A	EL-SW01B	EL-SW01C	EL-SW01D	MSA-SW37A	MSA-SW37B	MSA-SW37C
SAMPLE ID	EL-SW01A-080718	EL-SW01B-080718	EL-SW01C-080718	EL-SW01D-080718	MSA-SW37A-080718	MSA-SW37B-080718	MSA-SW37C-080718
SAMPLE DATE	20180807	20180807	20180807	20180807	20180807	20180807	20180807
VOLATILES (UG/L)							
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1,1-TRICHLOROETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1-DICHLOROETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2,3-TRIMETHYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 UJ	0.14 UJ	0.14 UJ
1,2,4-TRICHLOROBENZENE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 UJ	0.26 UJ	0.26 UJ
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 UJ	1.2 UJ	1.2 UJ	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2-HEXANONE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
4-ISOPROPYLTOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
ACETONE	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 UJ	0.42 UJ	0.42 UJ
CARBON DISULFIDE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 UJ	0.28 UJ	0.28 UJ
CARBON TETRACHLORIDE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
CHLORODIBROMOMETHANE	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 UJ	0.83 UJ	0.83 UJ
CHLOROFORM	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROMETHANE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.17 J	0.19 J
CIS-1,3-DICHLOROPROPENE	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

LOCATION	EL-SW01A	EL-SW01B	EL-SW01C	EL-SW01D	MSA-SW37A	MSA-SW37B	MSA-SW37C
SAMPLE ID	EL-SW01A-080718	EL-SW01B-080718	EL-SW01C-080718	EL-SW01D-080718	MSA-SW37A-080718	MSA-SW37B-080718	MSA-SW37C-080718
SAMPLE DATE	20180807	20180807	20180807	20180807	20180807	20180807	20180807
ETHYL TERT-BUTYL ETHER	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 UJ	0.83 UJ	0.83 UJ
ISOPROPYLBENZENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
M+P-XYLENES	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
METHYLENE CHLORIDE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 UJ	0.32 UJ	0.32 UJ
N-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.2 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
VINYL ACETATE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
DISSOLVED METALS (UG/L)							
ANTIMONY	NA	NA	NA	NA	0.71 J	1.3 J	0.57 U
ARSENIC	NA	NA	NA	NA	1.9 J	2.1 J	1.5 J
BARIUM	NA	NA	NA	NA	12	11	11
BERYLLIUM	NA	NA	NA	NA	0.31 U	0.36 J	0.31 U
CADMIUM	NA	NA	NA	NA	0.21 J	0.21 U	0.21 U
CHROMIUM	NA	NA	NA	NA	2.5	2.7	2.5
COBALT	NA	NA	NA	NA	0.28 J	0.22 J	0.19 U
COPPER	NA	NA	NA	NA	6.5	14	6.4
LEAD	NA	NA	NA	NA	0.65 J	0.61 J	0.45 U
MERCURY	NA	NA	NA	NA	0.13 U	0.13 U	0.13 U
MOLYBDENUM	NA	NA	NA	NA	1.9 J	1.9 J	1.8 J
NICKEL	NA	NA	NA	NA	1.7 J	1.7 J	1.5 J
SELENIUM	NA	NA	NA	NA	1.1 J	1.4 J	1.1 J
SILVER	NA	NA	NA	NA	0.053 U	0.053 U	0.053 U
THALLIUM	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U
TUNGSTEN	NA	NA	NA	NA	1.8 U	1.8 U	1.8 U
VANADIUM	NA	NA	NA	NA	2.1 J	1.9 J	1.5 J
ZINC	NA	NA	NA	NA	15 U	15 U	15 U
MISCELLANEOUS PARAMETERS (UG/L)							
HEXVALENT CHROMIUM	NA	NA	NA	NA	0.047 U	0.047 U	0.047 U
MISCELLANEOUS PARAMETERS (MG/L)							
CALCIUM HARDNESS AS CaCO3	NA	NA	NA	NA	44	43	44
HARDNESS AS CaCO3	NA	NA	NA	NA	180	180	180
MAGNESIUM HARDNESS AS CaCO3	NA	NA	NA	NA	130	140	130

LOCATION	MSA-SW37D	MSA-SW38A	MSA-SW38B	MSA-SW38C	MSA-SW38D	MSA-SW39A	MSA-SW39B
SAMPLE ID	MSA-SW37D-080718	MSA-SW38A-080718	MSA-SW38B-080718	MSA-SW38C-080718	MSA-SW38D-080718	MSA-SW39A-080718	MSA-SW39B-080718
SAMPLE DATE	20180807	20180807	20180807	20180807	20180807	20180807	20180807
VOLATILES (UG/L)							
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1,1-TRICHLOROETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1-DICHLOROETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2,3-TRIMETHYLBENZENE	0.14 UJ	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 UJ	0.35 J	0.36 J	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.17 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.65 J	0.4 J	0.16 U	0.16 U	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2-HEXANONE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
4-ISOPROPYLTOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
ACETONE	5.4 U	7.4	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	0.42 UJ	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	0.28 UJ	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
CARBON TETRACHLORIDE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
CHLORODIBROMOMETHANE	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.83 UJ	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROMETHANE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.23 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
CIS-1,3-DICHLOROPROPENE	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

LOCATION	MSA-SW37D	MSA-SW38A	MSA-SW38B	MSA-SW38C	MSA-SW38D	MSA-SW39A	MSA-SW39B
SAMPLE ID	MSA-SW37D-080718	MSA-SW38A-080718	MSA-SW38B-080718	MSA-SW38C-080718	MSA-SW38D-080718	MSA-SW39A-080718	MSA-SW39B-080718
SAMPLE DATE	20180807	20180807	20180807	20180807	20180807	20180807	20180807
ETHYL TERT-BUTYL ETHER	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 UJ	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
M+P-XYLENES	0.08 U	0.11 J	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
METHYLENE CHLORIDE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	0.32 UJ	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
N-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
VINYL ACETATE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.6	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
DISSOLVED METALS (UG/L)							
ANTIMONY	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
ARSENIC	1.5 J	2 J	1.6 J	2.1 J	1.6 J	1.8 J	1.6 J
BARIUM	11	11	11	12	12	12	11
BERYLLIUM	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
CADMIUM	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
CHROMIUM	2.5	2.4	2.3	2.5	2.5	2.5	2.4
COBALT	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
COPPER	6.6	6	5.9	6.8	6.7	3.5	9.8
LEAD	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
MERCURY	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
MOLYBDENUM	1.8 J	1.8 J	1.7 J	1.8 J	1.8 J	1.6 J	1.9 J
NICKEL	1.6 J	1.5 U	1.5 U	1.5 J	1.7 J	1.5 U	1.5 J
SELENIUM	0.89 U	0.89 U	0.89 U	1.1 J	0.98 J	1.1 J	1 J
SILVER	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
THALLIUM	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
TUNGSTEN	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
VANADIUM	1.6 J	1.7 J	1.6 J	1.4 J	1.8 J	1.5 J	1.5 J
ZINC	15 U	15 U	15 U	15 U	15 U	15 U	15 U
MISCELLANEOUS PARAMETERS (UG/L)							
HEXAVALENT CHROMIUM	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
MISCELLANEOUS PARAMETERS (MG/L)							
CALCIUM HARDNESS AS CaCO3	44	45	42	47	47	50	44
HARDNESS AS CaCO3	180	190	180	200	200	200	200
MAGNESIUM HARDNESS AS CaCO3	140	140	140	150	150	150	160

LOCATION	MSA-SW39C	MSA-SW39D	MSA-SW40A	MSA-SW40B	MSA-SW40C	MSA-SW40D	MSA-SW41A
SAMPLE ID	MSA-SW39C-080718	MSA-SW39D-080718	MSA-SW40A-080718	MSA-SW40B-080718	MSA-SW40C-080718	MSA-SW40D-080718	MSA-SW41A-080718
SAMPLE DATE	20180807	20180807	20180807	20180807	20180807	20180807	20180807
VOLATILES (UG/L)							
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1,1-TRICHLOROETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1-DICHLOROETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2,3-TRIMETHYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2-HEXANONE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
4-ISOPROPYLTOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
ACETONE	6	5.8	5.4 U	5.4 U	5.4 U	5.4 U	7.9
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
CARBON TETRACHLORIDE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
CHLORODIBROMOMETHANE	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROMETHANE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.16 U	0.19 J	0.16 U	0.16 U	0.16 U	0.26 J
CIS-1,3-DICHLOROPROPENE	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

LOCATION	MSA-SW39C	MSA-SW39D	MSA-SW40A	MSA-SW40B	MSA-SW40C	MSA-SW40D	MSA-SW41A
SAMPLE ID	MSA-SW39C-080718	MSA-SW39D-080718	MSA-SW40A-080718	MSA-SW40B-080718	MSA-SW40C-080718	MSA-SW40D-080718	MSA-SW41A-080718
SAMPLE DATE	20180807	20180807	20180807	20180807	20180807	20180807	20180807
ETHYL TERT-BUTYL ETHER	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
M+P-XYLENES	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
METHYLENE CHLORIDE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
N-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
VINYL ACETATE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
DISSOLVED METALS (UG/L)							
ANTIMONY	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
ARSENIC	1.2 J	1.4 J	2 J	1.5 J	1.7 J	1.9 J	1.7 J
BARIUM	11	11	12	12	11	11	11
BERYLLIUM	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
CADMIUM	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
CHROMIUM	2.4	2.4	2.4	2.4	2.2	2.5	2.3
COBALT	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
COPPER	4.3	4	6.4	6.5	6.1	7.7	6
LEAD	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
MERCURY	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
MOLYBDENUM	1.8 J	1.8 J	1.8 J	1.8 J	1.7 J	1.9 J	1.8 J
NICKEL	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.8 J	1.5 U
SELENIUM	1.1 J	1.1 J	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
SILVER	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
THALLIUM	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
TUNGSTEN	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
VANADIUM	1.5 J	1.5 J	1.7 J	1.8 J	1.6 J	1.7 J	1.8 J
ZINC	15 U	15 U	15 U	15 U	15 U	15 U	15 U
MISCELLANEOUS PARAMETERS (UG/L)							
HEXAVALENT CHROMIUM	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
MISCELLANEOUS PARAMETERS (MG/L)							
CALCIUM HARDNESS AS CaCO3	42	41	45	44	42	43	44
HARDNESS AS CaCO3	200	200	190	190	180	180	190
MAGNESIUM HARDNESS AS CaCO3	160	160	150	150	140	140	150

LOCATION	MSA-SW41B	MSA-SW41C	MSA-SW41D	MSA-SW42A	MSA-SW42B	MSA-SW42C	MSA-SW42D
SAMPLE ID	MSA-SW41B-080718	MSA-SW41C-080718	MSA-SW41D-080718	MSA-SW42A-080718	MSA-SW42B-080718	MSA-SW42C-080718	MSA-SW42D-080718
SAMPLE DATE	20180807	20180807	20180807	20180807	20180807	20180807	20180807
VOLATILES (UG/L)							
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1,1-TRICHLOROETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1-DICHLOROETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2,3-TRIMETHYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2-HEXANONE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
4-ISOPROPYLTOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
ACETONE	5.4 U	5.9	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
CARBON TETRACHLORIDE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
CHLORODIBROMOMETHANE	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROMETHANE	0.42 J	0.2 U	0.2 U	0.2 U	0.2 U	0.21 J	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 J	0.16 U	0.16 U	0.27 J	0.18 J	0.16 U	0.16 U
CIS-1,3-DICHLOROPROPENE	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

LOCATION	MSA-SW41B	MSA-SW41C	MSA-SW41D	MSA-SW42A	MSA-SW42B	MSA-SW42C	MSA-SW42D
SAMPLE ID	MSA-SW41B-080718	MSA-SW41C-080718	MSA-SW41D-080718	MSA-SW42A-080718	MSA-SW42B-080718	MSA-SW42C-080718	MSA-SW42D-080718
SAMPLE DATE	20180807	20180807	20180807	20180807	20180807	20180807	20180807
ETHYL TERT-BUTYL ETHER	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
M+P-XYLENES	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
METHYLENE CHLORIDE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
N-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
VINYL ACETATE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U	0.2 U	0.3 J	0.2 U	0.2 U	0.2 U
DISSOLVED METALS (UG/L)							
ANTIMONY	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
ARSENIC	1.6 J	2 J	2 J	2.3 J	2.2 J	2.3 J	2.2 J
BARIUM	11	12	12	11	11	12	12
BERYLLIUM	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
CADMIUM	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
CHROMIUM	2.3	2.2	2.3	2.6 J+	2.5 J+	2.6 J+	2.7 J+
COBALT	0.19 U	0.19 U	0.19 U	0.19 J	0.19 U	0.19 U	0.19 U
COPPER	9.4	6.4	6.6	6	6.5	6.4	6.4
LEAD	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
MERCURY	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
MOLYBDENUM	1.7 J	1.9 J	1.9 J	1.9 J	1.8 J	1.8 J	1.9 J
NICKEL	1.9 J	1.5 U	1.5 U	1.5 U	1.6 J	1.5 U	1.5 U
SELENIUM	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
SILVER	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
THALLIUM	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
TUNGSTEN	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
VANADIUM	1.8 J	1.6 J	1.6 J	2.2 U	1.6 U	1.7 U	2 U
ZINC	15 U	15 U	15 U	15 U	15 U	15 U	15 U
MISCELLANEOUS PARAMETERS (UG/L)							
HEXAVALENT CHROMIUM	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
MISCELLANEOUS PARAMETERS (MG/L)							
CALCIUM HARDNESS AS CaCO3	42	45	45	46	46	46	45
HARDNESS AS CaCO3	180	190	190	190	190	190	180
MAGNESIUM HARDNESS AS CaCO3	140	150	150	140	140	140	140

LOCATION	MSA-SW43A	MSA-SW43B	MSA-SW43C	MSA-SW43D
SAMPLE ID	MSA-SW43A-080718	MSA-SW43B-080718	MSA-SW43C-080718	MSA-SW43D-080718
SAMPLE DATE	20180807	20180807	20180807	20180807
VOLATILES (UG/L)				
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	0.14 U	0.14 U
1,1,1-TRICHLOROETHANE	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 U	0.41 U	0.41 U	0.41 U
1,1-DICHLOROETHANE	0.17 U	0.17 U	0.17 U	0.17 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	0.24 U	0.24 U
1,2,3-TRIMETHYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.16 U	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	0.15 U	0.15 U
2-HEXANONE	0.54 U	0.54 U	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U	0.09 U	0.09 U
4-ISOPROPYLTOLUENE	0.13 U	0.13 U	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 U	0.42 U	0.42 U	0.42 U
ACETONE	5.4 U	5.4 U	5.4 U	5.4 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	0.28 U	0.28 U	0.28 U	0.28 U
CARBON TETRACHLORIDE	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U
CHLORODIBROMOMETHANE	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROMETHANE	0.29 J	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.17 J	0.16 U	0.16 U
CIS-1,3-DICHLOROPROPENE	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U

LOCATION	MSA-SW43A	MSA-SW43B	MSA-SW43C	MSA-SW43D
SAMPLE ID	MSA-SW43A-080718	MSA-SW43B-080718	MSA-SW43C-080718	MSA-SW43D-080718
SAMPLE DATE	20180807	20180807	20180807	20180807
ETHYL TERT-BUTYL ETHER	0.15 U	0.15 U	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U	0.09 U	0.09 U
M+P-XYLENES	0.08 U	0.08 U	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U	0.07 U	0.07 U
METHYLENE CHLORIDE	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	0.32 U	0.32 U	0.32 U	0.32 U
N-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 U	1.7 U	1.7 U	1.7 U
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 U	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	0.15 U	0.15 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	0.1 U	0.1 U	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	0.45 U	0.45 U
VINYL ACETATE	0.19 U	0.19 U	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U	0.2 U	0.2 U
DISSOLVED METALS (UG/L)				
ANTIMONY	0.57 U	0.57 U	0.57 U	0.57 U
ARSENIC	2.3 J	2.2 J	2.3 J	2.4 J
BARIUM	12	12	12	12
BERYLLIUM	0.31 U	0.31 U	0.31 U	0.31 U
CADMIUM	0.21 U	0.21 U	0.21 U	0.21 U
CHROMIUM	2.6 J+	2.7 J+	2.8 J+	2.8 J+
COBALT	0.19 U	0.19 U	0.19 U	0.19 U
COPPER	6.4	6.6	6.9	7
LEAD	0.45 U	0.45 U	0.45 U	0.45 U
MERCURY	0.13 U	0.13 U	0.13 U	0.13 U
MOLYBDENUM	1.8 J	1.8 J	1.9 J	2 J
NICKEL	1.5 U	1.5 J	1.5 J	1.6 J
SELENIUM	0.89 U	0.89 U	0.89 U	0.89 U
SILVER	0.053 U	0.053 U	0.053 U	0.053 U
THALLIUM	0.2 U	0.2 U	0.2 U	0.2 U
TUNGSTEN	1.8 U	1.8 U	1.8 U	1.8 U
VANADIUM	1.6 U	2.1 U	2.2 U	2 U
ZINC	15 U	15 U	15 U	15 U
MISCELLANEOUS PARAMETERS (UG/L)				
HEXAVALENT CHROMIUM	0.047 U	0.047 U	0.047 U	0.047 U
MISCELLANEOUS PARAMETERS (MG/L)				
CALCIUM HARDNESS AS CaCO3	45	46	47	49
HARDNESS AS CaCO3	190	200	200	210
MAGNESIUM HARDNESS AS CaCO3	140	150	150	160

LOCATION	MSA-SW44A	MSA-SW44B	MSA-SW44C	MSA-SW44D	MSA-SW45A	MSA-SW45B	MSA-SW45C
SAMPLE ID	MSA-SW44A-080718	MSA-SW44B-080718	MSA-SW44C-080718	MSA-SW44D-080718	MSA-SW45A-080718	MSA-SW45B-080718	MSA-SW45C-080718
SAMPLE DATE	20180807	20180807	20180807	20180807	20180807	20180807	20180807
VOLATILES (UG/L)							
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1,1-TRICHLOROETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1-DICHLOROETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2,3-TRIMETHYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2-HEXANONE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
4-ISOPROPYLTOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
ACETONE	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	6
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
CARBON TETRACHLORIDE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
CHLORODIBROMOMETHANE	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROMETHANE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
CIS-1,3-DICHLOROPROPENE	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

LOCATION	MSA-SW44A	MSA-SW44B	MSA-SW44C	MSA-SW44D	MSA-SW45A	MSA-SW45B	MSA-SW45C
SAMPLE ID	MSA-SW44A-080718	MSA-SW44B-080718	MSA-SW44C-080718	MSA-SW44D-080718	MSA-SW45A-080718	MSA-SW45B-080718	MSA-SW45C-080718
SAMPLE DATE	20180807	20180807	20180807	20180807	20180807	20180807	20180807
ETHYL TERT-BUTYL ETHER	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
M+P-XYLENES	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
METHYLENE CHLORIDE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
N-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
VINYL ACETATE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
DISSOLVED METALS (UG/L)							
ANTIMONY	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
ARSENIC	2.3 J	2.3 J	2.2 J	2.4 J	2.2 J	2.2 J	2.2 J
BARIUM	12	12	11	12	13	12	12
BERYLLIUM	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
CADMIUM	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
CHROMIUM	2.9 J+	2.8 J+	2.7 J+	2.9 J+	2.9 J+	2.8 J+	2.7 J+
COBALT	0.32 J	0.19 U	0.19 U	0.19 U	0.32 J	0.19 U	0.19 U
COPPER	6.9	6.6	6.5	7	3.7	15	5.7
LEAD	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.62 J	0.45 U
MERCURY	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
MOLYBDENUM	1.9 J	1.8 J	1.8 J	1.9 J	1.8 J	1.9 J	1.9 J
NICKEL	1.9 J	1.5 U	1.5 U	1.5 J	1.7 J	1.6 J	1.5 U
SELENIUM	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
SILVER	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
THALLIUM	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
TUNGSTEN	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
VANADIUM	1.9 U	1.8 U	1.5 U	1.8 U	1.7 U	1.5 U	1.8 U
ZINC	15 U	15 U	15 U	15 U	15 U	15 U	15 U
MISCELLANEOUS PARAMETERS (UG/L)							
HEXAVALENT CHROMIUM	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
MISCELLANEOUS PARAMETERS (MG/L)							
CALCIUM HARDNESS AS CaCO3	46	45	45	47	49	46	46
HARDNESS AS CaCO3	200	190	190	200	210	210	200
MAGNESIUM HARDNESS AS CaCO3	150	150	150	150	170	160	160

LOCATION	MSA-SW45D	MSA-SW46A	MSA-SW47A	MSA-SW48A	MSA-SW49A	QC
SAMPLE ID	MSA-SW45D-080718	MSA-SW46A-080718	MSA-SW47A-080718	MSA-SW48A-080718	MSA-SW49A-080718	TB-080718
SAMPLE DATE	20180807	20180807	20180807	20180807	20180807	20180807
VOLATILES (UG/L)						
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1,1-TRICHLOROETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1-DICHLOROETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2,3-TRIMETHYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2-HEXANONE	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
4-ISOPROPYLTOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
ACETONE	5.5	5.4 U	5.4 U	5.4 U	7.5	5.4 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.17 J	0.13 U
BROMOBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
CARBON TETRACHLORIDE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
CHLORODIBROMOMETHANE	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
CHLOROETHANE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
CHLOROFORM	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROMETHANE	0.2 U	0.45 J	0.26 J	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.17 J	0.17 J	0.17 J	0.37 J	0.16 U
CIS-1,3-DICHLOROPROPENE	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
DIISOPROPYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

LOCATION	MSA-SW45D	MSA-SW46A	MSA-SW47A	MSA-SW48A	MSA-SW49A	QC
SAMPLE ID	MSA-SW45D-080718	MSA-SW46A-080718	MSA-SW47A-080718	MSA-SW48A-080718	MSA-SW49A-080718	TB-080718
SAMPLE DATE	20180807	20180807	20180807	20180807	20180807	20180807
ETHYL TERT-BUTYL ETHER	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
M+P-XYLENES	0.08 U	0.08 U	0.08 U	0.08 U	0.19 J	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
METHYLENE CHLORIDE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
N-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 U	0.14 U	0.14 U	0.32 J	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	0.15 U	0.15 U	0.19 J	0.15 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	0.1 U	0.1 U	0.1 U	0.1 U	0.26 J	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
VINYL ACETATE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
DISSOLVED METALS (UG/L)						
ANTIMONY	0.57 U	NA	NA	NA	NA	NA
ARSENIC	2.3 J	NA	NA	NA	NA	NA
BARIUM	12	NA	NA	NA	NA	NA
BERYLLIUM	0.31 U	NA	NA	NA	NA	NA
CADMIUM	0.21 U	NA	NA	NA	NA	NA
CHROMIUM	2.8 J+	NA	NA	NA	NA	NA
COBALT	0.19 U	NA	NA	NA	NA	NA
COPPER	6	NA	NA	NA	NA	NA
LEAD	0.45 U	NA	NA	NA	NA	NA
MERCURY	0.13 U	NA	NA	NA	NA	NA
MOLYBDENUM	2 J	NA	NA	NA	NA	NA
NICKEL	1.5 J	NA	NA	NA	NA	NA
SELENIUM	0.89 U	NA	NA	NA	NA	NA
SILVER	0.053 U	NA	NA	NA	NA	NA
THALLIUM	0.2 U	NA	NA	NA	NA	NA
TUNGSTEN	1.8 U	NA	NA	NA	NA	NA
VANADIUM	1.8 U	NA	NA	NA	NA	NA
ZINC	15 U	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (UG/L)						
HEXAVALENT CHROMIUM	0.047 U	NA	NA	NA	NA	NA
MISCELLANEOUS PARAMETERS (MG/L)						
CALCIUM HARDNESS AS CaCO3	47	NA	NA	NA	NA	NA
HARDNESS AS CaCO3	210	NA	NA	NA	NA	NA
MAGNESIUM HARDNESS AS CaCO3	160	NA	NA	NA	NA	NA