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August 3, 2022

**VIA EMAIL AND PRIVATE CARRIER**

Mr. Brian Dietz  
Program Administrator Land Restoration Program  
Land and Material Administration Maryland Department of the Environment  
1800 Washington Road, Suite 625  
Baltimore, Maryland 21230

Transmittal of Technical Memorandum: March 2022 Surface Water Sampling Results for Frog Mortar Creek  
Martin State Airport, 701 Wilson Point Road  
Middle River, Maryland

Dear Mr. Dietz,

For your review, please find enclosed two hard copies of the above-referenced document. This prepared technical memorandum presenting sampling results for surface water samples collected in Frog Mortar Creek adjacent to the Dump Road Area at Martin State Airport in Middle River, Maryland.

If you have any questions or require any additional information please contact me by phone at 301-964-2482, or via e-mail at [anthony.c.apanavage@lmco.com](mailto:anthony.c.apanavage@lmco.com).

Sincerely,

A handwritten signature in blue ink, appearing to read "Anthony Apanavage".

Anthony Apanavage  
Project Lead  
Environmental Remediation Principal  
Lockheed Martin Corporation

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**TECHNICAL MEMORANDUM: MARCH 2022  
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.

August 2022

Approved by:

Revision:                    0



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Michael Martin, P.G.  
Regional Manager



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Josh Mullis  
Project Manager

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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                                  |
| EESH                | energy, environment, safety, and health         |
| GIS                 | geographic information system                   |
| IDW                 | investigation derived waste                     |
| Lockheed Martin     | Lockheed Martin Corporation                     |
| LRP                 | Land Restoration Program                        |
| MAA                 | Maryland Aviation Administration                |
| MDE                 | Maryland Department of the Environment          |
| MDANG               | Maryland Air National Guard                     |
| 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.                                |
| TIC                 | tentatively identified compound                 |

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

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# SECTION 1 INTRODUCTION

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech, Inc., (Tetra Tech) has prepared this technical memorandum presenting sampling results for surface water samples collected in Frog Mortar Creek adjacent to the Dump Road Area (DRA) at Martin State Airport (MSA) in Middle River, Maryland (see Figure 1-1). Surface water was sampled according to the *2022 Frog Mortar Creek Surface Water Sampling Work Plan* (Tetra Tech, 2021a). This technical memorandum presents the analytical results for surface water samples collected from Frog Mortar Creek on March 11, 2022.

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

- characterize surface water quality to determine the concentrations and spatial distributions of volatile organic compounds in Frog Mortar Creek
- evaluate the interaction between shallow groundwater and Frog Mortar Creek for numerical modeling
- evaluate the effectiveness of the groundwater treatment system now operating to contain contaminated groundwater emanating from the Dump Road Area
- provide information that can be used to assess ecological risks to aquatic and benthic organisms and human health risks for recreational users of Frog Mortar Creek
- update modeling for shallow-groundwater flow patterns and groundwater discharge to Frog Mortar Creek

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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.



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## **SECTION 2**

# **SITE BACKGROUND AND PREVIOUS INVESTIGATIONS**

Martin State Airport (MSA), located at 701 Wilson Point Road in Middle River, Maryland, is bounded by Frog Mortar Creek to the east and Stansbury Creek to the west (Figure 2-1); both are tidal tributaries of the Chesapeake Bay. The Maryland Aviation Administration (MAA) operates MSA on behalf of the Maryland Department of Transportation. The MSA property (approximately 775 acres) consists of an administration building (the Main Terminal building), aircraft hangars, a 7,000-foot-long runway, and several taxiways. MAA manages more than 130,000 square feet of heated hangar space and 190 smaller aircraft hangars. MSA hosts the Maryland State Police aviation unit, Baltimore County Police aviation and marine units, the Baltimore City Police aviation unit, and the Glenn L. Martin Museum. A portion of MSA is leased to the United States Air Force for use by the Maryland Air National Guard (MDANG). 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 consists mostly of open meadows, mowed grass, and heavily wooded areas (as modified by the construction of the groundwater 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 used by MDANG for military aircraft operations. The airport runway is also used by state-owned and private aircraft.

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

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and underground piping pump groundwater from the surficial aquifer to the aboveground treatment building, creating a “hydraulic barrier” that captures groundwater and prevents 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 a Maryland Department of the Environment (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 DRA soil, pond sediment, and groundwater 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**—although Maryland does not have a groundwater standard for this compound, 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 1997–2021, 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 *2021 Surface Water Sampling Report for Frog Mortar Creek* (Tetra Tech, 2022), and are therefore not repeated herein.

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## SECTION 3 INVESTIGATION APPROACH AND METHODOLOGY

Previous surface-water sampling data for Frog Mortar Creek support the need for ongoing monitoring to assess the extent to which surface water is affected by groundwater emanating from the Dump Road Area (DRA). The March 2022 data 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) benchmarks for screening surface water, and Maryland Department of the Environment (MDE)-approved site-specific screening levels for swimming developed by Lockheed Martin Corporation (Lockheed Martin). The March 2022 sampling is the first of four surface-water sampling rounds planned for 2022, and assessed water quality during the spring season, when recreational use of Frog Mortar Creek is expected to be minimal.

Note that in the discussion below, all sampling locations share the “MSA-“ prefix (e.g., “SW39” refers to transect MSA-SW39). This prefix is not included in the text below to increase readability.

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## 3.1 SURFACE WATER SAMPLING

### 3.1.1 Surface Water Sampling and Chemical Analyses

Twenty-eight surface water samples were collected from Frog Mortar Creek adjacent to the DRA site on March 11, 2022. Sampling locations are shown in Figure 3-1. Four samples were collected along each of six transects spaced approximately 350 feet apart along the western shoreline of the creek; these transects are designated SW37, SW38, SW40, SW41, SW42, and SW43. Four additional western-shore samples (SW46A, SW47A, SW48A, and SW49A) were collected at near-shore locations between transects SW42 and SW40, SW40 and SW38, SW38 and SW41, and SW41 and SW43 (respectively) for a total of 28 surface water samples. These latter 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 March 2022 sampling round.

The northernmost transect (SW39) and the southernmost transect (SW45) in Frog Mortar Creek were also historically sampled until 2020, when they were removed from the sampling program. Sampling of southern transect SW44 and the Edwards Lane transect (located on the eastern shore of Frog Mortar Creek) was discontinued after 2021. These locations were removed from the sampling program, with MDE approval, because cVOCs and other analytes of concern had been nondetect in surface water samples collected from these transects for several years, and because the remaining transects cover the extent of the groundwater contaminant plume emanating from the DRA.

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 located using a handheld global positioning system receiver.

Table 3-1 outlines the sampling and chemical analysis program. Samples from the six western shoreline transects (SW37, SW38, SW40, SW41, SW42, and SW43) and near-shore locations SW46A through SW49A were analyzed for VOCs by USEPA SW846 Method 8260C (including

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Freon 113 [1,1,2-trichloro-1,2,2-trifluoroethane], Freon 22 [chlorodifluoromethane], and tentatively identified compounds).

Historically, western shoreline samples were also analyzed for hexavalent chromium and dissolved metals. In agreement with the MDE Land Restoration Program (LRP), and because hexavalent chromium was not detected during any sampling events in 2018 or 2019, hexavalent chromium and dissolved metals were removed from the sampling program in 2020. 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 on the dock at 3301 Edwards Lane before sampling (0.76 meters [2.5 feet] at 0810 hours) and after sampling (1.10 meters [3.6 feet] at 1045 hours) on March 11, 2022. 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.

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In accordance with the approved work plan (Tetra Tech, 2021a), no duplicate samples were collected. A trip blank (one per cooler containing VOC samples) was submitted for VOC analysis for quality assurance/quality control purposes. One equipment blank sample was also collected (from the discrete-interval sampler) for VOC analysis using laboratory supplied deionized water, per the quality assurance project plan (Tetra Tech, 2021b).

### **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. March 2022 log sheets for surface water samples are in Appendix A. Chain of custody forms, the data-validation report, and the full laboratory report are in Appendix B (on compact disc).

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

Surface water samples collected from western shoreline transects 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. For example, the surface water sample collected on March 11, 2022 from MSA-SW37A is labeled “MSA-SW37A-031122.” The trip blank is labeled with a “TB” prefix followed by the sample’s six-digit submittal date (e.g., TB-031122). The equipment blank is similarly labeled with a prefix of “MSA-SWEQB” followed by the six-digit sampling date.

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

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

### **3.1.4 Equipment Decontamination**

This project required minimal equipment decontamination. Both dedicated and disposable equipment were 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) consisted of personal protective equipment (PPE) generated during field sampling. PPE IDW was brushed off, placed in trash bags, 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 sample tracking system was used from the beginning to the end of sampling. The field operations leader 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.

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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<sup>®</sup> 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 consisted of a relational database and geographic information system (GIS) to manage environmental information pertaining to MSA housed in the Lockheed Martin environment, safety, and health (ESH) 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



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represent project information. Compiled sampling, chemical, and positional data from this investigation were incorporated into the ESH 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 organic data review (USEPA, 2020) and the specifics of the analytical methods used. Data from this sampling event consist of chemical results for surface water samples. Data-validation reports, full laboratory reports, and chain of custody forms are in Appendix B (on compact disc) as PDF files. A table with all analytical data for March 2022 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). 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 at 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.
- U* Not detected; the analyte is considered not detected at the reported value.
- NJ* The analyte has been “tentatively identified” or is “presumptively” present and the associated numerical value is the estimated concentration in the sample.
- UJ* The analyte was analyzed for, but was not detected; the reported detection limit is approximate and may be inaccurate or imprecise.
- UR* The sample result (nondetect) 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.

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## SECTION 4 RESULTS

### 4.1 SURFACE WATER DATA AND SCREENING CRITERIA

No volatile organic compounds (VOCs) were detected in the surface water samples collected from Frog Mortar Creek in March 2022, although one tentatively identified compound (TIC) was identified at one sampled location (refer to Section 4.2.4). When VOCs were historically detected, validated chemical data from Frog Mortar Creek surface water samples were used to generate a statistical summary table and a table summarizing positive detections of chemical analytes. However, since no VOCs were detected in March 2022, only a comparison table (Table 4-1) showing trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC) results from last year (March 2021), the previous sampling round (December 2021), and the current (March 2022) sampling round, was generated for this reporting period.

Samples collected from the six transects identified on Figure 3-1, including single-sample transect locations SW46A–SW49A, were analyzed for VOCs (including fuel-related compounds such as benzene, toluene, ethylbenzene, and xylenes [BTEX] and TICs). As stated above, no VOCs were detected during the March 2022 sampling round. When historically detected, surface-water sampling results were compared 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 freshwater acute and chronic aquatic-organism exposures, and NRWQC for human health aquatic-organism-consumption (USEPA, 2019)
- 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 TCE, *cis*-1,2-DCE, and VC

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Site-specific screening levels for swimming for TCE, *cis*-1,2-DCE, and VC were developed by Lockheed Martin Corporation (Lockheed Martin) and approved by 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 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.

A table summarizing analytical data, including nondetect results and detection limits, is attached as Appendix C. Since all data discussed herein share the “MSA” prefix and the six-digit date as suffix, these indicators are dropped when referring to transects or samples (e.g., “SW39” refers to transect MSA-SW39), to improve readability. Likewise, although shown on tables and figures, data qualifiers such as ‘*J*’ are not used in the text discussions to increase readability.

## **4.2 VOLATILE ORGANIC COMPOUND SURFACE WATER SAMPLING RESULTS**

As stated above, no VOCs were detected in the 28 surface water samples collected from Frog Mortar Creek in March 2022. Table 4-1 and Figure 4-1 compare March 2022 results for TCE, *cis*-1,2-DCE, and VC to results detected during the previous sampling round (December 2021) and the sampling round from one year ago (March 2021).

During the last sampling round in December 2021, VC was the sole VOC detected in surface water, and exceeded its lowest (swimming) screening criterion (0.7 micrograms per liter [ $\mu\text{g/L}$ ]) at all four locations at which it was detected. Eight VOCs were detected during last year’s (March 2021) sampling event; all were detected at multiple locations except TCE, which was detected only at location SW49A. All VOCs detected last year in March 2021 were below their specific screening criterion, except for VC, which exceeded its site-specific swimming criterion at eight locations. Nondetect results were reported for the trip blank during each sampling event. An equipment blank was collected in March 2022 (only) per the approved work plan (Tetra Tech, 2021a), and acetone was detected at an estimated concentration (7.5 $J$   $\mu\text{g/L}$ ) above the method detection limit but below

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the reporting limit; no action was taken because only nondetects were reported for acetone in associated samples.

#### **4.2.1 Trichloroethene Results**

As stated above, TCE was nondetect in March 2022 samples, but was detected at a concentration (0.71 µg/L) below its lowest screening level (i.e., 10 µg/L swimming criterion), at one sampling location (SW49A) in March 2021. Last year's low detection, and the nondetect results during the previous (December 2021) and current (March 2022) sampling rounds, are consistent with the decreasing trend of TCE observed in Frog Mortar Creek since March 2019.

#### **4.2.2 *cis*-1,2-Dichloroethene Results**

As stated above, *cis*-1,2-DCE was nondetect in the March 2022 and December 2021 surface water samples, but was detected below its lowest screening level (i.e., swimming criterion of 300 µg/L) at 16 of 32 sampling locations in March 2021, with concentrations ranging from 0.16 µg/L to 2.2 µg/L at SW49A (Figure 4-1). All *cis*-1,2-DCE detections in 2020 and 2021 were well below the lowest screening level.

When detected in previous rounds, the distributions of *cis*-1,2-DCE in the higher concentration transects tended to decrease with increasing distance from the shore.

#### **4.2.3 Vinyl Chloride Results**

VC was nondetect at all sampled locations in March 2022, but was detected at four location during the previous sampling round (December 2021) at concentrations (1 µg/L–2.4 µg/L) above its lowest screening (swimming) criterion (0.7 µg/L). In addition, VC exceedances occurred at eight of 19 locations (0.78 µg/L–4.5 µg/L [SW40A]) in March 2021 (Figure 4-1).

When detected in previous rounds, VC distributions in the higher concentration transects tended to decrease with increasing distance from the shore.

#### **4.2.4 Tentatively Identified Compound Results**

A TIC search was performed for chlorodifluoromethane, and the compound was not detected in any of the samples analyzed. The TIC 2-ethyl-1-hexanol was presumptively identified in the

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surface water sample collected from location MSA-SW48A in March 2022, at an estimated concentration of 2.1 NJ  $\mu\text{g/L}$ .

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## SECTION 5 SUMMARY

The Lockheed Martin Corporation March 2022 Frog Mortar Creek surface-water investigation results are summarized below:

- Twenty-eight surface water samples were collected on March 11, 2022, 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 six transects spaced approximately 350 feet apart (for 24 samples) along the western shoreline of Frog Mortar Creek. Four samples were collected along each transect: one near the shoreline (“A” sample), one approximately 50 feet from the shoreline (“B” sample), one approximately 100 feet from the shoreline (“C” sample), and the last 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), for a total of 28 samples.
- Samples collected in March 2022 from Frog Mortar Creek were analyzed for volatile organic compounds (VOCs).
- The data were validated in accordance with the United States Environmental Protection Agency (USEPA) *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA, 2020), and the specifics of the analytical methods used.
- Sampling results were screened against (1) United States Environmental Protection Agency Region 3 Biological Technical Advisory Group (BTAG) ecological screening-benchmarks for freshwater; (2) 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; (3) Maryland ambient water quality criteria (AWQC) for acute and chronic aquatic-organism exposures and for human health aquatic-organism-consumption; and (4) 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).
- No volatile organic compounds were detected in the March 2022 surface water samples collected from Frog Mortar Creek.
- The next surface water sampling event at Frog Mortar Creek will occur in July 2022.

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## SECTION 6 REFERENCES

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# FIGURES

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**Figure 1-1 Martin State Airport, Site Location Map**

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

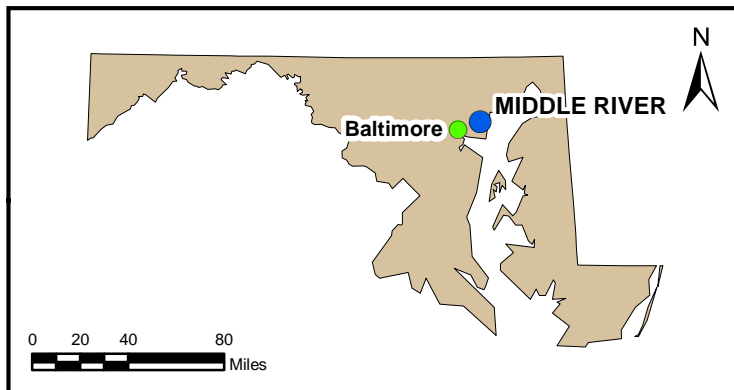
**Figure 2-2 Site Features and Areas of Concern, Dump Road Area**

**Figure 3-1 2022 Surface Water Sampling Locations, Frog Mortar Creek**

**Figure 4-1 Concentrations of Trichloroethene, *cis*-1,2-Dichloroethene, and Vinyl Chloride along Surface Water Sampling Transects for March 2021, December 2021, and March 2022, Frog Mortar Creek**



Aerial photograph provided by ESRI's ArcGIS Online World Imagery map service (© 2013 ESRI and its data suppliers).



**FIGURE 1-1**

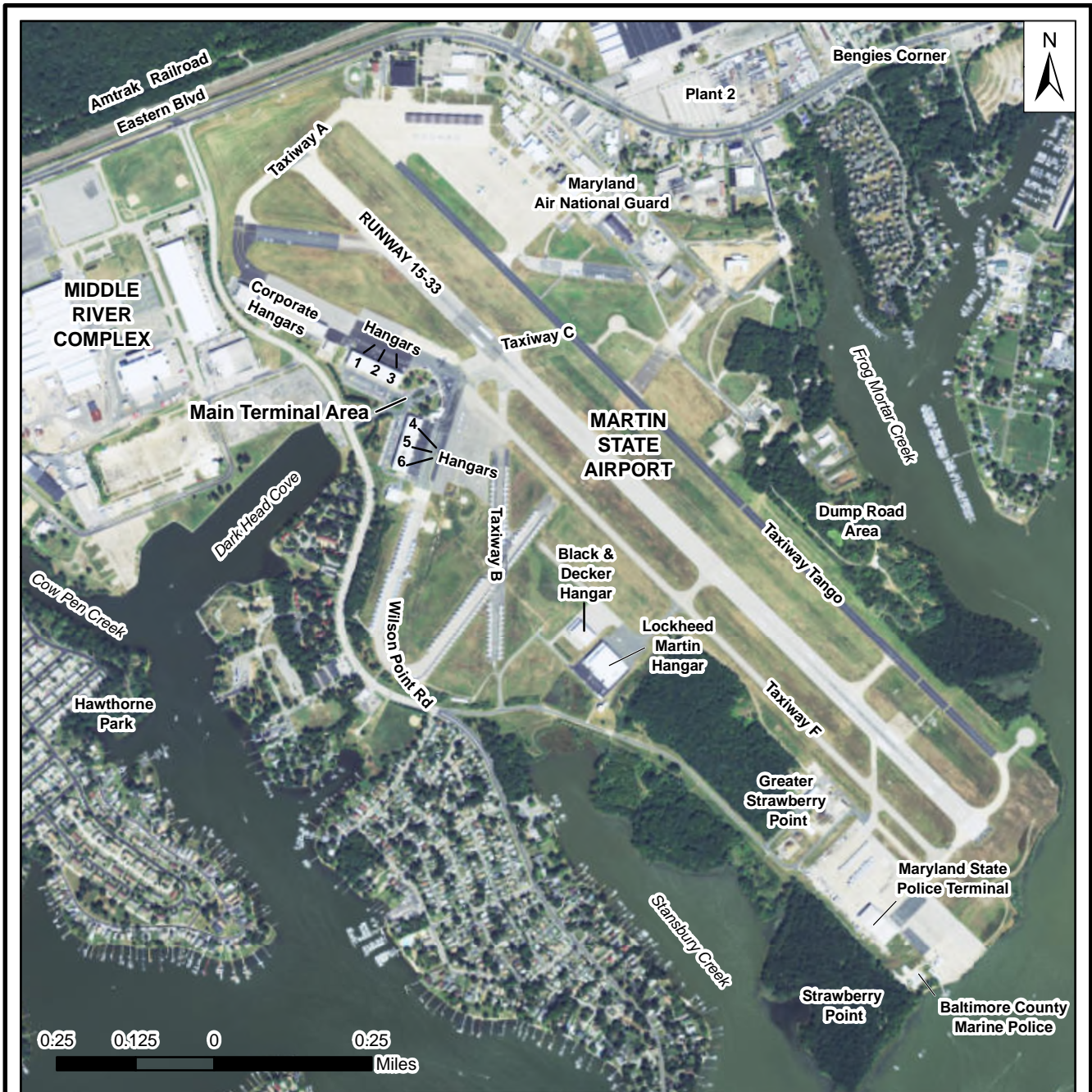
**MARTIN STATE AIRPORT  
SITE LOCATION MAP**

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

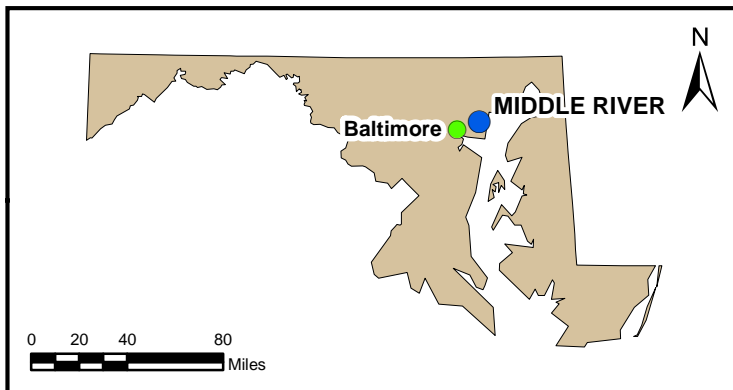
DATE MODIFIED: 12/16/15

CREATED BY: JEE





Aerial photograph provided by ESRI's ArcGIS Online World Imagery map service (© 2013 ESRI and its data suppliers).



**FIGURE 2-1**

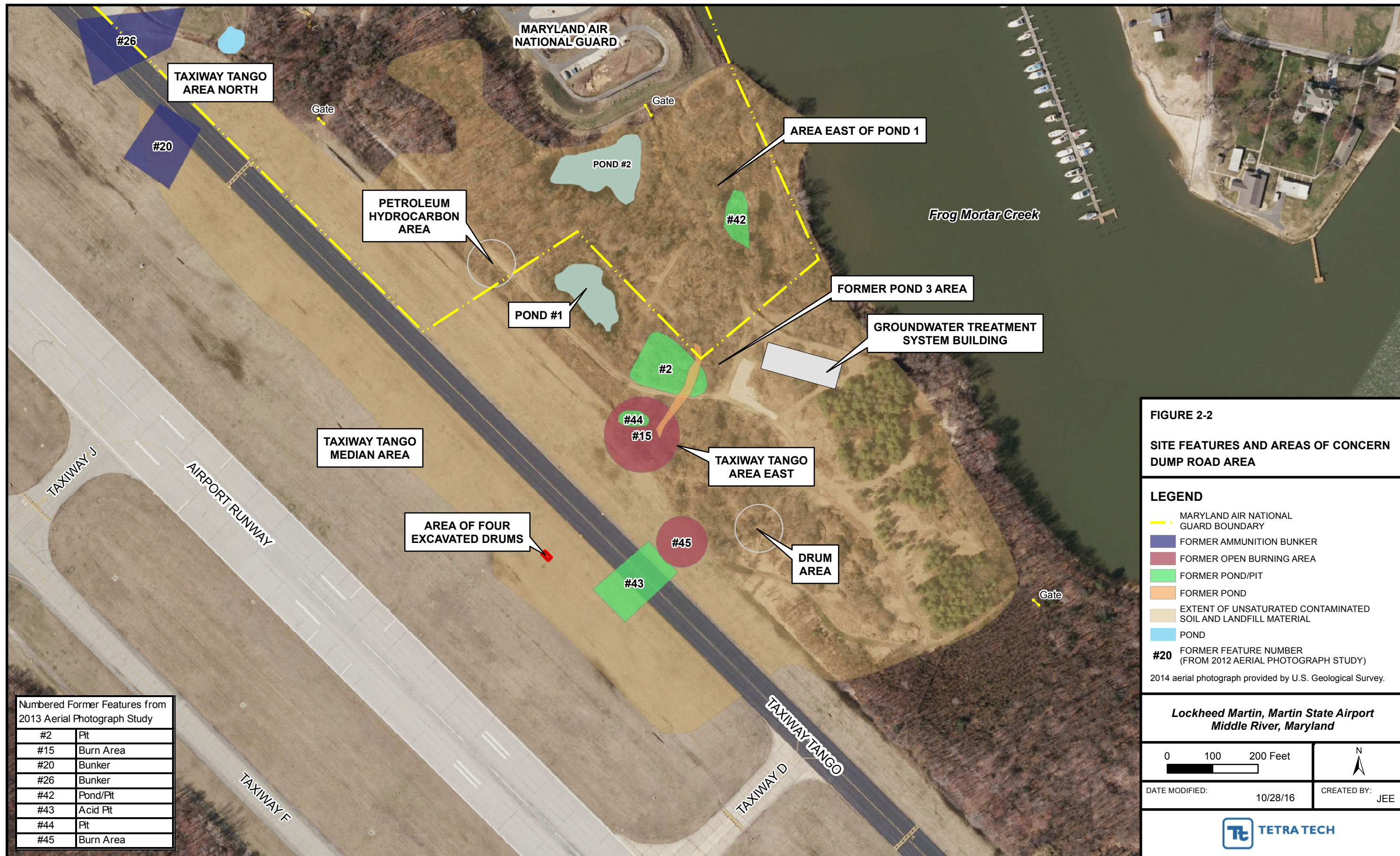
**MARTIN STATE AIRPORT AND SURROUNDING FEATURES**

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

DATE MODIFIED: 08/27/15

CREATED BY: JEE





**FIGURE 2-2**  
**SITE FEATURES AND AREAS OF CONCERN**  
**DUMP ROAD AREA**

**LEGEND**

- MARYLAND AIR NATIONAL GUARD BOUNDARY
- FORMER AMMUNITION BUNKER
- FORMER OPEN BURNING AREA
- FORMER POND/PIT
- FORMER POND
- EXTENT OF UNSATURATED CONTAMINATED SOIL AND LANDFILL MATERIAL
- POND
- #20** FORMER FEATURE NUMBER (FROM 2012 AERIAL PHOTOGRAPH STUDY)

2014 aerial photograph provided by U.S. Geological Survey.

| Numbered Former Features from 2013 Aerial Photograph Study |           |
|--|-----------|
| #2   | Pit       |
| #15  | Burn Area |
| #20  | Bunker    |
| #26  | Bunker    |
| #42  | Pond/Pit  |
| #43  | Acid Pit  |
| #44  | Pit       |
| #45  | Burn Area |

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

0 100 200 Feet

N

DATE MODIFIED: 10/28/16      CREATED BY: JEE



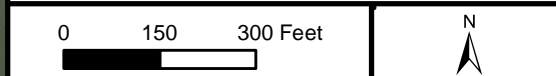


**FIGURE 3-1**  
**2022 SURFACE WATER SAMPLING**  
**LOCATIONS,**  
**FROG MORTAR CREEK**

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

2017 aerial photograph provided by the State of Maryland.

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



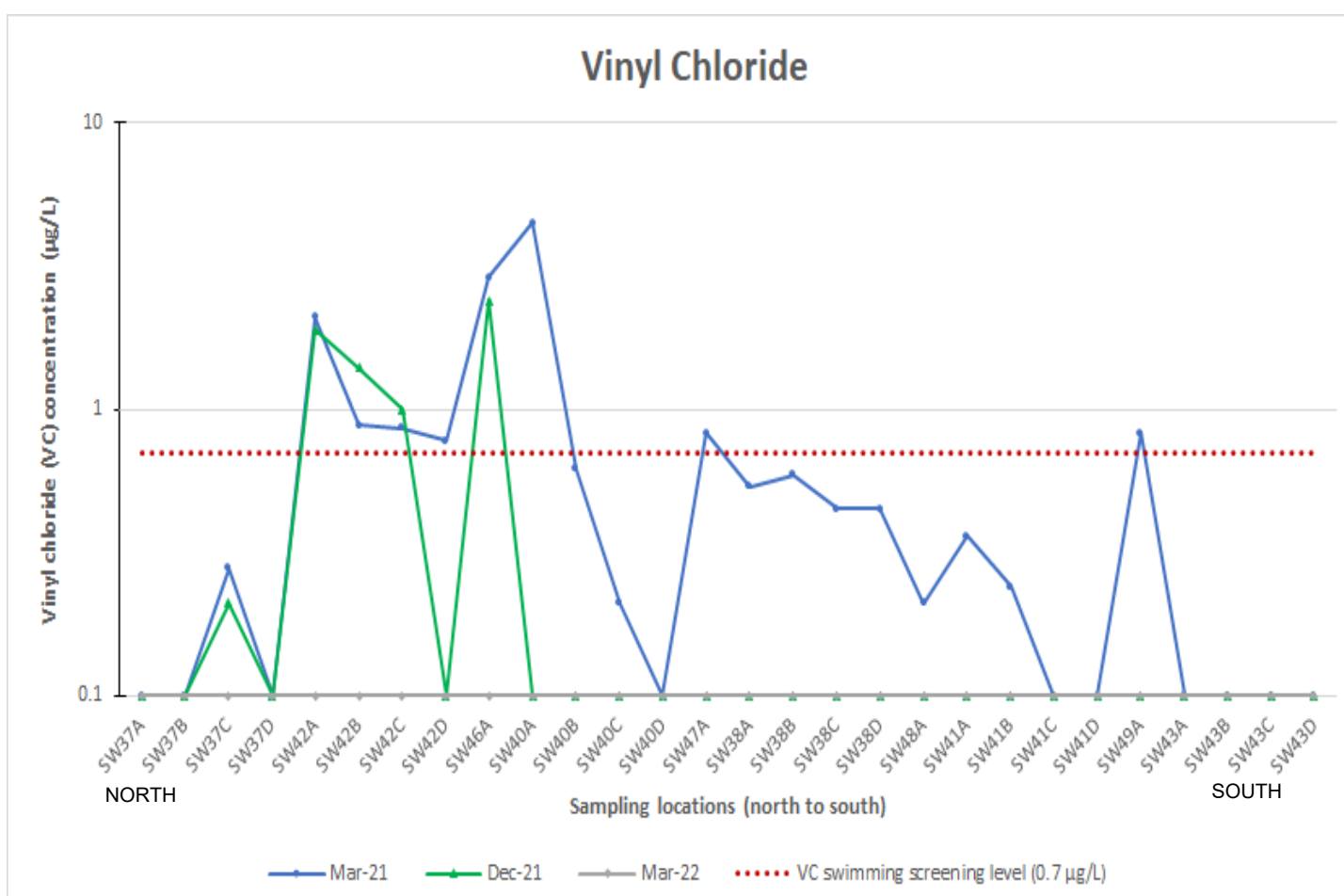
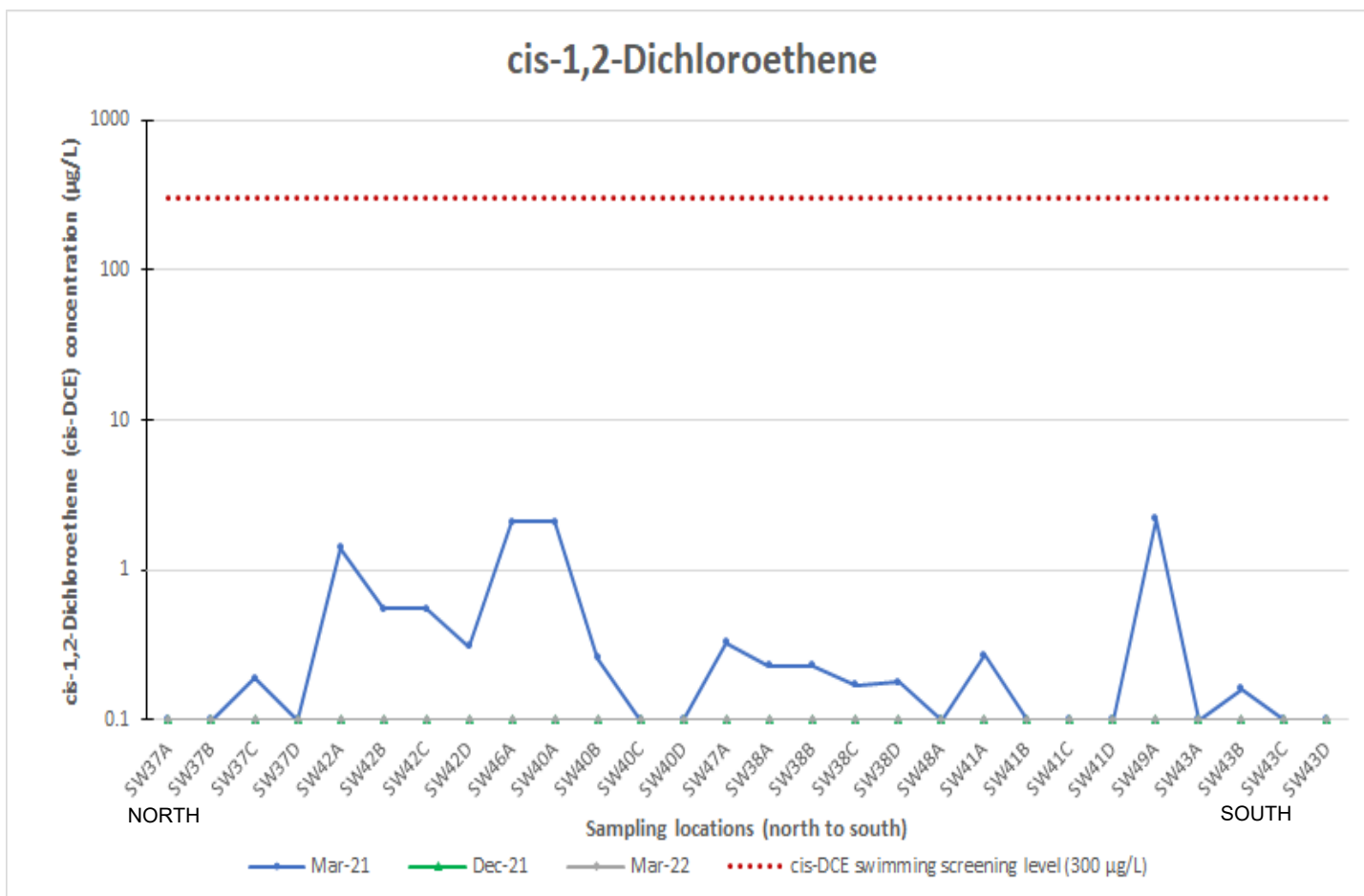
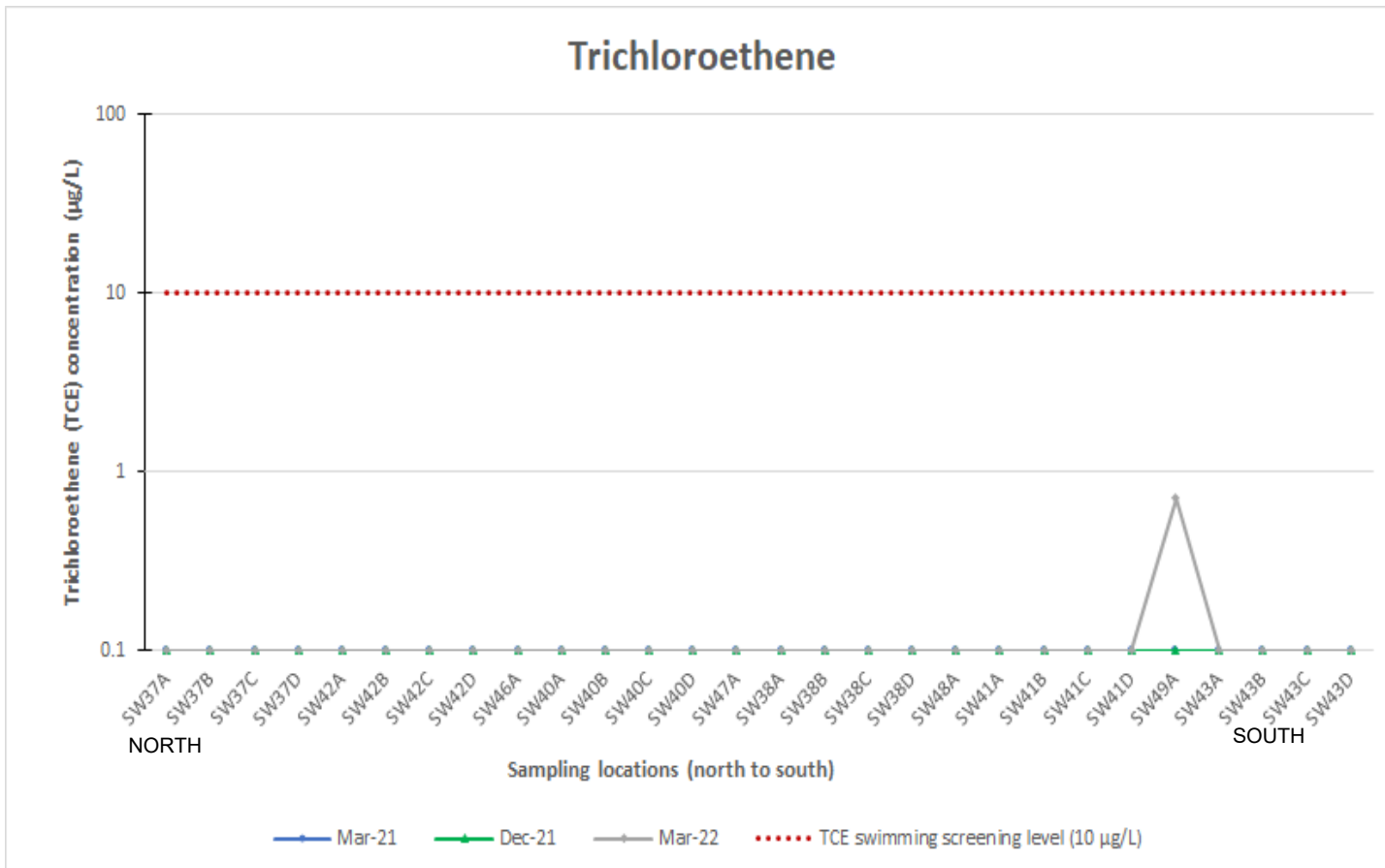
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FIGURE 4-1

CONCENTRATIONS OF TRICHLOROETHENE, cis-1,2-DICHLOROETHENE, AND VINYL CHLORIDE ALONG SURFACE WATER SAMPLING TRANSECTS FOR MARCH 2021, DECEMBER 2021, AND MARCH 2022, FROG MORTAR CREEK

Note: All concentrations are in micrograms per liter (µg/L).



Lockheed Martin, Martin State Airport  
Middle River, Maryland

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6/15/2022

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LMW



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# TABLES



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**Table 3-1 List of Samples and Chemical Analyses for Surface Water—March 2021**

**Table 4-1 Comparison of Primary Volatile Organic Compound Results Detected in Surface Water for the March 2021, December 2021, and March 2022 Sampling Rounds**

**Table 3-1**  
**List of Samples and Chemical Analyses for Surface Water—March 2022**  
**Frog Mortar Creek, Martin State Airport**  
**Middle River, Maryland**

| Surface water sampling location/<br>Transect No. <sup>(1)</sup> | Analytical Requirements<br><br>Volatile organic compounds<br>(USEPA SW846 8260C)<br>3 × 40 mL vials with hydrochloric acid |
|---|--|
| MSA-SW37  | ✓  |
| MSA-SW38  | ✓  |
| MSA-SW40  | ✓  |
| MSA-SW41  | ✓  |
| MSA-SW42  | ✓  |
| MSA-SW43  | ✓  |
| MSA-SW46  | ✓  |
| MSA-SW47  | ✓  |
| MSA-SW48  | ✓  |
| MSA-SW49  | ✓  |

1. Four samples, at locations -A, -B, -C, and -D, were collected from each transect, except for sampling locations SW46 through SW49, where only near-shore “A” samples were collected.

*Abbreviations:*

mL – milliliter

USEPA – United States Environmental Protection Agency

**Table 4-1**  
**Comparison of Primary Volatile Organic Compounds Detected in Surface Water in the March 2021,**  
**December 2021, and March 2022 Sampling Rounds**  
**Frog Mortar Creek, Middle River, Maryland**

| Date   | Trichloroethene concentrations (µg/L) |                   |                | <i>cis</i> -1,2-Dichloroethene concentrations (µg/L) |                   |                | Vinyl chloride concentrations (µg/L) |                   |                |
|--|---------------------------------------|-------------------|----------------|--|-------------------|----------------|--------------------------------------|-------------------|----------------|
|  | March 8, 2021                         | December 14, 2021 | March 11, 2022 | March 8, 2021  | December 14, 2021 | March 11, 2022 | March 8, 2021                        | December 14, 2021 | March 11, 2022 |
| <b>Average-Detections</b>                      | <b>0.71</b>                           | --                | --             | <b>0.702</b>   | --                | --             | <b>0.939</b>                         | <b>1.675</b>      | --             |
| <b>Average-All Samples<sup>(1)</sup></b>       | <b>0.0706</b>                         | <b>0.230</b>      | <b>0.5</b>     | <b>0.391</b>   | <b>0.405</b>      | <b>0.5</b>     | <b>0.598</b>                         | <b>0.603</b>      | <b>0.5</b>     |
| <b>Maximum Concentration</b>                   | <b>0.71 J</b>                         | --                | --             | <b>2.2</b>   | --                | --             | <b>4.5</b>                           | <b>2.4</b>        | --             |
| <b>No. of Detections/Samples<sup>(2)</sup></b> | <b>1/32</b>                           | <b>0/32</b>       | <b>0/28</b>    | <b>16/32</b>   | <b>0/32</b>       | <b>0/28</b>    | <b>19/32</b>                         | <b>4/32</b>       | <b>0/28</b>    |
| <b>LOCATION ID</b>                             |                                       |                   |                |  |                   |                |                                      |                   |                |
| MSA-SW37A                                      | --                                    | --                | --             | --   | --                | --             | --                                   | --                | --             |
| MSA-SW37B                                      | --                                    | --                | --             | --   | --                | --             | --                                   | --                | --             |
| MSA-SW38C                                      | --                                    | --                | --             | 0.19 J   | --                | --             | 0.28 J                               | --                | --             |
| MSA-SW38D                                      | --                                    | --                | --             | --   | --                | --             | 0.21 J                               | --                | --             |
| MSA-SW38A                                      | --                                    | --                | --             | 0.23 J   | --                | --             | 0.54 J                               | --                | --             |
| MSA-SW38B                                      | --                                    | --                | --             | 0.23 J   | --                | --             | 0.59 J                               | --                | --             |
| MSA-SW38C                                      | --                                    | --                | --             | 0.17 J   | --                | --             | 0.45 J                               | --                | --             |
| MSA-SW38D                                      | --                                    | --                | --             | 0.18 J   | --                | --             | 0.45 J                               | --                | --             |
| MSA-SW40A                                      | --                                    | --                | --             | 2.1  | --                | --             | <b>4.5</b>                           | --                | --             |
| MSA-SW40B                                      | --                                    | --                | --             | 0.26 J   | --                | --             | 0.62 J                               | --                | --             |
| MSA-SW40C                                      | --                                    | --                | --             | --   | --                | --             | 0.21 J                               | --                | --             |
| MSA-SW40D                                      | --                                    | --                | --             | --   | --                | --             | --                                   | --                | --             |
| MSA-SW41A                                      | --                                    | --                | --             | 0.27 J   | --                | --             | 0.36 J                               | --                | --             |
| MSA-SW41B                                      | --                                    | --                | --             | --   | --                | --             | 0.24 J                               | --                | --             |
| MSA-SW41C                                      | --                                    | --                | --             | --   | --                | --             | --                                   | --                | --             |
| MSA-SW41D                                      | --                                    | --                | --             | --   | --                | --             | --                                   | --                | --             |
| MSA-SW42A                                      | --                                    | --                | --             | 1.4  | --                | --             | <b>2.1</b>                           | <b>1.9</b>        | --             |
| MSA-SW42B                                      | --                                    | --                | --             | 0.55 J   | --                | --             | <b>0.88 J</b>                        | <b>1.4</b>        | --             |
| MSA-SW42C                                      | --                                    | --                | --             | 0.55 J   | --                | --             | <b>0.86 J</b>                        | <b>1</b>          | --             |
| MSA-SW42D                                      | --                                    | --                | --             | 0.31 J   | --                | --             | <b>0.78 J</b>                        | --                | --             |
| MSA-SW43A                                      | --                                    | --                | --             | --   | --                | --             | --                                   | --                | --             |
| MSA-SW43B                                      | --                                    | --                | --             | 0.16 J   | --                | --             | --                                   | --                | --             |
| MSA-SW43C                                      | --                                    | --                | --             | --   | --                | --             | --                                   | --                | --             |
| MSA-SW43D                                      | --                                    | --                | --             | --   | --                | --             | --                                   | --                | --             |
| MSA-SW46A                                      | --                                    | --                | --             | 2.1  | --                | --             | <b>2.9</b>                           | <b>2.4</b>        | --             |
| MSA-SW47A                                      | --                                    | --                | --             | 0.33 J   | --                | --             | <b>0.83 J</b>                        | --                | --             |
| MSA-SW48A                                      | --                                    | --                | --             | --   | --                | --             | 0.21 J                               | --                | --             |
| MSA-SW49A                                      | 0.71 J                                | --                | --             | 2.2  | --                | --             | <b>0.83 J</b>                        | --                | --             |

1 -Averages were calculated using 1/2 sample quantitation limit (nondetects) and 1/2 the detection limit (B-qualified data).

2 - The number of samples collected per round decreased from 32 to 28 starting in March 2022.

**Bold font indicates detected concentration exceeds its lowest (swimming) screening criterion.**

Swimming criteria are MDE-approved and are 10 µg/L for trichloroethene , 300 µg/L for *cis*-1,2-dichloroethene, and 0.7 µg/L for vinyl chloride.

-- - not detected

J - estimated value

µg/L - micrograms per liter

MDE - Maryland Department of the Environment

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# APPENDICES

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

**Appendix B—Data-Validation and Full Laboratory Reports**

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

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

**Water Quality Field Parameters-March 2022**  
**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)                     | Feet        |
| MSA-SW37A | -031122 | 3/11/2022   | 1021          | 7.77                 | 3.85                                | 10.69                | 10.90                              | 6.39                        | 2.00                     | 216                                 | 1.20        |
| MSA-SW37B | -031122 | 3/11/2022   | 1014          | 7.76                 | 3.87                                | 10.76                | 9.32                               | 6.44                        | 2.02                     | 215                                 | 3.60        |
| MSA-SW37C | -031122 | 3/11/2022   | 1028          | 7.79                 | 3.91                                | 10.83                | 9.21                               | 6.42                        | 2.04                     | 215                                 | 5.00        |
| MSA-SW37D | -031122 | 3/11/2022   | 1034          | 7.83                 | 3.91                                | 10.81                | 8.23                               | 6.43                        | 2.04                     | 215                                 | >6          |
| MSA-SW38A | -031122 | 3/11/2022   | 0915          | 7.62                 | 3.87                                | 10.44                | 11.05                              | 6.33                        | 2.02                     | 220                                 | 1.60        |
| MSA-SW38B | -031122 | 3/11/2022   | 0922          | 7.63                 | 3.88                                | 10.28                | 10.48                              | 6.44                        | 2.02                     | 220                                 | 4.60        |
| MSA-SW38C | -031122 | 3/11/2022   | 0927          | 7.65                 | 3.88                                | 10.30                | 10.33                              | 6.55                        | 2.02                     | 220                                 | 4.90        |
| MSA-SW38D | -031122 | 3/11/2022   | 0933          | 7.68                 | 3.88                                | 10.34                | 9.40                               | 6.72                        | 2.03                     | 219                                 | 5.10        |
| MSA-SW40A | -031122 | 3/11/2022   | 0939          | 7.72                 | 3.88                                | 10.31                | 10.92                              | 6.58                        | 2.02                     | 218                                 | 1.70        |
| MSA-SW40B | -031122 | 3/11/2022   | 0943          | 7.73                 | 3.88                                | 10.43                | 9.72                               | 6.58                        | 2.02                     | 218                                 | 3.80        |
| MSA-SW40C | -031122 | 3/11/2022   | 0947          | 7.75                 | 3.89                                | 10.53                | 9.92                               | 6.55                        | 2.03                     | 217                                 | 3.60        |
| MSA-SW40D | -031122 | 3/11/2022   | 0951          | 7.76                 | 3.88                                | 10.43                | 9.49                               | 6.53                        | 2.03                     | 217                                 | 5.10        |
| MSA-SW41A | -031122 | 3/11/2022   | 0846          | 7.43                 | 3.88                                | 10.17                | 8.79                               | 6.37                        | 2.02                     | 226                                 | 2.30        |
| MSA-SW41B | -031122 | 3/11/2022   | 0848          | 7.46                 | 3.87                                | 10.25                | 10.38                              | 6.51                        | 2.02                     | 225                                 | 3.60        |
| MSA-SW41C | -031122 | 3/11/2022   | 0854          | 7.49                 | 3.90                                | 10.08                | 9.29                               | 6.44                        | 2.03                     | 223                                 | 4.70        |
| MSA-SW41D | -031122 | 3/11/2022   | 0859          | 7.60                 | 3.90                                | 10.19                | 8.69                               | 6.90                        | 2.03                     | 222                                 | >6          |
| MSA-SW42A | -031122 | 3/11/2022   | 1001          | 7.77                 | 3.87                                | 10.54                | 11.71                              | 6.38                        | 2.02                     | 216                                 | 1.20        |
| MSA-SW42B | -031122 | 3/11/2022   | 1006          | 7.76                 | 3.89                                | 10.46                | 9.07                               | 6.72                        | 2.03                     | 217                                 | 4.00        |
| MSA-SW42C | -031122 | 3/11/2022   | 1009          | 7.76                 | 3.89                                | 10.52                | 10.48                              | 6.51                        | 2.03                     | 217                                 | 5.10        |
| MSA-SW42D | -031122 | 3/11/2022   | 1014          | 7.77                 | 3.89                                | 10.56                | 10.13                              | 6.51                        | 2.03                     | 217                                 | >6          |
| MSA-SW43A | -031122 | 3/11/2022   | 0818          | 6.03                 | 3.79                                | 10.30                | 11.30                              | 6.92                        | 1.97                     | 256                                 | 2.00        |
| MSA-SW43B | -031122 | 3/11/2022   | 0824          | 6.40                 | 3.89                                | 9.89                 | 11.06                              | 7.08                        | 2.03                     | 245                                 | 3.10        |
| MSA-SW43C | -031122 | 3/11/2022   | 0827          | 6.75                 | 3.91                                | 10.04                | 8.89                               | 6.97                        | 2.04                     | 242                                 | 5.20        |
| MSA-SW43D | -031122 | 3/11/2022   | 0832          | 6.97                 | 3.91                                | 10.09                | 7.98                               | 6.66                        | 2.04                     | 237                                 | 5.40        |
| MSA-SW46A | -031122 | 3/11/2022   | 0957          | 7.78                 | 3.88                                | 10.30                | 9.87                               | 6.45                        | 2.02                     | 217                                 | 1.70        |
| MSA-SW47A | -031122 | 3/11/2022   | 0933          | 7.69                 | 3.88                                | 10.45                | 9.53                               | 6.72                        | 2.02                     | 220                                 | 3.00        |
| MSA-SW48A | -031122 | 3/11/2022   | 0905          | 7.62                 | 3.87                                | 10.24                | 9.81                               | 6.45                        | 2.02                     | 221                                 | 2.20        |
| MSA-SW49A | -031122 | 3/11/2022   | 0838          | 7.29                 | 3.89                                | 9.89                 | 10.48                              | 6.42                        | 2.02                     | 230                                 | 1.50        |



# SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC09567

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

Sample ID No.: MSA-SW37A -031122  
 Sample Location: MSA-SW37A  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

Type of Sample:  
 Low Concentration  
 High Concentration

**SAMPLING DATA:**

|         |                  |                   |              |                 |               |                    |              |                   |           |
|---------|------------------|-------------------|--------------|-----------------|---------------|--------------------|--------------|-------------------|-----------|
| Date:   | 3/11/2022        | Color<br>(Visual) | pH<br>(S.U.) | S.C.<br>(mS/cm) | Temp.<br>(°C) | Turbidity<br>(NTU) | DO<br>(mg/L) | Salinity<br>(ppt) | ORP<br>mV |
| Time:   | 1021             | clear             | 7.77         | 3.85            | 10.69         | 10.9               | 6.39         | 2                 | 216       |
| Depth:  | 1 ft below water |                   |              |                 |               |                    |              |                   |           |
| Method: | Grab             |                   |              |                 |               |                    |              |                   |           |

**SAMPLE COLLECTION INFORMATION:**

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
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**OBSERVATIONS / NOTES:**

Water depth 1.2 Feet

**MAP:**



**Circle if Applicable:**

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

**Signature(s):**





# SURFACE WATER SAMPLE LOG SHEET

|  |  |   |                          |
|--|--|---|--------------------------|
| Project Site Name:                         | <u>Frog Mortar Creek, Martin State Airport</u> | Sample ID No.:  | <u>MSA-SW37B -031122</u> |
| Project No.:                               | <u>112IC09567</u>                              | Sample Location:                                      | <u>MSA-SW37B</u>         |
| <input type="checkbox"/> Stream            |  | Sampled By:   | <u>J. Mullis</u>         |
| <input type="checkbox"/> Spring            |  | C.O.C. No.:   | _____                    |
| <input type="checkbox"/> Pond              |  | Type of Sample:                                       |                          |
| <input type="checkbox"/> Lake              |  | <input checked="" type="checkbox"/> Low Concentration |                          |
| <input checked="" type="checkbox"/> Other: | <u>Tidal creek - freshwater</u>                | <input type="checkbox"/> High Concentration           |                          |
| <input type="checkbox"/> QA Sample Type:   | _____  |   |                          |

**SAMPLING DATA:**

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 3/11/2022        | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1014             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.76   | 3.87    | 10.76 | 9.32      | 6.44   | 2.02     | 215 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

**SAMPLE COLLECTION INFORMATION:**

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
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**OBSERVATIONS / NOTES:**

Water depth                      3.6 Feet

**MAP:**



|                                 |                   |                      |
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| <b>Circle if Applicable:</b>    |                   | <b>Signature(s):</b> |
| <input type="checkbox"/> MS/MSD | Duplicate ID No.: |                      |
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# SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport Sample ID No.: MSA-SW37C -031122  
 Project No.: 112IC09567 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:   | 3/11/2022        | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1028             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.79   | 3.91    | 10.83 | 9.21      | 6.42   | 2.04     | 215 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

### SAMPLE COLLECTION INFORMATION:

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
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### OBSERVATIONS / NOTES:

Water depth                      5 Feet

### MAP:



### Circle if Applicable:

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

### Signature(s):



# SURFACE WATER SAMPLE LOG SHEET

|  |  |   |                          |
|--|--|---|--------------------------|
| Project Site Name:                         | <u>Frog Mortar Creek, Martin State Airport</u> | Sample ID No.:  | <u>MSA-SW37D -031122</u> |
| Project No.:                               | <u>112IC09567</u>                              | Sample Location:                                      | <u>MSA-SW37D</u>         |
| <input type="checkbox"/> Stream            |  | Sampled By:   | <u>J. Mullis</u>         |
| <input type="checkbox"/> Spring            |  | C.O.C. No.:   | _____                    |
| <input type="checkbox"/> Pond              |  | Type of Sample:                                       |                          |
| <input type="checkbox"/> Lake              |  | <input checked="" type="checkbox"/> Low Concentration |                          |
| <input checked="" type="checkbox"/> Other: | <u>Tidal creek - freshwater</u>                | <input type="checkbox"/> High Concentration           |                          |
| <input type="checkbox"/> QA Sample Type:   | _____  |   |                          |

**SAMPLING DATA:**

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 3/11/2022        | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1034             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.83   | 3.91    | 10.81 | 8.23      | 6.43   | 2.04     | 215 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

**SAMPLE COLLECTION INFORMATION:**

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
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**OBSERVATIONS / NOTES:**

Water depth >6 Feet

**MAP:**



**Circle if Applicable:**

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



# SURFACE WATER SAMPLE LOG SHEET

|  |  |   |                          |
|--|--|---|--------------------------|
| Project Site Name:                         | <u>Frog Mortar Creek, Martin State Airport</u> | Sample ID No.:  | <u>MSA-SW38A -031122</u> |
| Project No.:                               | <u>112IC09567</u>                              | Sample Location:                                      | <u>MSA-SW38A</u>         |
| <input type="checkbox"/> Stream            |  | Sampled By:   | <u>J. Mullis</u>         |
| <input type="checkbox"/> Spring            |  | C.O.C. No.:   | _____                    |
| <input type="checkbox"/> Pond              |  | Type of Sample:                                       |                          |
| <input type="checkbox"/> Lake              |  | <input checked="" type="checkbox"/> Low Concentration |                          |
| <input checked="" type="checkbox"/> Other: | <u>Tidal creek - freshwater</u>                | <input type="checkbox"/> High Concentration           |                          |
| <input type="checkbox"/> QA Sample Type:   | _____  |   |                          |

| SAMPLING DATA: |                         |          |  |        |  |         |  |       |  |        |  |          |  |     |  |
|----------------|-------------------------|----------|--|--------|--|---------|--|-------|--|--------|--|----------|--|-----|--|
| Date:          | <u>3/11/2022</u>        | Color    |  | pH     |  | S.C.    |  | Temp. |  | DO     |  | Salinity |  | ORP |  |
| Time:          | <u>0915</u>             | (Visual) |  | (S.U.) |  | (mS/cm) |  | (°C)  |  | (mg/L) |  | (ppt)    |  | mV  |  |
| Depth:         | <u>1 ft below water</u> | clear    |  | 7.62   |  | 3.87    |  | 10.44 |  | 6.33   |  | 2.02     |  | 220 |  |
| Method:        | <u>Grab</u>             |          |  |        |  |         |  |       |  |        |  |          |  |     |  |

| SAMPLE COLLECTION INFORMATION: |              |                        |           |
|--------------------------------|--------------|------------------------|-----------|
| Analysis                       | Preservative | Container Requirements | Collected |
| VOCs + TICs                    | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|                                |              |                        |           |
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| OBSERVATIONS / NOTES:  | MAP: |
|--|------|
| <p>Water depth <span style="float: right;">1.6 Feet</span></p> |      |

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



# SURFACE WATER SAMPLE LOG SHEET

|  |  |   |                          |
|--|--|---|--------------------------|
| Project Site Name:                         | <u>Frog Mortar Creek, Martin State Airport</u> | Sample ID No.:  | <u>MSA-SW38B -031122</u> |
| Project No.:                               | <u>112IC09567</u>                              | Sample Location:                                      | <u>MSA-SW38B</u>         |
| <input type="checkbox"/> Stream            |  | Sampled By:   | <u>J. Mullis</u>         |
| <input type="checkbox"/> Spring            |  | C.O.C. No.:   | _____                    |
| <input type="checkbox"/> Pond              |  | Type of Sample:                                       |                          |
| <input type="checkbox"/> Lake              |  | <input checked="" type="checkbox"/> Low Concentration |                          |
| <input checked="" type="checkbox"/> Other: | <u>Tidal creek - freshwater</u>                | <input type="checkbox"/> High Concentration           |                          |
| <input type="checkbox"/> QA Sample Type:   | _____  |   |                          |

| SAMPLING DATA: |                         |              |  |             |  |             |  |              |  |             |  |             |  |            |  |
|----------------|-------------------------|--------------|--|-------------|--|-------------|--|--------------|--|-------------|--|-------------|--|------------|--|
| Date:          | <u>3/11/2022</u>        | Color        |  | pH          |  | S.C.        |  | Temp.        |  | DO          |  | Salinity    |  | ORP        |  |
| Time:          | <u>0922</u>             | (Visual)     |  | (S.U.)      |  | (mS/cm)     |  | (°C)         |  | (mg/L)      |  | (ppt)       |  | mV         |  |
| Depth:         | <u>1 ft below water</u> | <b>clear</b> |  | <b>7.63</b> |  | <b>3.88</b> |  | <b>10.28</b> |  | <b>6.44</b> |  | <b>2.02</b> |  | <b>220</b> |  |
| Method:        | <u>Grab</u>             |              |  |             |  |             |  |              |  |             |  |             |  |            |  |

| SAMPLE COLLECTION INFORMATION: |              |                        |           |
|--------------------------------|--------------|------------------------|-----------|
| Analysis                       | Preservative | Container Requirements | Collected |
| VOCs + TICs                    | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|                                |              |                        |           |
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| OBSERVATIONS / NOTES:  | MAP: |
|--|------|
| <p>Water depth <span style="float: right;">4.6 Feet</span></p> |      |

|                                 |                         |                       |
|---------------------------------|-------------------------|-----------------------|
| Circle if Applicable:           |                         | Signature(s):<br><br> |
| <input type="checkbox"/> MS/MSD | Duplicate ID No.: _____ |                       |



# SURFACE WATER SAMPLE LOG SHEET

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

|  |  |   |                          |
|--|--|---|--------------------------|
| Project Site Name:                         | <u>Frog Mortar Creek, Martin State Airport</u> | Sample ID No.:  | <u>MSA-SW38C -031122</u> |
| Project No.:                               | <u>112IC09567</u>                              | Sample Location:                                      | <u>MSA-SW38C</u>         |
| <input type="checkbox"/> Stream            |  | Sampled By:   | <u>J. Mullis</u>         |
| <input type="checkbox"/> Spring            |  | C.O.C. No.:   | _____                    |
| <input type="checkbox"/> Pond              |  | Type of Sample:                                       |                          |
| <input type="checkbox"/> Lake              |  | <input checked="" type="checkbox"/> Low Concentration |                          |
| <input checked="" type="checkbox"/> Other: | <u>Tidal creek - freshwater</u>                | <input type="checkbox"/> High Concentration           |                          |
| <input type="checkbox"/> QA Sample Type:   | _____  |   |                          |

### SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 3/11/2022        | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 0927             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.65   | 3.88    | 10.30 | 10.33     | 6.55   | 2.02     | 220 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

### SAMPLE COLLECTION INFORMATION:

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
|             |              |                        |           |
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### OBSERVATIONS / NOTES:

Water depth 4.9 Feet

### MAP:



### Circle if Applicable:

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

### Signature(s):



# SURFACE WATER SAMPLE LOG SHEET

|  |  |   |                          |
|--|--|---|--------------------------|
| Project Site Name:                         | <u>Frog Mortar Creek, Martin State Airport</u> | Sample ID No.:  | <u>MSA-SW38D -031122</u> |
| Project No.:                               | <u>112IC09567</u>                              | Sample Location:                                      | <u>MSA-SW38D</u>         |
| <input type="checkbox"/> Stream            |  | Sampled By:   | <u>J. Mullis</u>         |
| <input type="checkbox"/> Spring            |  | C.O.C. No.:   | _____                    |
| <input type="checkbox"/> Pond              |  | Type of Sample:                                       |                          |
| <input type="checkbox"/> Lake              |  | <input checked="" type="checkbox"/> Low Concentration |                          |
| <input checked="" type="checkbox"/> Other: | <u>Tidal creek - freshwater</u>                | <input type="checkbox"/> High Concentration           |                          |
| <input type="checkbox"/> QA Sample Type:   | _____  |   |                          |

| SAMPLING DATA: |                         |              |  |             |  |             |  |              |  |             |  |             |  |            |  |
|----------------|-------------------------|--------------|--|-------------|--|-------------|--|--------------|--|-------------|--|-------------|--|------------|--|
| Date:          | <u>3/11/2022</u>        | Color        |  | pH          |  | S.C.        |  | Temp.        |  | DO          |  | Salinity    |  | ORP        |  |
| Time:          | <u>0933</u>             | (Visual)     |  | (S.U.)      |  | (mS/cm)     |  | (°C)         |  | (mg/L)      |  | (ppt)       |  | mV         |  |
| Depth:         | <u>1 ft below water</u> | <b>clear</b> |  | <b>7.68</b> |  | <b>3.88</b> |  | <b>10.34</b> |  | <b>6.72</b> |  | <b>2.03</b> |  | <b>219</b> |  |
| Method:        | <u>Grab</u>             |              |  |             |  |             |  |              |  |             |  |             |  |            |  |

| SAMPLE COLLECTION INFORMATION: |              |                        |           |
|--------------------------------|--------------|------------------------|-----------|
| Analysis                       | Preservative | Container Requirements | Collected |
| VOCs + TICs                    | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|                                |              |                        |           |
|                                |              |                        |           |
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| OBSERVATIONS / NOTES:  | MAP: |
|--|------|
| <p>Water depth <span style="float: right;">5.1 Feet</span></p> |      |

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



**SURFACE WATER SAMPLE LOG SHEET**

|  |  |                  |   |
|--|--|------------------|---|
| Project Site Name:                         | <u>Frog Mortar Creek, Martin State Airport</u> | Sample ID No.:   | <u>MSA-SW40A -031122</u>                              |
| Project No.:                               | <u>112IC09567</u>                              | Sample Location: | <u>MSA-SW40A</u>                                      |
|  |  | Sampled By:      | <u>J. Mullis</u>                                      |
| <input type="checkbox"/> Stream            |  | C.O.C. No.:      | <u>                                </u>               |
| <input type="checkbox"/> Spring            |  | Type of Sample:  |   |
| <input type="checkbox"/> Pond              |  |                  | <input checked="" type="checkbox"/> Low Concentration |
| <input type="checkbox"/> Lake              |  |                  | <input type="checkbox"/> High Concentration           |
| <input checked="" type="checkbox"/> Other: | <u>Tidal creek - freshwater</u>                |                  |   |
| <input type="checkbox"/> QA Sample Type:   | <u>                                </u>        |                  |   |

| SAMPLING DATA: |                         |          |                   |             |                   |             |                   |              |                   |              |                   |             |                   |            |                   |            |                   |
|----------------|-------------------------|----------|-------------------|-------------|-------------------|-------------|-------------------|--------------|-------------------|--------------|-------------------|-------------|-------------------|------------|-------------------|------------|-------------------|
| Date:          | <u>3/11/2022</u>        | Color    | <u>          </u> | pH          | <u>          </u> | S.C.        | <u>          </u> | Temp.        | <u>          </u> | Turbidity    | <u>          </u> | DO          | <u>          </u> | Salinity   | <u>          </u> | ORP        | <u>          </u> |
| Time:          | <u>0939</u>             | (Visual) |                   | (S.U.)      |                   | (mS/cm)     |                   | (°C)         |                   | (NTU)        |                   | (mg/L)      |                   | (ppt)      |                   | mV         |                   |
| Depth:         | <u>1 ft below water</u> | clear    |                   | <u>7.72</u> |                   | <u>3.88</u> |                   | <u>10.31</u> |                   | <u>10.92</u> |                   | <u>6.58</u> |                   | <u>2.0</u> |                   | <u>218</u> |                   |
| Method:        | <u>Grab</u>             |          |                   |             |                   |             |                   |              |                   |              |                   |             |                   |            |                   |            |                   |

| SAMPLE COLLECTION INFORMATION: |              |                        |           |
|--------------------------------|--------------|------------------------|-----------|
| Analysis                       | Preservative | Container Requirements | Collected |
| VOCs + TICs                    | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
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| OBSERVATIONS / NOTES: |                 | MAP: |
|-----------------------|-----------------|------|
| Water depth           | <u>1.7 Feet</u> |      |
|                       |                 |      |

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





# SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC09567

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

Sample ID No.: MSA-SW40B -031122  
 Sample Location: MSA-SW40B  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

Type of Sample:  
 Low Concentration  
 High Concentration

### SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 3/11/2022        | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 0943             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.73   | 3.88    | 10.43 | 9.72      | 6.58   | 2.0      | 218 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

### SAMPLE COLLECTION INFORMATION:

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
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### OBSERVATIONS / NOTES:

Water depth 3.8 Feet

### MAP:



### Circle if Applicable:

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

### Signature(s):



# SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC09567

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

Sample ID No.: MSA-SW40C -031122  
 Sample Location: MSA-SW40C  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

Type of Sample:  
 Low Concentration  
 High Concentration

### SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 3/11/2022        | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 0947             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.75   | 3.89    | 10.53 | 9.92      | 6.55   | 2.0      | 217 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

### SAMPLE COLLECTION INFORMATION:

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
|             |              |                        |           |
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### OBSERVATIONS / NOTES:

Water depth 3.6 Feet

### MAP:



### Circle if Applicable:

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

### Signature(s):

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC09567

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

Sample ID No.: MSA-SW40D -031122  
 Sample Location: MSA-SW40D  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

Type of Sample:  
 Low Concentration  
 High Concentration

**SAMPLING DATA:**

|         |                  |          |  |        |  |         |  |       |  |           |  |        |  |          |  |     |  |
|---------|------------------|----------|--|--------|--|---------|--|-------|--|-----------|--|--------|--|----------|--|-----|--|
| Date:   | 3/11/2022        | Color    |  | pH     |  | S.C.    |  | Temp. |  | Turbidity |  | DO     |  | Salinity |  | ORP |  |
| Time:   | 0951             | (Visual) |  | (S.U.) |  | (mS/cm) |  | (°C)  |  | (NTU)     |  | (mg/L) |  | (ppt)    |  | mV  |  |
| Depth:  | 1 ft below water | clear    |  | 7.76   |  | 3.88    |  | 10.43 |  | 9.49      |  | 6.53   |  | 2.0      |  | 217 |  |
| Method: | Grab             |          |  |        |  |         |  |       |  |           |  |        |  |          |  |     |  |

**SAMPLE COLLECTION INFORMATION:**

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
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**OBSERVATIONS / NOTES:**

Water depth 5.1 Feet

**MAP:**



**Circle if Applicable:**

MS/MSD Duplicate ID No.:

**Signature(s):**





**SURFACE WATER SAMPLE LOG SHEET**

Project Site Name: Frog Mortar Creek, Martin State Airport  
Project No.: 112IC09567

Sample ID No.: MSA-SW41A -031122  
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:   | 3/11/2022        | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 0846             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.43   | 3.88    | 10.17 | 8.79      | 6.37   | 2.0      | 226 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

**SAMPLE COLLECTION INFORMATION:**

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
|             |              |                        |           |
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**OBSERVATIONS / NOTES:**

Water depth 2.3 Feet

**MAP:**



**Circle if Applicable:**

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

**Signature(s):**



### SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport      Sample ID No.: MSA-SW41B -031122  
 Project No.: 112IC09567      Sample Location: MSA-SW41B  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_  
 Stream  
 Spring  
 Pond  
 Lake  
 Other: Tidal creek - freshwater  
 QA Sample Type: \_\_\_\_\_

Type of Sample:  
 Low Concentration  
 High Concentration

**SAMPLING DATA:**

| Date:                   | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
|-------------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
|                         | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| 3/11/2022               |          |        |         |       |           |        |          |     |
| Time: 0848              |          |        |         |       |           |        |          |     |
| Depth: 1 ft below water | clear    | 7.46   | 3.87    | 10.25 | 10.38     | 6.51   | 2.0      | 225 |
| Method: Grab            |          |        |         |       |           |        |          |     |

**SAMPLE COLLECTION INFORMATION:**

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
|             |              |                        |           |
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**OBSERVATIONS / NOTES:**

Water depth                         3.6 Feet

**MAP:****Circle if Applicable:**

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

**Signature(s):**



SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC09567

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

Sample ID No.: MSA-SW41C -031122  
 Sample Location: MSA-SW41C  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

Type of Sample:  
 Low Concentration  
 High Concentration

**SAMPLING DATA:**

| Date:   | 3/11/2022        | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
|         |                  | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Time:   | 0854             | clear    | 7.49   | 3.90    | 10.08 | 9.29      | 6.44   | 2.0      | 223 |
| Depth:  | 1 ft below water |          |        |         |       |           |        |          |     |
| Method: | Grab             |          |        |         |       |           |        |          |     |

**SAMPLE COLLECTION INFORMATION:**

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
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**OBSERVATIONS / NOTES:**

Water depth 4.7 Feet

**MAP:**



**Circle if Applicable:**

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

**Signature(s):**



# SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC09567

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

Sample ID No.: MSA-SW41D -031122  
 Sample Location: MSA-SW41D  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

Type of Sample:  
 Low Concentration  
 High Concentration

### SAMPLING DATA:

|         |                         |          |           |        |             |         |             |       |              |           |             |        |             |          |            |     |            |
|---------|-------------------------|----------|-----------|--------|-------------|---------|-------------|-------|--------------|-----------|-------------|--------|-------------|----------|------------|-----|------------|
| Date:   | <u>3/11/2022</u>        | Color    | <u>  </u> | pH     | <u>7.60</u> | S.C.    | <u>3.90</u> | Temp. | <u>10.19</u> | Turbidity | <u>8.69</u> | DO     | <u>6.90</u> | Salinity | <u>2.0</u> | ORP | <u>222</u> |
| Time:   | <u>0859</u>             | (Visual) |           | (S.U.) |             | (mS/cm) |             | (°C)  |              | (NTU)     |             | (mg/L) |             | (ppt)    |            | mV  |            |
| Depth:  | <u>1 ft below water</u> | clear    |           | 7.60   |             | 3.90    |             | 10.19 |              | 8.69      |             | 6.90   |             | 2.0      |            | 222 |            |
| Method: | <u>Grab</u>             |          |           |        |             |         |             |       |              |           |             |        |             |          |            |     |            |

### SAMPLE COLLECTION INFORMATION:

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
|             |              |                        |           |
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### OBSERVATIONS / NOTES:

Water depth >6 Feet

### MAP:



### Circle if Applicable:

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



# SURFACE WATER SAMPLE LOG SHEET

Page      of     

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC09567

Sample ID No.: MSA-SW42A -031122  
 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:                   | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
|-------------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| 3/11/2022               | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Time: 1001              | clear    | 7.77   | 3.87    | 10.54 | 11.71     | 6.38   | 2.0      | 216 |
| Depth: 1 ft below water |          |        |         |       |           |        |          |     |
| Method: Grab            |          |        |         |       |           |        |          |     |

## SAMPLE COLLECTION INFORMATION:

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
|             |              |                        |           |
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## OBSERVATIONS / NOTES:

Water depth 1.2 Feet

## MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

*J. Mullis*





Tetra Tech

# SURFACE WATER SAMPLE LOG SHEET

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

Project Site Name: Frog Mortar Creek, Martin State Airport

Sample ID No.: MSA-SW42B -031122

Project No.: 112IC09567

Sample Location: MSA-SW42B

Sampled By: J. Mullis

C.O.C. No.: \_\_\_\_\_

Stream

Spring

Pond

Lake

Other: Tidal creek - freshwater

Type of Sample:

Low Concentration

High Concentration

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

### SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 3/11/2022        | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 1006             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.76   | 3.89    | 10.46 | 9.07      | 6.72   | 2.0      | 217 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

### SAMPLE COLLECTION INFORMATION:

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
|             |              |                        |           |
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### OBSERVATIONS / NOTES:

Water depth 4 Feet

### MAP:



### Circle if Applicable:

MS/MSD

Duplicate ID No.:

### Signature(s):



# SURFACE WATER SAMPLE LOG SHEET

|  |  |   |                          |
|--|--|---|--------------------------|
| Project Site Name:                         | <u>Frog Mortar Creek, Martin State Airport</u> | Sample ID No.:  | <u>MSA-SW42C -031122</u> |
| Project No.:                               | <u>112IC09567</u>                              | Sample Location:                                      | <u>MSA-SW42C</u>         |
| <input type="checkbox"/> Stream            |  | Sampled By:   | <u>J. Mullis</u>         |
| <input type="checkbox"/> Spring            |  | C.O.C. No.:   | _____                    |
| <input type="checkbox"/> Pond              |  | Type of Sample:                                       |                          |
| <input type="checkbox"/> Lake              |  | <input checked="" type="checkbox"/> Low Concentration |                          |
| <input checked="" type="checkbox"/> Other: | <u>Tidal creek - freshwater</u>                | <input type="checkbox"/> High Concentration           |                          |
| <input type="checkbox"/> QA Sample Type:   | _____  |   |                          |

**SAMPLING DATA:**

|         |                         |          |              |         |             |       |             |       |              |           |              |    |             |          |            |     |            |
|---------|-------------------------|----------|--------------|---------|-------------|-------|-------------|-------|--------------|-----------|--------------|----|-------------|----------|------------|-----|------------|
| Date:   | <u>3/11/2022</u>        | Color    | <u>clear</u> | pH      | <u>7.76</u> | S.C.  | <u>3.89</u> | Temp. | <u>10.52</u> | Turbidity | <u>10.48</u> | DO | <u>6.51</u> | Salinity | <u>2.0</u> | ORP | <u>217</u> |
| Time:   | <u>1009</u>             | (Visual) | (S.U.)       | (mS/cm) | (°C)        | (NTU) | (mg/L)      | (ppt) | mV           |           |              |    |             |          |            |     |            |
| Depth:  | <u>1 ft below water</u> |          |              |         |             |       |             |       |              |           |              |    |             |          |            |     |            |
| Method: | <u>Grab</u>             |          |              |         |             |       |             |       |              |           |              |    |             |          |            |     |            |

**SAMPLE COLLECTION INFORMATION:**

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
|             |              |                        |           |
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|---|--------------------|
| <p><b>OBSERVATIONS / NOTES:</b></p> <p>Water depth 5.1 Feet</p> | <p><b>MAP:</b></p> |
|---|--------------------|

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



# SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport Sample ID No.: MSA-SW42D -031122  
 Project No.: 112IC09567 Sample Location: MSA-SW42D  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_  
 Stream  
 Spring  
 Pond  
 Lake  
 Other: Tidal creek - freshwater  
 QA Sample Type: \_\_\_\_\_

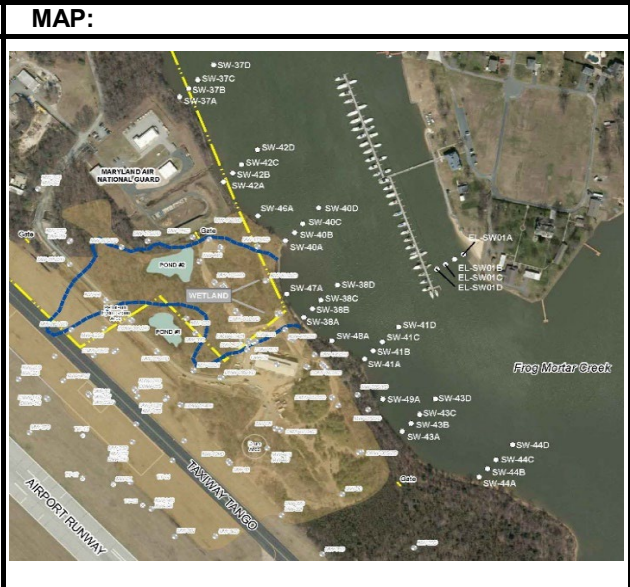
Type of Sample:  
 Low Concentration  
 High Concentration

| SAMPLING DATA: |                  |          |        |         |       |           |        |          |     |
|----------------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:          | 3/11/2022        | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:          | 1014             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:         | 1 ft below water | clear    | 7.77   | 3.89    | 10.56 | 10.13     | 6.51   | 2.0      | 217 |
| Method:        | Grab             |          |        |         |       |           |        |          |     |

| SAMPLE COLLECTION INFORMATION: |              |                        |           |
|--------------------------------|--------------|------------------------|-----------|
| Analysis                       | Preservative | Container Requirements | Collected |
| VOCs + TICs                    | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|                                |              |                        |           |
|                                |              |                        |           |
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**OBSERVATIONS / NOTES:**

Water depth >6 Feet



Circle if Applicable:

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

Signature(s):



# SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC09567

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

Sample ID No.: MSA-SW43A -031122  
 Sample Location: MSA-SW43A  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

Type of Sample:  
 Low Concentration  
 High Concentration

### SAMPLING DATA:

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 3/11/2022        | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 0818             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 6.03   | 3.79    | 10.30 | 11.30     | 6.92   | 2.0      | 256 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

### SAMPLE COLLECTION INFORMATION:

| Analysis    | Preservative | Container Requirements | Collected |
|-------------|--------------|------------------------|-----------|
| VOCs + TICs | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|             |              |                        |           |
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### OBSERVATIONS / NOTES:

Water depth 2 Feet

### MAP:



### Circle if Applicable:

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



# SURFACE WATER SAMPLE LOG SHEET

|  |  |   |                          |
|--|--|---|--------------------------|
| Project Site Name:                         | <u>Frog Mortar Creek, Martin State Airport</u> | Sample ID No.:  | <u>MSA-SW43B -031122</u> |
| Project No.:                               | <u>112IC09567</u>                              | Sample Location:                                      | <u>MSA-SW43B</u>         |
| <input type="checkbox"/> Stream            |  | Sampled By:   | <u>J. Mullis</u>         |
| <input type="checkbox"/> Spring            |  | C.O.C. No.:   | _____                    |
| <input type="checkbox"/> Pond              |  | Type of Sample:                                       |                          |
| <input type="checkbox"/> Lake              |  | <input checked="" type="checkbox"/> Low Concentration |                          |
| <input checked="" type="checkbox"/> Other: | <u>Tidal creek - freshwater</u>                | <input type="checkbox"/> High Concentration           |                          |
| <input type="checkbox"/> QA Sample Type:   | _____  |   |                          |

| SAMPLING DATA: |                         |          |  |        |  |         |  |       |  |        |  |          |  |     |  |
|----------------|-------------------------|----------|--|--------|--|---------|--|-------|--|--------|--|----------|--|-----|--|
| Date:          | <u>3/11/2022</u>        | Color    |  | pH     |  | S.C.    |  | Temp. |  | DO     |  | Salinity |  | ORP |  |
| Time:          | <u>0824</u>             | (Visual) |  | (S.U.) |  | (mS/cm) |  | (°C)  |  | (mg/L) |  | (ppt)    |  | mV  |  |
| Depth:         | <u>1 ft below water</u> | clear    |  | 6.40   |  | 3.89    |  | 9.89  |  | 7.08   |  | 2.0      |  | 245 |  |
| Method:        | <u>Grab</u>             |          |  |        |  |         |  |       |  |        |  |          |  |     |  |

| SAMPLE COLLECTION INFORMATION: |              |                        |           |
|--------------------------------|--------------|------------------------|-----------|
| Analysis                       | Preservative | Container Requirements | Collected |
| VOCs + TICs                    | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|                                |              |                        |           |
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| OBSERVATIONS / NOTES:  | MAP: |
|--|------|
| <p>Water depth <span style="float: right;">3.1 Feet</span></p> |      |

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



# SURFACE WATER SAMPLE LOG SHEET

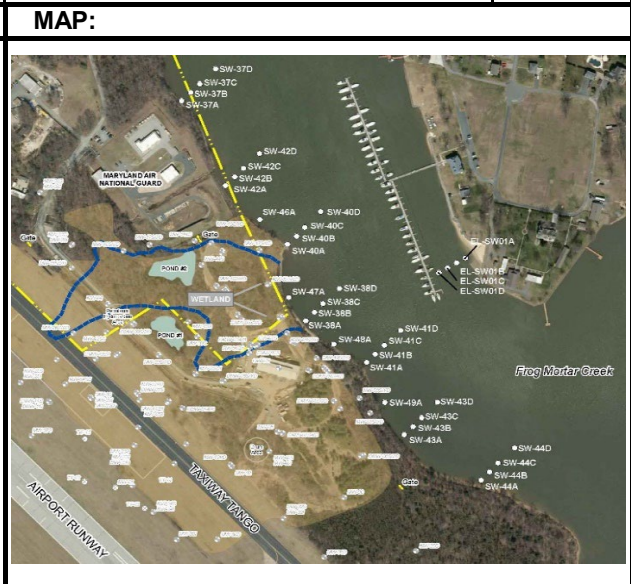
|  |  |   |                          |
|--|--|---|--------------------------|
| Project Site Name:                         | <u>Frog Mortar Creek, Martin State Airport</u> | Sample ID No.:  | <u>MSA-SW43C -031122</u> |
| Project No.:                               | <u>112IC09567</u>                              | Sample Location:                                      | <u>MSA-SW43C</u>         |
| <input type="checkbox"/> Stream            |  | Sampled By:   | <u>J. Mullis</u>         |
| <input type="checkbox"/> Spring            |  | C.O.C. No.:   | _____                    |
| <input type="checkbox"/> Pond              |  | Type of Sample:                                       |                          |
| <input type="checkbox"/> Lake              |  | <input checked="" type="checkbox"/> Low Concentration |                          |
| <input checked="" type="checkbox"/> Other: | <u>Tidal creek - freshwater</u>                | <input type="checkbox"/> High Concentration           |                          |
| <input type="checkbox"/> QA Sample Type:   | _____  |   |                          |

| SAMPLING DATA: |                         |          |  |        |  |         |  |       |  |        |
|----------------|-------------------------|----------|--|--------|--|---------|--|-------|--|--------|
| Date:          | <u>3/11/2022</u>        | Color    |  | pH     |  | S.C.    |  | Temp. |  | DO     |
| Time:          | <u>0827</u>             | (Visual) |  | (S.U.) |  | (mS/cm) |  | (°C)  |  | (mg/L) |
| Depth:         | <u>1 ft below water</u> | clear    |  | 6.75   |  | 3.91    |  | 10.04 |  | 6.97   |
| Method:        | <u>Grab</u>             |          |  |        |  |         |  |       |  | 2.0    |
|                |                         |          |  |        |  |         |  |       |  | 242    |

| SAMPLE COLLECTION INFORMATION: |              |                        |           |
|--------------------------------|--------------|------------------------|-----------|
| Analysis                       | Preservative | Container Requirements | Collected |
| VOCs + TICs                    | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|                                |              |                        |           |
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**OBSERVATIONS / NOTES:**

Water depth 5.2 Feet



**Circle if Applicable:**

|                                 |                   |
|---------------------------------|-------------------|
| <input type="checkbox"/> MS/MSD | Duplicate ID No.: |
|---------------------------------|-------------------|

**Signature(s):**

*J. Mullis*



# SURFACE WATER SAMPLE LOG SHEET

|  |  |   |                          |
|--|--|---|--------------------------|
| Project Site Name:   | <u>Frog Mortar Creek, Martin State Airport</u> | Sample ID No.:  | <u>MSA-SW43D -031122</u> |
| Project No.:   | <u>112IC09567</u>                              | Sample Location:  | <u>MSA-SW43D</u>         |
|  |  | Sampled By:   | <u>J. Mullis</u>         |
|  |  | C.O.C. No.:   | _____                    |
| <input type="checkbox"/> Stream<br><input type="checkbox"/> Spring<br><input type="checkbox"/> Pond<br><input type="checkbox"/> Lake<br><input checked="" type="checkbox"/> Other: <u>Tidal creek - freshwater</u><br><input type="checkbox"/> QA Sample Type: _____ |  | Type of Sample:<br><input checked="" type="checkbox"/> Low Concentration<br><input type="checkbox"/> High Concentration |                          |

| SAMPLING DATA: |                  |          |        |         |       |           |        |          |     |
|----------------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:          | 3/11/2022        | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:          | 0832             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:         | 1 ft below water | clear    | 6.97   | 3.91    | 10.09 | 7.98      | 6.66   | 2.0      | 237 |
| Method:        | Grab             |          |        |         |       |           |        |          |     |

| SAMPLE COLLECTION INFORMATION: |              |                        |           |
|--------------------------------|--------------|------------------------|-----------|
| Analysis                       | Preservative | Container Requirements | Collected |
| VOCs + TICs                    | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|                                |              |                        |           |
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| OBSERVATIONS / NOTES:                                   | MAP: |
|---|------|
| Water depth <span style="float: right;">5.4 Feet</span> |      |

|                              |                   |   |
|------------------------------|-------------------|---|
| <b>Circle if Applicable:</b> |                   | Signature(s):<br><div style="text-align: center; font-family: cursive;"> </div> |
| MS/MSD                       | Duplicate ID No.: |   |



# SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC09567

Sample ID No.: MSA-SW46A -031122  
 Sample Location: MSA-SW46A  
 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:   | 3/11/2022        | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 0957             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.78   | 3.88    | 10.30 | 9.87      | 6.45   | 2.0      | 217 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

### SAMPLE COLLECTION INFORMATION:

| Analysis | Preservative | Container Requirements | Collected |
|----------|--------------|------------------------|-----------|
| VOCs     | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|          |              |                        |           |
|          |              |                        |           |
|          |              |                        |           |
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### OBSERVATIONS / NOTES:

### MAP:

Water depth 1.7 Feet



### Circle if Applicable:

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

### Signature(s):





# SURFACE WATER SAMPLE LOG SHEET

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

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC09567  
 Stream  
 Spring  
 Pond  
 Lake  
 Other: Tidal creek - freshwater  
 QA Sample Type: \_\_\_\_\_

Sample ID No.: MSA-SW47A -031122  
 Sample Location: MSA-SW47A  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

Type of Sample:  
 Low Concentration  
 High Concentration

**SAMPLING DATA:**

|         |                  |          |        |         |       |           |        |          |     |
|---------|------------------|----------|--------|---------|-------|-----------|--------|----------|-----|
| Date:   | 3/11/2022        | Color    | pH     | S.C.    | Temp. | Turbidity | DO     | Salinity | ORP |
| Time:   | 0933             | (Visual) | (S.U.) | (mS/cm) | (°C)  | (NTU)     | (mg/L) | (ppt)    | mV  |
| Depth:  | 1 ft below water | clear    | 7.69   | 3.88    | 10.45 | 9.53      | 6.72   | 2.0      | 220 |
| Method: | Grab             |          |        |         |       |           |        |          |     |

**SAMPLE COLLECTION INFORMATION:**

| Analysis | Preservative | Container Requirements | Collected |
|----------|--------------|------------------------|-----------|
| VOCs     | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|          |              |                        |           |
|          |              |                        |           |
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**OBSERVATIONS / NOTES:**

Water depth 3 Feet

**MAP:**



**Circle if Applicable:**

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

**Signature(s):**



# SURFACE WATER SAMPLE LOG SHEET

|  |   |   |   |
|--|---|---|---|
| Project Site Name:                         | <u>Frog Mortar Creek, Martin State Airport</u>  | Sample ID No.:  | <u>MSA-SW48A -031122</u>                        |
| Project No.:                               | <u>112IC09567</u>                               | Sample Location:                                      | <u>MSA-SW48A</u>                                |
| <input type="checkbox"/> Stream            |   | Sampled By:   | <u>J. Mullis</u>                                |
| <input type="checkbox"/> Spring            |   | C.O.C. No.:   | <u>  </u> |
| <input type="checkbox"/> Pond              |   | Type of Sample:                                       |   |
| <input type="checkbox"/> Lake              |   | <input checked="" type="checkbox"/> Low Concentration | <input type="checkbox"/> High Concentration     |
| <input checked="" type="checkbox"/> Other: | <u>Tidal creek - freshwater</u>                 |   |   |
| <input type="checkbox"/> QA Sample Type:   | <u>  </u> |   |   |

| SAMPLING DATA: |                  |                   |              |                 |               |                    |              |                   |           |
|----------------|------------------|-------------------|--------------|-----------------|---------------|--------------------|--------------|-------------------|-----------|
| Date:          | 3/11/2022        | Color<br>(Visual) | pH<br>(S.U.) | S.C.<br>(mS/cm) | Temp.<br>(°C) | Turbidity<br>(NTU) | DO<br>(mg/L) | Salinity<br>(ppt) | ORP<br>mV |
| Time:          | 0905             | clear             | 7.62         | 3.87            | 10.24         | 9.81               | 6.45         | 2.0               | 221       |
| Depth:         | 1 ft below water |                   |              |                 |               |                    |              |                   |           |
| Method:        | Grab             |                   |              |                 |               |                    |              |                   |           |

| SAMPLE COLLECTION INFORMATION: |              |                        |           |
|--------------------------------|--------------|------------------------|-----------|
| Analysis                       | Preservative | Container Requirements | Collected |
| VOCs                           | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|                                |              |                        |           |
|                                |              |                        |           |
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| OBSERVATIONS / NOTES:  | MAP: |
|--|------|
| <p>Water depth <span style="float: right;">2.2 Feet</span></p> |      |

|                                 |                   |                              |
|---------------------------------|-------------------|------------------------------|
| <b>Circle if Applicable:</b>    |                   | <b>Signature(s):</b><br><br> |
| <input type="checkbox"/> MS/MSD | Duplicate ID No.: |                              |



# SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport  
 Project No.: 112IC09567

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

Sample ID No.: MSA-SW49A -031122  
 Sample Location: MSA-SW49A  
 Sampled By: J. Mullis  
 C.O.C. No.: \_\_\_\_\_

Type of Sample:  
 Low Concentration  
 High Concentration

### SAMPLING DATA:

|         |                         |                   |              |                 |               |                    |              |                   |            |
|---------|-------------------------|-------------------|--------------|-----------------|---------------|--------------------|--------------|-------------------|------------|
| Date:   | <u>3/11/2022</u>        | Color<br>(Visual) | pH<br>(S.U.) | S.C.<br>(mS/cm) | Temp.<br>(°C) | Turbidity<br>(NTU) | DO<br>(mg/L) | Salinity<br>(ppt) | ORP<br>mV  |
| Time:   | <u>0838</u>             |                   |              |                 |               |                    |              |                   |            |
| Depth:  | <u>1 ft below water</u> | <u>clear</u>      | <u>7.29</u>  | <u>3.89</u>     | <u>9.89</u>   | <u>10.48</u>       | <u>6.42</u>  | <u>2.0</u>        | <u>230</u> |
| Method: | <u>Grab</u>             |                   |              |                 |               |                    |              |                   |            |

### SAMPLE COLLECTION INFORMATION:

| Analysis | Preservative | Container Requirements | Collected |
|----------|--------------|------------------------|-----------|
| VOCs     | HCL pH<2     | 3 - 40 mL glass vials  | Yes       |
|          |              |                        |           |
|          |              |                        |           |
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### OBSERVATIONS / NOTES:

Water depth 1.5 Feet

### MAP:



Circle if Applicable:  
 MS/MSD Duplicate ID No.: \_\_\_\_\_

Signature(s):

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# APPENDIX B—DATA-VALIDATION AND FULL LABORATORY REPORTS



**TO:** S. BRENNER                      **DATE:** JUNE 14, 2022

**FROM:** MICHELLE L. WOEBER        **COPIES:** DV FILE

**SUBJECT:** ORGANIC DATA VALIDATION – VOC  
 LOCKHEED MARTIN CORPORATION (LMC) – MARTIN STATE AIRPORT (MSA)  
 FROG MORTAR CREEK SURFACE WATER SAMPLING  
 SDG 240-163634-1

**SAMPLES:** 30/Aqueous/VOC

|                  |                  |                  |
|------------------|------------------|------------------|
| MSA-SW37A-031122 | MSA-SW37B-031122 | MSA-SW37C-031122 |
| MSA-SW37D-031122 | MSA-SW38A-031122 | MSA-SW38B-031122 |
| MSA-SW38C-031122 | MSA-SW38D-031122 | MSA-SW40A-031122 |
| MSA-SW40B-031122 | MSA-SW40C-031122 | MSA-SW40D-031122 |
| MSA-SW41A-031122 | MSA-SW41B-031122 | MSA-SW41C-031122 |
| MSA-SW41D-031122 | MSA-SW42A-031122 | MSA-SW42B-031122 |
| MSA-SW42C-031122 | MSA-SW42D-031122 | MSA-SW43A-031122 |
| MSA-SW43B-031122 | MSA-SW43C-031122 | MSA-SW43D-031122 |
| MSA-SW46A-031122 | MSA-SW47A-031122 | MSA-SW48A-031122 |
| MSA-SW49A-031122 | MSA-SWEQB-031122 | TB-031122        |

Overview

The sample set for LMC-MSA Frog Mortar Creek, SDG 240-163634-1 consisted of twenty-eight (28) aqueous environmental samples, one (1) equipment blank, and one (1) trip blank. All thirty (30) aqueous samples were analyzed for Volatile Organic Compounds (VOC). No field duplicate sample pair was included in this SDG.

The samples were collected by Tetra Tech, Inc. on March 11, 2022 and analyzed by Eurofins TestAmerica, Inc. All analyses were conducted in accordance with SW-846 Method 8260C 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 method and field blanks, surrogate spike recoveries, laboratory control sample results, , internal standard 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. The non-detected results reported for 2-chloroethyl vinyl ether were qualified as rejected, (UR) in the acid preserved samples.

Minor

- The VOC continuing calibration performed on instrument A3UX19 on 03/23/2022 @ 09:49 had Percent Differences (%Ds) for dichlorodifluoromethane, tert-butyl alcohol, and vinyl acetate which exceeded the 20% quality control limit. Samples associated with analytical batch #240-520596 were affected. The non-detected results reported for these compounds in the affected samples were qualified as estimated, (UJ).

TO: S. BRENNER  
SDG: 240-163634-1

PAGE 2

- 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 results reported for chlorodifluoromethane were qualified as estimated, (UJ).
- A detected result in the equipment blank, MSA-SWEQB-031122, reported below the RL but above the Method Detection Limit (MDL) was qualified as estimated, (J).

#### Notes

Acetone was detected in the equipment blank below the RL. No action was taken because only non-detected results were reported for this compound in the associated samples.

Non-detected results were reported to the MDL. One TIC result in sample MSA-SW48A-031122 was qualified as presumptively present, (NJ).

#### Executive Summary

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

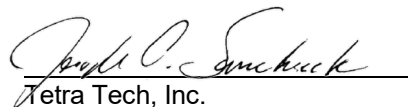
**Other Factors Affecting Data Quality:** 2-Chloroethyl vinyl ether results were rejected because the samples were acid preserved. Acetone was detected in the equipment blank. A result below the RL was estimated.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review" (November 2020). The text of this report has been formulated to address only those areas affecting data quality.



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Tetra Tech, Inc.  
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#### Attachments:

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

### Data Qualifier Definitions

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

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

**Appendix A**

Qualified Analytical Results



**Qualifier Codes:**

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

|   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW37A-031122 |      |        | MSA-SW37B-031122 |      |        | MSA-SW37C-031122 |      |        | MSA-SW37D-031122 |      |  |
|   | LAB_ID     | 240-163634-4     |      |        | 240-163634-5     |      |        | 240-163634-6     |      |        | 240-163634-7     |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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   | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| 1,1,1-TRICHLOROETHANE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| 1,1,2,2-TETRACHLOROETHANE   | 0.6        | U                |      | 0.6    | U                |      | 0.6    | U                |      | 0.6    | U                |      |  |
| 1,1,2-TRICHLOROTRIFLUOROETHANE  | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1,1-DICHLOROETHANE  | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| 1,1-DICHLOROETHENE  | 0.49       | U                |      | 0.49   | U                |      | 0.49   | U                |      | 0.49   | U                |      |  |
| 1,1-DICHLOROPROPENE   | 0.36       | U                |      | 0.36   | U                |      | 0.36   | U                |      | 0.36   | U                |      |  |
| 1,2,3-TRICHLOROBENZENE  | 0.54       | U                |      | 0.54   | U                |      | 0.54   | U                |      | 0.54   | U                |      |  |
| 1,2,3-TRICHLOROPROPANE  | 0.52       | U                |      | 0.52   | U                |      | 0.52   | U                |      | 0.52   | U                |      |  |
| 1,2,3-TRIMETHYLBENZENE  | 0.31       | U                |      | 0.31   | U                |      | 0.31   | U                |      | 0.31   | U                |      |  |
| 1,2,4-TRICHLOROBENZENE  | 0.77       | U                |      | 0.77   | U                |      | 0.77   | U                |      | 0.77   | U                |      |  |
| 1,2,4-TRIMETHYLBENZENE  | 0.52       | U                |      | 0.52   | U                |      | 0.52   | U                |      | 0.52   | U                |      |  |
| 1,2-DIBROMO-3-CHLOROPROPANE   | 0.91       | U                |      | 0.91   | U                |      | 0.91   | U                |      | 0.91   | U                |      |  |
| 1,2-DIBROMOETHANE   | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1,2-DICHLOROBENZENE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| 1,2-DICHLOROETHANE  | 0.21       | U                |      | 0.21   | U                |      | 0.21   | U                |      | 0.21   | U                |      |  |
| 1,2-DICHLOROPROPANE   | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| 1,3-DICHLOROBENZENE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| 1,3-DICHLOROPROPANE   | 0.21       | U                |      | 0.21   | U                |      | 0.21   | U                |      | 0.21   | U                |      |  |
| 1,4-DICHLOROBENZENE   | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1-HEXANOL, 2-ETHYL-   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
| 2,2-DICHLOROPROPANE   | 0.78       | U                |      | 0.78   | U                |      | 0.78   | U                |      | 0.78   | U                |      |  |
| 2-BUTANONE  | 1.2        | U                |      | 1.2    | U                |      | 1.2    | U                |      | 1.2    | U                |      |  |
| 2-CHLOROETHYL VINYL ETHER   | 1.5        | UR               | M    | 1.5    | UR               | M    | 1.5    | UR               | M    | 1.5    | UR               | M    |  |
| 2-CHLOROTOLUENE   | 0.57       | U                |      | 0.57   | U                |      | 0.57   | U                |      | 0.57   | U                |      |  |
| 2-HEXANONE  | 1.1        | U                |      | 1.1    | U                |      | 1.1    | U                |      | 1.1    | U                |      |  |
| 4-CHLOROTOLUENE   | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| 4-ISOPROPYLTOLUENE  | 0.56       | U                |      | 0.56   | U                |      | 0.56   | U                |      | 0.56   | U                |      |  |
| 4-METHYL-2-PENTANONE  | 0.99       | U                |      | 0.99   | U                |      | 0.99   | U                |      | 0.99   | U                |      |  |
| ACETONE   | 5.4        | U                |      | 5.4    | U                |      | 5.4    | U                |      | 5.4    | U                |      |  |
| BENZENE   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| BROMOBENZENE  | 0.5        | U                |      | 0.5    | U                |      | 0.5    | U                |      | 0.5    | U                |      |  |
| BROMOCHLOROMETHANE  | 0.54       | U                |      | 0.54   | U                |      | 0.54   | U                |      | 0.54   | 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                |      |  |

| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW38A-031122 |      |        | MSA-SW38B-031122 |      |        | MSA-SW38C-031122 |      |        | MSA-SW38D-031122 |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
|   | LAB_ID     | 240-163634-8     |      |        | 240-163634-9     |      |        | 240-163634-10    |      |        | 240-163634-11    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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   | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| 1,1,1-TRICHLOROETHANE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| 1,1,2,2-TETRACHLOROETHANE   | 0.6        | U                |      | 0.6    | U                |      | 0.6    | U                |      | 0.6    | U                |      |  |
| 1,1,2-TRICHLOROTRIFLUOROETHANE  | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1,1-DICHLOROETHANE  | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| 1,1-DICHLOROETHENE  | 0.49       | U                |      | 0.49   | U                |      | 0.49   | U                |      | 0.49   | U                |      |  |
| 1,1-DICHLOROPROPENE   | 0.36       | U                |      | 0.36   | U                |      | 0.36   | U                |      | 0.36   | U                |      |  |
| 1,2,3-TRICHLOROBENZENE  | 0.54       | U                |      | 0.54   | U                |      | 0.54   | U                |      | 0.54   | U                |      |  |
| 1,2,3-TRICHLOROPROPANE  | 0.52       | U                |      | 0.52   | U                |      | 0.52   | U                |      | 0.52   | U                |      |  |
| 1,2,3-TRIMETHYLBENZENE  | 0.31       | U                |      | 0.31   | U                |      | 0.31   | U                |      | 0.31   | U                |      |  |
| 1,2,4-TRICHLOROBENZENE  | 0.77       | U                |      | 0.77   | U                |      | 0.77   | U                |      | 0.77   | U                |      |  |
| 1,2,4-TRIMETHYLBENZENE  | 0.52       | U                |      | 0.52   | U                |      | 0.52   | U                |      | 0.52   | U                |      |  |
| 1,2-DIBROMO-3-CHLOROPROPANE   | 0.91       | U                |      | 0.91   | U                |      | 0.91   | U                |      | 0.91   | U                |      |  |
| 1,2-DIBROMOETHANE   | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1,2-DICHLOROBENZENE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| 1,2-DICHLOROETHANE  | 0.21       | U                |      | 0.21   | U                |      | 0.21   | U                |      | 0.21   | U                |      |  |
| 1,2-DICHLOROPROPANE   | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| 1,3-DICHLOROBENZENE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| 1,3-DICHLOROPROPANE   | 0.21       | U                |      | 0.21   | U                |      | 0.21   | U                |      | 0.21   | U                |      |  |
| 1,4-DICHLOROBENZENE   | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1-HEXANOL, 2-ETHYL-   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
| 2,2-DICHLOROPROPANE   | 0.78       | U                |      | 0.78   | U                |      | 0.78   | U                |      | 0.78   | U                |      |  |
| 2-BUTANONE  | 1.2        | U                |      | 1.2    | U                |      | 1.2    | U                |      | 1.2    | U                |      |  |
| 2-CHLOROETHYL VINYL ETHER   | 1.5        | UR               | M    | 1.5    | UR               | M    | 1.5    | UR               | M    | 1.5    | UR               | M    |  |
| 2-CHLOROTOLUENE   | 0.57       | U                |      | 0.57   | U                |      | 0.57   | U                |      | 0.57   | U                |      |  |
| 2-HEXANONE  | 1.1        | U                |      | 1.1    | U                |      | 1.1    | U                |      | 1.1    | U                |      |  |
| 4-CHLOROTOLUENE   | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| 4-ISOPROPYLTOLUENE  | 0.56       | U                |      | 0.56   | U                |      | 0.56   | U                |      | 0.56   | U                |      |  |
| 4-METHYL-2-PENTANONE  | 0.99       | U                |      | 0.99   | U                |      | 0.99   | U                |      | 0.99   | U                |      |  |
| ACETONE   | 5.4        | U                |      | 5.4    | U                |      | 5.4    | U                |      | 5.4    | U                |      |  |
| BENZENE   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| BROMOBENZENE  | 0.5        | U                |      | 0.5    | U                |      | 0.5    | U                |      | 0.5    | U                |      |  |
| BROMOCHLOROMETHANE  | 0.54       | U                |      | 0.54   | U                |      | 0.54   | U                |      | 0.54   | 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                |      |  |

|   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW40A-031122 |      |        | MSA-SW40B-031122 |      |        | MSA-SW40C-031122 |      |        | MSA-SW40D-031122 |      |  |
|   | LAB_ID     | 240-163634-12    |      |        | 240-163634-13    |      |        | 240-163634-14    |      |        | 240-163634-15    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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   | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| 1,1,1-TRICHLOROETHANE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| 1,1,2,2-TETRACHLOROETHANE   | 0.6        | U                |      | 0.6    | U                |      | 0.6    | U                |      | 0.6    | U                |      |  |
| 1,1,2-TRICHLOROTRIFLUOROETHANE  | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1,1-DICHLOROETHANE  | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| 1,1-DICHLOROETHENE  | 0.49       | U                |      | 0.49   | U                |      | 0.49   | U                |      | 0.49   | U                |      |  |
| 1,1-DICHLOROPROPENE   | 0.36       | U                |      | 0.36   | U                |      | 0.36   | U                |      | 0.36   | U                |      |  |
| 1,2,3-TRICHLOROBENZENE  | 0.54       | U                |      | 0.54   | U                |      | 0.54   | U                |      | 0.54   | U                |      |  |
| 1,2,3-TRICHLOROPROPANE  | 0.52       | U                |      | 0.52   | U                |      | 0.52   | U                |      | 0.52   | U                |      |  |
| 1,2,3-TRIMETHYLBENZENE  | 0.31       | U                |      | 0.31   | U                |      | 0.31   | U                |      | 0.31   | U                |      |  |
| 1,2,4-TRICHLOROBENZENE  | 0.77       | U                |      | 0.77   | U                |      | 0.77   | U                |      | 0.77   | U                |      |  |
| 1,2,4-TRIMETHYLBENZENE  | 0.52       | U                |      | 0.52   | U                |      | 0.52   | U                |      | 0.52   | U                |      |  |
| 1,2-DIBROMO-3-CHLOROPROPANE   | 0.91       | U                |      | 0.91   | U                |      | 0.91   | U                |      | 0.91   | U                |      |  |
| 1,2-DIBROMOETHANE   | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1,2-DICHLOROBENZENE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| 1,2-DICHLOROETHANE  | 0.21       | U                |      | 0.21   | U                |      | 0.21   | U                |      | 0.21   | U                |      |  |
| 1,2-DICHLOROPROPANE   | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| 1,3-DICHLOROBENZENE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| 1,3-DICHLOROPROPANE   | 0.21       | U                |      | 0.21   | U                |      | 0.21   | U                |      | 0.21   | U                |      |  |
| 1,4-DICHLOROBENZENE   | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1-HEXANOL, 2-ETHYL-   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
| 2,2-DICHLOROPROPANE   | 0.78       | U                |      | 0.78   | U                |      | 0.78   | U                |      | 0.78   | U                |      |  |
| 2-BUTANONE  | 1.2        | U                |      | 1.2    | U                |      | 1.2    | U                |      | 1.2    | U                |      |  |
| 2-CHLOROETHYL VINYL ETHER   | 1.5        | UR               | M    | 1.5    | UR               | M    | 1.5    | UR               | M    | 1.5    | UR               | M    |  |
| 2-CHLOROTOLUENE   | 0.57       | U                |      | 0.57   | U                |      | 0.57   | U                |      | 0.57   | U                |      |  |
| 2-HEXANONE  | 1.1        | U                |      | 1.1    | U                |      | 1.1    | U                |      | 1.1    | U                |      |  |
| 4-CHLOROTOLUENE   | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| 4-ISOPROPYLTOLUENE  | 0.56       | U                |      | 0.56   | U                |      | 0.56   | U                |      | 0.56   | U                |      |  |
| 4-METHYL-2-PENTANONE  | 0.99       | U                |      | 0.99   | U                |      | 0.99   | U                |      | 0.99   | U                |      |  |
| ACETONE   | 5.4        | U                |      | 5.4    | U                |      | 5.4    | U                |      | 5.4    | U                |      |  |
| BENZENE   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| BROMOBENZENE  | 0.5        | U                |      | 0.5    | U                |      | 0.5    | U                |      | 0.5    | U                |      |  |
| BROMOCHLOROMETHANE  | 0.54       | U                |      | 0.54   | U                |      | 0.54   | U                |      | 0.54   | 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                |      |  |

| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW41A-031122 |      |        | MSA-SW41B-031122 |      |        | MSA-SW41C-031122 |      |        | MSA-SW41D-031122 |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
|   | LAB_ID     | 240-163634-16    |      |        | 240-163634-17    |      |        | 240-163634-18    |      |        | 240-163634-19    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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   | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| 1,1,1-TRICHLOROETHANE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| 1,1,2,2-TETRACHLOROETHANE   | 0.6        | U                |      | 0.6    | U                |      | 0.6    | U                |      | 0.6    | U                |      |  |
| 1,1,2-TRICHLOROTRIFLUOROETHANE  | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1,1-DICHLOROETHANE  | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| 1,1-DICHLOROETHENE  | 0.49       | U                |      | 0.49   | U                |      | 0.49   | U                |      | 0.49   | U                |      |  |
| 1,1-DICHLOROPROPENE   | 0.36       | U                |      | 0.36   | U                |      | 0.36   | U                |      | 0.36   | U                |      |  |
| 1,2,3-TRICHLOROBENZENE  | 0.54       | U                |      | 0.54   | U                |      | 0.54   | U                |      | 0.54   | U                |      |  |
| 1,2,3-TRICHLOROPROPANE  | 0.52       | U                |      | 0.52   | U                |      | 0.52   | U                |      | 0.52   | U                |      |  |
| 1,2,3-TRIMETHYLBENZENE  | 0.31       | U                |      | 0.31   | U                |      | 0.31   | U                |      | 0.31   | U                |      |  |
| 1,2,4-TRICHLOROBENZENE  | 0.77       | U                |      | 0.77   | U                |      | 0.77   | U                |      | 0.77   | U                |      |  |
| 1,2,4-TRIMETHYLBENZENE  | 0.52       | U                |      | 0.52   | U                |      | 0.52   | U                |      | 0.52   | U                |      |  |
| 1,2-DIBROMO-3-CHLOROPROPANE   | 0.91       | U                |      | 0.91   | U                |      | 0.91   | U                |      | 0.91   | U                |      |  |
| 1,2-DIBROMOETHANE   | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1,2-DICHLOROBENZENE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| 1,2-DICHLOROETHANE  | 0.21       | U                |      | 0.21   | U                |      | 0.21   | U                |      | 0.21   | U                |      |  |
| 1,2-DICHLOROPROPANE   | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| 1,3-DICHLOROBENZENE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| 1,3-DICHLOROPROPANE   | 0.21       | U                |      | 0.21   | U                |      | 0.21   | U                |      | 0.21   | U                |      |  |
| 1,4-DICHLOROBENZENE   | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1-HEXANOL, 2-ETHYL-   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
| 2,2-DICHLOROPROPANE   | 0.78       | U                |      | 0.78   | U                |      | 0.78   | U                |      | 0.78   | U                |      |  |
| 2-BUTANONE  | 1.2        | U                |      | 1.2    | U                |      | 1.2    | U                |      | 1.2    | U                |      |  |
| 2-CHLOROETHYL VINYL ETHER   | 1.5        | UR               | M    | 1.5    | UR               | M    | 1.5    | UR               | M    | 1.5    | UR               | M    |  |
| 2-CHLOROTOLUENE   | 0.57       | U                |      | 0.57   | U                |      | 0.57   | U                |      | 0.57   | U                |      |  |
| 2-HEXANONE  | 1.1        | U                |      | 1.1    | U                |      | 1.1    | U                |      | 1.1    | U                |      |  |
| 4-CHLOROTOLUENE   | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| 4-ISOPROPYLTOLUENE  | 0.56       | U                |      | 0.56   | U                |      | 0.56   | U                |      | 0.56   | U                |      |  |
| 4-METHYL-2-PENTANONE  | 0.99       | U                |      | 0.99   | U                |      | 0.99   | U                |      | 0.99   | U                |      |  |
| ACETONE   | 5.4        | U                |      | 5.4    | U                |      | 5.4    | U                |      | 5.4    | U                |      |  |
| BENZENE   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| BROMOBENZENE  | 0.5        | U                |      | 0.5    | U                |      | 0.5    | U                |      | 0.5    | U                |      |  |
| BROMOCHLOROMETHANE  | 0.54       | U                |      | 0.54   | U                |      | 0.54   | U                |      | 0.54   | 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                |      |  |

| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW42A-031122 |      |        | MSA-SW42B-031122 |      |        | MSA-SW42C-031122 |      |        | MSA-SW42D-031122 |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
|   | LAB_ID     | 240-163634-20    |      |        | 240-163634-21    |      |        | 240-163634-22    |      |        | 240-163634-23    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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   | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| 1,1,1-TRICHLOROETHANE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| 1,1,2,2-TETRACHLOROETHANE   | 0.6        | U                |      | 0.6    | U                |      | 0.6    | U                |      | 0.6    | U                |      |  |
| 1,1,2-TRICHLOROTRIFLUOROETHANE  | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1,1-DICHLOROETHANE  | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| 1,1-DICHLOROETHENE  | 0.49       | U                |      | 0.49   | U                |      | 0.49   | U                |      | 0.49   | U                |      |  |
| 1,1-DICHLOROPROPENE   | 0.36       | U                |      | 0.36   | U                |      | 0.36   | U                |      | 0.36   | U                |      |  |
| 1,2,3-TRICHLOROBENZENE  | 0.54       | U                |      | 0.54   | U                |      | 0.54   | U                |      | 0.54   | U                |      |  |
| 1,2,3-TRICHLOROPROPANE  | 0.52       | U                |      | 0.52   | U                |      | 0.52   | U                |      | 0.52   | U                |      |  |
| 1,2,3-TRIMETHYLBENZENE  | 0.31       | U                |      | 0.31   | U                |      | 0.31   | U                |      | 0.31   | U                |      |  |
| 1,2,4-TRICHLOROBENZENE  | 0.77       | U                |      | 0.77   | U                |      | 0.77   | U                |      | 0.77   | U                |      |  |
| 1,2,4-TRIMETHYLBENZENE  | 0.52       | U                |      | 0.52   | U                |      | 0.52   | U                |      | 0.52   | U                |      |  |
| 1,2-DIBROMO-3-CHLOROPROPANE   | 0.91       | U                |      | 0.91   | U                |      | 0.91   | U                |      | 0.91   | U                |      |  |
| 1,2-DIBROMOETHANE   | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1,2-DICHLOROBENZENE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| 1,2-DICHLOROETHANE  | 0.21       | U                |      | 0.21   | U                |      | 0.21   | U                |      | 0.21   | U                |      |  |
| 1,2-DICHLOROPROPANE   | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| 1,3-DICHLOROBENZENE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| 1,3-DICHLOROPROPANE   | 0.21       | U                |      | 0.21   | U                |      | 0.21   | U                |      | 0.21   | U                |      |  |
| 1,4-DICHLOROBENZENE   | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1-HEXANOL, 2-ETHYL-   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
| 2,2-DICHLOROPROPANE   | 0.78       | U                |      | 0.78   | U                |      | 0.78   | U                |      | 0.78   | U                |      |  |
| 2-BUTANONE  | 1.2        | U                |      | 1.2    | U                |      | 1.2    | U                |      | 1.2    | U                |      |  |
| 2-CHLOROETHYL VINYL ETHER   | 1.5        | UR               | M    | 1.5    | UR               | M    | 1.5    | UR               | M    | 1.5    | UR               | M    |  |
| 2-CHLOROTOLUENE   | 0.57       | U                |      | 0.57   | U                |      | 0.57   | U                |      | 0.57   | U                |      |  |
| 2-HEXANONE  | 1.1        | U                |      | 1.1    | U                |      | 1.1    | U                |      | 1.1    | U                |      |  |
| 4-CHLOROTOLUENE   | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| 4-ISOPROPYLTOLUENE  | 0.56       | U                |      | 0.56   | U                |      | 0.56   | U                |      | 0.56   | U                |      |  |
| 4-METHYL-2-PENTANONE  | 0.99       | U                |      | 0.99   | U                |      | 0.99   | U                |      | 0.99   | U                |      |  |
| ACETONE   | 5.4        | U                |      | 5.4    | U                |      | 5.4    | U                |      | 5.4    | U                |      |  |
| BENZENE   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| BROMOBENZENE  | 0.5        | U                |      | 0.5    | U                |      | 0.5    | U                |      | 0.5    | U                |      |  |
| BROMOCHLOROMETHANE  | 0.54       | U                |      | 0.54   | U                |      | 0.54   | U                |      | 0.54   | 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                |      |  |

|   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW43A-031122 |      |        | MSA-SW43B-031122 |      |        | MSA-SW43C-031122 |      |        | MSA-SW43D-031122 |      |  |
|   | LAB_ID     | 240-163634-24    |      |        | 240-163634-25    |      |        | 240-163634-26    |      |        | 240-163634-27    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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   | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| 1,1,1-TRICHLOROETHANE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| 1,1,2,2-TETRACHLOROETHANE   | 0.6        | U                |      | 0.6    | U                |      | 0.6    | U                |      | 0.6    | U                |      |  |
| 1,1,2-TRICHLOROTRIFLUOROETHANE  | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1,1-DICHLOROETHANE  | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| 1,1-DICHLOROETHENE  | 0.49       | U                |      | 0.49   | U                |      | 0.49   | U                |      | 0.49   | U                |      |  |
| 1,1-DICHLOROPROPENE   | 0.36       | U                |      | 0.36   | U                |      | 0.36   | U                |      | 0.36   | U                |      |  |
| 1,2,3-TRICHLOROBENZENE  | 0.54       | U                |      | 0.54   | U                |      | 0.54   | U                |      | 0.54   | U                |      |  |
| 1,2,3-TRICHLOROPROPANE  | 0.52       | U                |      | 0.52   | U                |      | 0.52   | U                |      | 0.52   | U                |      |  |
| 1,2,3-TRIMETHYLBENZENE  | 0.31       | U                |      | 0.31   | U                |      | 0.31   | U                |      | 0.31   | U                |      |  |
| 1,2,4-TRICHLOROBENZENE  | 0.77       | U                |      | 0.77   | U                |      | 0.77   | U                |      | 0.77   | U                |      |  |
| 1,2,4-TRIMETHYLBENZENE  | 0.52       | U                |      | 0.52   | U                |      | 0.52   | U                |      | 0.52   | U                |      |  |
| 1,2-DIBROMO-3-CHLOROPROPANE   | 0.91       | U                |      | 0.91   | U                |      | 0.91   | U                |      | 0.91   | U                |      |  |
| 1,2-DIBROMOETHANE   | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1,2-DICHLOROBENZENE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| 1,2-DICHLOROETHANE  | 0.21       | U                |      | 0.21   | U                |      | 0.21   | U                |      | 0.21   | U                |      |  |
| 1,2-DICHLOROPROPANE   | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| 1,3-DICHLOROBENZENE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| 1,3-DICHLOROPROPANE   | 0.21       | U                |      | 0.21   | U                |      | 0.21   | U                |      | 0.21   | U                |      |  |
| 1,4-DICHLOROBENZENE   | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1-HEXANOL, 2-ETHYL-   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
| 2,2-DICHLOROPROPANE   | 0.78       | U                |      | 0.78   | U                |      | 0.78   | U                |      | 0.78   | U                |      |  |
| 2-BUTANONE  | 1.2        | U                |      | 1.2    | U                |      | 1.2    | U                |      | 1.2    | U                |      |  |
| 2-CHLOROETHYL VINYL ETHER   | 1.5        | UR               | M    | 1.5    | UR               | M    | 1.5    | UR               | M    | 1.5    | UR               | M    |  |
| 2-CHLOROTOLUENE   | 0.57       | U                |      | 0.57   | U                |      | 0.57   | U                |      | 0.57   | U                |      |  |
| 2-HEXANONE  | 1.1        | U                |      | 1.1    | U                |      | 1.1    | U                |      | 1.1    | U                |      |  |
| 4-CHLOROTOLUENE   | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| 4-ISOPROPYLTOLUENE  | 0.56       | U                |      | 0.56   | U                |      | 0.56   | U                |      | 0.56   | U                |      |  |
| 4-METHYL-2-PENTANONE  | 0.99       | U                |      | 0.99   | U                |      | 0.99   | U                |      | 0.99   | U                |      |  |
| ACETONE   | 5.4        | U                |      | 5.4    | U                |      | 5.4    | U                |      | 5.4    | U                |      |  |
| BENZENE   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| BROMOBENZENE  | 0.5        | U                |      | 0.5    | U                |      | 0.5    | U                |      | 0.5    | U                |      |  |
| BROMOCHLOROMETHANE  | 0.54       | U                |      | 0.54   | U                |      | 0.54   | U                |      | 0.54   | 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                |      |  |

| PROJ_NO: 09567<br>SDG: 240-163634-1<br>FRACTION: OV<br>MEDIA: WATER | NSAMPLE    | MSA-SW46A-031122 |      |        | MSA-SW47A-031122 |      |        | MSA-SW48A-031122 |      |        | MSA-SW49A-031122 |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
|   | LAB_ID     | 240-163634-29    |      |        | 240-163634-30    |      |        | 240-163634-31    |      |        | 240-163634-32    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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   | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| 1,1,1-TRICHLOROETHANE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| 1,1,2,2-TETRACHLOROETHANE   | 0.6        | U                |      | 0.6    | U                |      | 0.6    | U                |      | 0.6    | U                |      |  |
| 1,1,2-TRICHLOROTRIFLUOROETHANE                                      | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1,1-DICHLOROETHANE  | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| 1,1-DICHLOROETHENE  | 0.49       | U                |      | 0.49   | U                |      | 0.49   | U                |      | 0.49   | U                |      |  |
| 1,1-DICHLOROPROPENE   | 0.36       | U                |      | 0.36   | U                |      | 0.36   | U                |      | 0.36   | U                |      |  |
| 1,2,3-TRICHLOROBENZENE  | 0.54       | U                |      | 0.54   | U                |      | 0.54   | U                |      | 0.54   | U                |      |  |
| 1,2,3-TRICHLOROPROPANE  | 0.52       | U                |      | 0.52   | U                |      | 0.52   | U                |      | 0.52   | U                |      |  |
| 1,2,3-TRIMETHYLBENZENE  | 0.31       | U                |      | 0.31   | U                |      | 0.31   | U                |      | 0.31   | U                |      |  |
| 1,2,4-TRICHLOROBENZENE  | 0.77       | U                |      | 0.77   | U                |      | 0.77   | U                |      | 0.77   | U                |      |  |
| 1,2,4-TRIMETHYLBENZENE  | 0.52       | U                |      | 0.52   | U                |      | 0.52   | U                |      | 0.52   | U                |      |  |
| 1,2-DIBROMO-3-CHLOROPROPANE   | 0.91       | U                |      | 0.91   | U                |      | 0.91   | U                |      | 0.91   | U                |      |  |
| 1,2-DIBROMOETHANE   | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1,2-DICHLOROBENZENE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| 1,2-DICHLOROETHANE  | 0.21       | U                |      | 0.21   | U                |      | 0.21   | U                |      | 0.21   | U                |      |  |
| 1,2-DICHLOROPROPANE   | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| 1,3-DICHLOROBENZENE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| 1,3-DICHLOROPROPANE   | 0.21       | U                |      | 0.21   | U                |      | 0.21   | U                |      | 0.21   | U                |      |  |
| 1,4-DICHLOROBENZENE   | 0.41       | U                |      | 0.41   | U                |      | 0.41   | U                |      | 0.41   | U                |      |  |
| 1-HEXANOL, 2-ETHYL-   |            |                  |      |        |                  |      | 2.1    | NJ               | Z1   |        |                  |      |  |
| 2,2-DICHLOROPROPANE   | 0.78       | U                |      | 0.78   | U                |      | 0.78   | U                |      | 0.78   | U                |      |  |
| 2-BUTANONE  | 1.2        | U                |      | 1.2    | U                |      | 1.2    | U                |      | 1.2    | U                |      |  |
| 2-CHLOROETHYL VINYL ETHER   | 1.5        | UR               | M    | 1.5    | UR               | M    | 1.5    | UR               | M    | 1.5    | UR               | M    |  |
| 2-CHLOROTOLUENE   | 0.57       | U                |      | 0.57   | U                |      | 0.57   | U                |      | 0.57   | U                |      |  |
| 2-HEXANONE  | 1.1        | U                |      | 1.1    | U                |      | 1.1    | U                |      | 1.1    | U                |      |  |
| 4-CHLOROTOLUENE   | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| 4-ISOPROPYLTOLUENE  | 0.56       | U                |      | 0.56   | U                |      | 0.56   | U                |      | 0.56   | U                |      |  |
| 4-METHYL-2-PENTANONE  | 0.99       | U                |      | 0.99   | U                |      | 0.99   | U                |      | 0.99   | U                |      |  |
| ACETONE   | 5.4        | U                |      | 5.4    | U                |      | 5.4    | U                |      | 5.4    | U                |      |  |
| BENZENE   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| BROMOBENZENE  | 0.5        | U                |      | 0.5    | U                |      | 0.5    | U                |      | 0.5    | U                |      |  |
| BROMOCHLOROMETHANE  | 0.54       | U                |      | 0.54   | U                |      | 0.54   | U                |      | 0.54   | 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                |      |  |



|   |            |                  |      |        |               |      |  |
|---|------------|------------------|------|--------|---------------|------|--|
| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SWEQB-031122 |      |        | TB-031122     |      |  |
|   | LAB_ID     | 240-163634-33    |      |        | 240-163634-28 |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022     |      |  |
|   | QC_TYPE    | NM               |      |        | NM            |      |  |
|   | UNITS      | UG/L             |      |        | UG/L          |      |  |
|   | PCT_SOLIDS | 0.0              |      |        | 0.0           |      |  |
|   | DUP_OF     |                  |      |        |               |      |  |
| PARAMETER   | RESULT     | VQL              | QLCD | RESULT | VQL           | QLCD |  |
| 1,1,1,2-TETRACHLOROETHANE   | 0.43       | U                |      | 0.43   | U             |      |  |
| 1,1,1-TRICHLOROETHANE   | 0.48       | U                |      | 0.48   | U             |      |  |
| 1,1,2,2-TETRACHLOROETHANE   | 0.6        | U                |      | 0.6    | U             |      |  |
| 1,1,2-TRICHLOROTRIFLUOROETHANE  | 0.41       | U                |      | 0.41   | U             |      |  |
| 1,1-DICHLOROETHANE  | 0.47       | U                |      | 0.47   | U             |      |  |
| 1,1-DICHLOROETHENE  | 0.49       | U                |      | 0.49   | U             |      |  |
| 1,1-DICHLOROPROPENE   | 0.36       | U                |      | 0.36   | U             |      |  |
| 1,2,3-TRICHLOROBENZENE  | 0.54       | U                |      | 0.54   | U             |      |  |
| 1,2,3-TRICHLOROPROPANE  | 0.52       | U                |      | 0.52   | U             |      |  |
| 1,2,3-TRIMETHYLBENZENE  | 0.31       | U                |      | 0.31   | U             |      |  |
| 1,2,4-TRICHLOROBENZENE  | 0.77       | U                |      | 0.77   | U             |      |  |
| 1,2,4-TRIMETHYLBENZENE  | 0.52       | U                |      | 0.52   | U             |      |  |
| 1,2-DIBROMO-3-CHLOROPROPANE   | 0.91       | U                |      | 0.91   | U             |      |  |
| 1,2-DIBROMOETHANE   | 0.41       | U                |      | 0.41   | U             |      |  |
| 1,2-DICHLOROBENZENE   | 0.48       | U                |      | 0.48   | U             |      |  |
| 1,2-DICHLOROETHANE  | 0.21       | U                |      | 0.21   | U             |      |  |
| 1,2-DICHLOROPROPANE   | 0.47       | U                |      | 0.47   | U             |      |  |
| 1,3-DICHLOROBENZENE   | 0.45       | U                |      | 0.45   | U             |      |  |
| 1,3-DICHLOROPROPANE   | 0.21       | U                |      | 0.21   | U             |      |  |
| 1,4-DICHLOROBENZENE   | 0.41       | U                |      | 0.41   | U             |      |  |
| 1-HEXANOL, 2-ETHYL-   |            |                  |      |        |               |      |  |
| 2,2-DICHLOROPROPANE   | 0.78       | U                |      | 0.78   | U             |      |  |
| 2-BUTANONE  | 1.2        | U                |      | 1.2    | U             |      |  |
| 2-CHLOROETHYL VINYL ETHER   | 1.5        | UR               | M    | 1.5    | UR            | M    |  |
| 2-CHLOROTOLUENE   | 0.57       | U                |      | 0.57   | U             |      |  |
| 2-HEXANONE  | 1.1        | U                |      | 1.1    | U             |      |  |
| 4-CHLOROTOLUENE   | 0.43       | U                |      | 0.43   | U             |      |  |
| 4-ISOPROPYLTOLUENE  | 0.56       | U                |      | 0.56   | U             |      |  |
| 4-METHYL-2-PENTANONE  | 0.99       | U                |      | 0.99   | U             |      |  |
| ACETONE   | 7.5        | J                | P    | 5.4    | U             |      |  |
| BENZENE   | 0.42       | U                |      | 0.42   | U             |      |  |
| BROMOBENZENE  | 0.5        | U                |      | 0.5    | U             |      |  |
| BROMOCHLOROMETHANE  | 0.54       | U                |      | 0.54   | U             |      |  |
| BROMODICHLOROMETHANE  | 0.17       | U                |      | 0.17   | U             |      |  |
| BROMOFORM   | 0.76       | U                |      | 0.76   | U             |      |  |

| PROJ_NO: 09567<br>SDG: 240-163634-1<br>FRACTION: OV<br>MEDIA: WATER | NSAMPLE    | MSA-SW37A-031122 |      |        | MSA-SW37B-031122 |      |        | MSA-SW37C-031122 |      |        | MSA-SW37D-031122 |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
|   | LAB_ID     | 240-163634-4     |      |        | 240-163634-5     |      |        | 240-163634-6     |      |        | 240-163634-7     |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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 |  |
| BROMOMETHANE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| CARBON DISULFIDE  | 0.59       | U                |      | 0.59   | U                |      | 0.59   | U                |      | 0.59   | U                |      |  |
| CARBON TETRACHLORIDE  | 0.26       | U                |      | 0.26   | U                |      | 0.26   | U                |      | 0.26   | U                |      |  |
| CHLOROBENZENE   | 0.38       | U                |      | 0.38   | U                |      | 0.38   | U                |      | 0.38   | 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  | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| CHLOROMETHANE   | 0.63       | U                |      | 0.63   | U                |      | 0.63   | U                |      | 0.63   | U                |      |  |
| CIS-1,2-DICHLOROETHENE  | 0.46       | U                |      | 0.46   | U                |      | 0.46   | U                |      | 0.46   | U                |      |  |
| CIS-1,3-DICHLOROPROPENE   | 0.61       | U                |      | 0.61   | U                |      | 0.61   | U                |      | 0.61   | U                |      |  |
| DIBROMOMETHANE  | 0.4        | U                |      | 0.4    | U                |      | 0.4    | U                |      | 0.4    | U                |      |  |
| DICHLORODIFLUOROMETHANE   | 0.35       | U                |      | 0.35   | U                |      | 0.35   | UJ               | C    | 0.35   | UJ               | C    |  |
| DIISOPROPYL ETHER   | 0.17       | U                |      | 0.17   | U                |      | 0.17   | U                |      | 0.17   | U                |      |  |
| ETHYL TERT-BUTYL ETHER  | 0.4        | U                |      | 0.4    | U                |      | 0.4    | U                |      | 0.4    | U                |      |  |
| ETHYLBENZENE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| HEXACHLOROBUTADIENE   | 0.83       | U                |      | 0.83   | U                |      | 0.83   | U                |      | 0.83   | U                |      |  |
| ISOPROPYLBENZENE  | 0.49       | U                |      | 0.49   | U                |      | 0.49   | U                |      | 0.49   | U                |      |  |
| M+P-XYLENES   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| METHYL TERT-BUTYL ETHER   | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| METHYLENE CHLORIDE  | 2.6        | U                |      | 2.6    | U                |      | 2.6    | U                |      | 2.6    | U                |      |  |
| NAPHTHALENE   | 0.8        | U                |      | 0.8    | U                |      | 0.8    | U                |      | 0.8    | U                |      |  |
| N-BUTYLBENZENE  | 0.6        | U                |      | 0.6    | U                |      | 0.6    | U                |      | 0.6    | U                |      |  |
| N-PROPYLBENZENE   | 0.57       | U                |      | 0.57   | U                |      | 0.57   | U                |      | 0.57   | U                |      |  |
| O-XYLENE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| SEC-BUTYLBENZENE  | 0.53       | U                |      | 0.53   | U                |      | 0.53   | U                |      | 0.53   | U                |      |  |
| STYRENE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| TERT-AMYL METHYL ETHER  | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| TERT-BUTYLBENZENE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| TERTIARY-BUTYL ALCOHOL  | 7.2        | U                |      | 7.2    | U                |      | 7.2    | UJ               | C    | 7.2    | UJ               | C    |  |
| TETRACHLOROETHENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TOLUENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TOTAL XYLENES   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| TRANS-1,2-DICHLOROETHENE  | 0.51       | U                |      | 0.51   | U                |      | 0.51   | U                |      | 0.51   | U                |      |  |
| TRANS-1,3-DICHLOROPROPENE   | 0.67       | U                |      | 0.67   | U                |      | 0.67   | U                |      | 0.67   | U                |      |  |

| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW38A-031122 |      |        | MSA-SW38B-031122 |      |        | MSA-SW38C-031122 |      |        | MSA-SW38D-031122 |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
|   | LAB_ID     | 240-163634-8     |      |        | 240-163634-9     |      |        | 240-163634-10    |      |        | 240-163634-11    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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 |  |
| BROMOMETHANE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| CARBON DISULFIDE  | 0.59       | U                |      | 0.59   | U                |      | 0.59   | U                |      | 0.59   | U                |      |  |
| CARBON TETRACHLORIDE  | 0.26       | U                |      | 0.26   | U                |      | 0.26   | U                |      | 0.26   | U                |      |  |
| CHLOROBENZENE   | 0.38       | U                |      | 0.38   | U                |      | 0.38   | U                |      | 0.38   | 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  | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| CHLOROMETHANE   | 0.63       | U                |      | 0.63   | U                |      | 0.63   | U                |      | 0.63   | U                |      |  |
| CIS-1,2-DICHLOROETHENE  | 0.46       | U                |      | 0.46   | U                |      | 0.46   | U                |      | 0.46   | U                |      |  |
| CIS-1,3-DICHLOROPROPENE   | 0.61       | U                |      | 0.61   | U                |      | 0.61   | U                |      | 0.61   | U                |      |  |
| DIBROMOMETHANE  | 0.4        | U                |      | 0.4    | U                |      | 0.4    | U                |      | 0.4    | U                |      |  |
| DICHLORODIFLUOROMETHANE   | 0.35       | UJ               | C    | 0.35   | UJ               | C    | 0.35   | UJ               | C    | 0.35   | UJ               | C    |  |
| DIISOPROPYL ETHER   | 0.17       | U                |      | 0.17   | U                |      | 0.17   | U                |      | 0.17   | U                |      |  |
| ETHYL TERT-BUTYL ETHER  | 0.4        | U                |      | 0.4    | U                |      | 0.4    | U                |      | 0.4    | U                |      |  |
| ETHYLBENZENE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| HEXACHLOROBUTADIENE   | 0.83       | U                |      | 0.83   | U                |      | 0.83   | U                |      | 0.83   | U                |      |  |
| ISOPROPYLBENZENE  | 0.49       | U                |      | 0.49   | U                |      | 0.49   | U                |      | 0.49   | U                |      |  |
| M+P-XYLENES   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| METHYL TERT-BUTYL ETHER   | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| METHYLENE CHLORIDE  | 2.6        | U                |      | 2.6    | U                |      | 2.6    | U                |      | 2.6    | U                |      |  |
| NAPHTHALENE   | 0.8        | U                |      | 0.8    | U                |      | 0.8    | U                |      | 0.8    | U                |      |  |
| N-BUTYLBENZENE  | 0.6        | U                |      | 0.6    | U                |      | 0.6    | U                |      | 0.6    | U                |      |  |
| N-PROPYLBENZENE   | 0.57       | U                |      | 0.57   | U                |      | 0.57   | U                |      | 0.57   | U                |      |  |
| O-XYLENE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| SEC-BUTYLBENZENE  | 0.53       | U                |      | 0.53   | U                |      | 0.53   | U                |      | 0.53   | U                |      |  |
| STYRENE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| TERT-AMYL METHYL ETHER  | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| TERT-BUTYLBENZENE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| TERTIARY-BUTYL ALCOHOL  | 7.2        | UJ               | C    | 7.2    | UJ               | C    | 7.2    | UJ               | C    | 7.2    | UJ               | C    |  |
| TETRACHLOROETHENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TOLUENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TOTAL XYLENES   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| TRANS-1,2-DICHLOROETHENE  | 0.51       | U                |      | 0.51   | U                |      | 0.51   | U                |      | 0.51   | U                |      |  |
| TRANS-1,3-DICHLOROPROPENE   | 0.67       | U                |      | 0.67   | U                |      | 0.67   | U                |      | 0.67   | U                |      |  |

| PROJ_NO: 09567<br>SDG: 240-163634-1<br>FRACTION: OV<br>MEDIA: WATER | NSAMPLE    | MSA-SW40A-031122 |      |        | MSA-SW40B-031122 |      |        | MSA-SW40C-031122 |      |        | MSA-SW40D-031122 |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
|   | LAB_ID     | 240-163634-12    |      |        | 240-163634-13    |      |        | 240-163634-14    |      |        | 240-163634-15    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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 |  |
| BROMOMETHANE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| CARBON DISULFIDE  | 0.59       | U                |      | 0.59   | U                |      | 0.59   | U                |      | 0.59   | U                |      |  |
| CARBON TETRACHLORIDE  | 0.26       | U                |      | 0.26   | U                |      | 0.26   | U                |      | 0.26   | U                |      |  |
| CHLOROBENZENE   | 0.38       | U                |      | 0.38   | U                |      | 0.38   | U                |      | 0.38   | 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  | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| CHLOROMETHANE   | 0.63       | U                |      | 0.63   | U                |      | 0.63   | U                |      | 0.63   | U                |      |  |
| CIS-1,2-DICHLOROETHENE  | 0.46       | U                |      | 0.46   | U                |      | 0.46   | U                |      | 0.46   | U                |      |  |
| CIS-1,3-DICHLOROPROPENE   | 0.61       | U                |      | 0.61   | U                |      | 0.61   | U                |      | 0.61   | U                |      |  |
| DIBROMOMETHANE  | 0.4        | U                |      | 0.4    | U                |      | 0.4    | U                |      | 0.4    | U                |      |  |
| DICHLORODIFLUOROMETHANE   | 0.35       | UJ               | C    | 0.35   | UJ               | C    | 0.35   | UJ               | C    | 0.35   | UJ               | C    |  |
| DIISOPROPYL ETHER   | 0.17       | U                |      | 0.17   | U                |      | 0.17   | U                |      | 0.17   | U                |      |  |
| ETHYL TERT-BUTYL ETHER  | 0.4        | U                |      | 0.4    | U                |      | 0.4    | U                |      | 0.4    | U                |      |  |
| ETHYLBENZENE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| HEXACHLOROBUTADIENE   | 0.83       | U                |      | 0.83   | U                |      | 0.83   | U                |      | 0.83   | U                |      |  |
| ISOPROPYLBENZENE  | 0.49       | U                |      | 0.49   | U                |      | 0.49   | U                |      | 0.49   | U                |      |  |
| M+P-XYLENES   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| METHYL TERT-BUTYL ETHER   | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| METHYLENE CHLORIDE  | 2.6        | U                |      | 2.6    | U                |      | 2.6    | U                |      | 2.6    | U                |      |  |
| NAPHTHALENE   | 0.8        | U                |      | 0.8    | U                |      | 0.8    | U                |      | 0.8    | U                |      |  |
| N-BUTYLBENZENE  | 0.6        | U                |      | 0.6    | U                |      | 0.6    | U                |      | 0.6    | U                |      |  |
| N-PROPYLBENZENE   | 0.57       | U                |      | 0.57   | U                |      | 0.57   | U                |      | 0.57   | U                |      |  |
| O-XYLENE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| SEC-BUTYLBENZENE  | 0.53       | U                |      | 0.53   | U                |      | 0.53   | U                |      | 0.53   | U                |      |  |
| STYRENE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| TERT-AMYL METHYL ETHER  | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| TERT-BUTYLBENZENE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| TERTIARY-BUTYL ALCOHOL  | 7.2        | UJ               | C    | 7.2    | UJ               | C    | 7.2    | UJ               | C    | 7.2    | UJ               | C    |  |
| TETRACHLOROETHENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TOLUENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TOTAL XYLENES   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| TRANS-1,2-DICHLOROETHENE  | 0.51       | U                |      | 0.51   | U                |      | 0.51   | U                |      | 0.51   | U                |      |  |
| TRANS-1,3-DICHLOROPROPENE   | 0.67       | U                |      | 0.67   | U                |      | 0.67   | U                |      | 0.67   | U                |      |  |

| PROJ_NO: 09567<br>SDG: 240-163634-1<br>FRACTION: OV<br>MEDIA: WATER | NSAMPLE    | MSA-SW41A-031122 |      |        | MSA-SW41B-031122 |      |        | MSA-SW41C-031122 |      |        | MSA-SW41D-031122 |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
|   | LAB_ID     | 240-163634-16    |      |        | 240-163634-17    |      |        | 240-163634-18    |      |        | 240-163634-19    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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 |  |
| BROMOMETHANE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| CARBON DISULFIDE  | 0.59       | U                |      | 0.59   | U                |      | 0.59   | U                |      | 0.59   | U                |      |  |
| CARBON TETRACHLORIDE  | 0.26       | U                |      | 0.26   | U                |      | 0.26   | U                |      | 0.26   | U                |      |  |
| CHLOROBENZENE   | 0.38       | U                |      | 0.38   | U                |      | 0.38   | U                |      | 0.38   | 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  | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| CHLOROMETHANE   | 0.63       | U                |      | 0.63   | U                |      | 0.63   | U                |      | 0.63   | U                |      |  |
| CIS-1,2-DICHLOROETHENE  | 0.46       | U                |      | 0.46   | U                |      | 0.46   | U                |      | 0.46   | U                |      |  |
| CIS-1,3-DICHLOROPROPENE   | 0.61       | U                |      | 0.61   | U                |      | 0.61   | U                |      | 0.61   | U                |      |  |
| DIBROMOMETHANE  | 0.4        | U                |      | 0.4    | U                |      | 0.4    | U                |      | 0.4    | U                |      |  |
| DICHLORODIFLUOROMETHANE   | 0.35       | UJ               | C    | 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  | 0.4        | U                |      | 0.4    | U                |      | 0.4    | U                |      | 0.4    | U                |      |  |
| ETHYLBENZENE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| HEXACHLOROBUTADIENE   | 0.83       | U                |      | 0.83   | U                |      | 0.83   | U                |      | 0.83   | U                |      |  |
| ISOPROPYLBENZENE  | 0.49       | U                |      | 0.49   | U                |      | 0.49   | U                |      | 0.49   | U                |      |  |
| M+P-XYLENES   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| METHYL TERT-BUTYL ETHER   | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| METHYLENE CHLORIDE  | 2.6        | U                |      | 2.6    | U                |      | 2.6    | U                |      | 2.6    | U                |      |  |
| NAPHTHALENE   | 0.8        | U                |      | 0.8    | U                |      | 0.8    | U                |      | 0.8    | U                |      |  |
| N-BUTYLBENZENE  | 0.6        | U                |      | 0.6    | U                |      | 0.6    | U                |      | 0.6    | U                |      |  |
| N-PROPYLBENZENE   | 0.57       | U                |      | 0.57   | U                |      | 0.57   | U                |      | 0.57   | U                |      |  |
| O-XYLENE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| SEC-BUTYLBENZENE  | 0.53       | U                |      | 0.53   | U                |      | 0.53   | U                |      | 0.53   | U                |      |  |
| STYRENE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| TERT-AMYL METHYL ETHER  | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| TERT-BUTYLBENZENE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| TERTIARY-BUTYL ALCOHOL  | 7.2        | UJ               | C    | 7.2    | U                |      | 7.2    | U                |      | 7.2    | U                |      |  |
| TETRACHLOROETHENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TOLUENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TOTAL XYLENES   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| TRANS-1,2-DICHLOROETHENE  | 0.51       | U                |      | 0.51   | U                |      | 0.51   | U                |      | 0.51   | U                |      |  |
| TRANS-1,3-DICHLOROPROPENE   | 0.67       | U                |      | 0.67   | U                |      | 0.67   | U                |      | 0.67   | U                |      |  |

| PROJ_NO: 09567<br>SDG: 240-163634-1<br>FRACTION: OV<br>MEDIA: WATER | NSAMPLE    | MSA-SW42A-031122 |      |        | MSA-SW42B-031122 |      |        | MSA-SW42C-031122 |      |        | MSA-SW42D-031122 |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
|   | LAB_ID     | 240-163634-20    |      |        | 240-163634-21    |      |        | 240-163634-22    |      |        | 240-163634-23    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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 |  |
| BROMOMETHANE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| CARBON DISULFIDE  | 0.59       | U                |      | 0.59   | U                |      | 0.59   | U                |      | 0.59   | U                |      |  |
| CARBON TETRACHLORIDE  | 0.26       | U                |      | 0.26   | U                |      | 0.26   | U                |      | 0.26   | U                |      |  |
| CHLOROBENZENE   | 0.38       | U                |      | 0.38   | U                |      | 0.38   | U                |      | 0.38   | 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  | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| CHLOROMETHANE   | 0.63       | U                |      | 0.63   | U                |      | 0.63   | U                |      | 0.63   | U                |      |  |
| CIS-1,2-DICHLOROETHENE  | 0.46       | U                |      | 0.46   | U                |      | 0.46   | U                |      | 0.46   | U                |      |  |
| CIS-1,3-DICHLOROPROPENE   | 0.61       | U                |      | 0.61   | U                |      | 0.61   | U                |      | 0.61   | U                |      |  |
| DIBROMOMETHANE  | 0.4        | U                |      | 0.4    | U                |      | 0.4    | U                |      | 0.4    | 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  | 0.4        | U                |      | 0.4    | U                |      | 0.4    | U                |      | 0.4    | U                |      |  |
| ETHYLBENZENE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| HEXACHLOROBUTADIENE   | 0.83       | U                |      | 0.83   | U                |      | 0.83   | U                |      | 0.83   | U                |      |  |
| ISOPROPYLBENZENE  | 0.49       | U                |      | 0.49   | U                |      | 0.49   | U                |      | 0.49   | U                |      |  |
| M+P-XYLENES   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| METHYL TERT-BUTYL ETHER   | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| METHYLENE CHLORIDE  | 2.6        | U                |      | 2.6    | U                |      | 2.6    | U                |      | 2.6    | U                |      |  |
| NAPHTHALENE   | 0.8        | U                |      | 0.8    | U                |      | 0.8    | U                |      | 0.8    | U                |      |  |
| N-BUTYLBENZENE  | 0.6        | U                |      | 0.6    | U                |      | 0.6    | U                |      | 0.6    | U                |      |  |
| N-PROPYLBENZENE   | 0.57       | U                |      | 0.57   | U                |      | 0.57   | U                |      | 0.57   | U                |      |  |
| O-XYLENE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| SEC-BUTYLBENZENE  | 0.53       | U                |      | 0.53   | U                |      | 0.53   | U                |      | 0.53   | U                |      |  |
| STYRENE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| TERT-AMYL METHYL ETHER  | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| TERT-BUTYLBENZENE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| TERTIARY-BUTYL ALCOHOL  | 7.2        | U                |      | 7.2    | U                |      | 7.2    | U                |      | 7.2    | U                |      |  |
| TETRACHLOROETHENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TOLUENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TOTAL XYLENES   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| TRANS-1,2-DICHLOROETHENE  | 0.51       | U                |      | 0.51   | U                |      | 0.51   | U                |      | 0.51   | U                |      |  |
| TRANS-1,3-DICHLOROPROPENE   | 0.67       | U                |      | 0.67   | U                |      | 0.67   | U                |      | 0.67   | U                |      |  |

| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW43A-031122 |      |        | MSA-SW43B-031122 |      |        | MSA-SW43C-031122 |      |        | MSA-SW43D-031122 |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
|   | LAB_ID     | 240-163634-24    |      |        | 240-163634-25    |      |        | 240-163634-26    |      |        | 240-163634-27    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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 |  |
| BROMOMETHANE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| CARBON DISULFIDE  | 0.59       | U                |      | 0.59   | U                |      | 0.59   | U                |      | 0.59   | U                |      |  |
| CARBON TETRACHLORIDE  | 0.26       | U                |      | 0.26   | U                |      | 0.26   | U                |      | 0.26   | U                |      |  |
| CHLOROBENZENE   | 0.38       | U                |      | 0.38   | U                |      | 0.38   | U                |      | 0.38   | 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  | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| CHLOROMETHANE   | 0.63       | U                |      | 0.63   | U                |      | 0.63   | U                |      | 0.63   | U                |      |  |
| CIS-1,2-DICHLOROETHENE  | 0.46       | U                |      | 0.46   | U                |      | 0.46   | U                |      | 0.46   | U                |      |  |
| CIS-1,3-DICHLOROPROPENE   | 0.61       | U                |      | 0.61   | U                |      | 0.61   | U                |      | 0.61   | U                |      |  |
| DIBROMOMETHANE  | 0.4        | U                |      | 0.4    | U                |      | 0.4    | U                |      | 0.4    | 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  | 0.4        | U                |      | 0.4    | U                |      | 0.4    | U                |      | 0.4    | U                |      |  |
| ETHYLBENZENE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| HEXACHLOROBUTADIENE   | 0.83       | U                |      | 0.83   | U                |      | 0.83   | U                |      | 0.83   | U                |      |  |
| ISOPROPYLBENZENE  | 0.49       | U                |      | 0.49   | U                |      | 0.49   | U                |      | 0.49   | U                |      |  |
| M+P-XYLENES   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| METHYL TERT-BUTYL ETHER   | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| METHYLENE CHLORIDE  | 2.6        | U                |      | 2.6    | U                |      | 2.6    | U                |      | 2.6    | U                |      |  |
| NAPHTHALENE   | 0.8        | U                |      | 0.8    | U                |      | 0.8    | U                |      | 0.8    | U                |      |  |
| N-BUTYLBENZENE  | 0.6        | U                |      | 0.6    | U                |      | 0.6    | U                |      | 0.6    | U                |      |  |
| N-PROPYLBENZENE   | 0.57       | U                |      | 0.57   | U                |      | 0.57   | U                |      | 0.57   | U                |      |  |
| O-XYLENE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| SEC-BUTYLBENZENE  | 0.53       | U                |      | 0.53   | U                |      | 0.53   | U                |      | 0.53   | U                |      |  |
| STYRENE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| TERT-AMYL METHYL ETHER  | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| TERT-BUTYLBENZENE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| TERTIARY-BUTYL ALCOHOL  | 7.2        | U                |      | 7.2    | U                |      | 7.2    | U                |      | 7.2    | U                |      |  |
| TETRACHLOROETHENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TOLUENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TOTAL XYLENES   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| TRANS-1,2-DICHLOROETHENE  | 0.51       | U                |      | 0.51   | U                |      | 0.51   | U                |      | 0.51   | U                |      |  |
| TRANS-1,3-DICHLOROPROPENE   | 0.67       | U                |      | 0.67   | U                |      | 0.67   | U                |      | 0.67   | U                |      |  |

| PROJ_NO: 09567<br>SDG: 240-163634-1<br>FRACTION: OV<br>MEDIA: WATER | NSAMPLE    | MSA-SW46A-031122 |      |        | MSA-SW47A-031122 |      |        | MSA-SW48A-031122 |      |        | MSA-SW49A-031122 |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
|   | LAB_ID     | 240-163634-29    |      |        | 240-163634-30    |      |        | 240-163634-31    |      |        | 240-163634-32    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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 |  |
| BROMOMETHANE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| CARBON DISULFIDE  | 0.59       | U                |      | 0.59   | U                |      | 0.59   | U                |      | 0.59   | U                |      |  |
| CARBON TETRACHLORIDE  | 0.26       | U                |      | 0.26   | U                |      | 0.26   | U                |      | 0.26   | U                |      |  |
| CHLOROBENZENE   | 0.38       | U                |      | 0.38   | U                |      | 0.38   | U                |      | 0.38   | 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  | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| CHLOROMETHANE   | 0.63       | U                |      | 0.63   | U                |      | 0.63   | U                |      | 0.63   | U                |      |  |
| CIS-1,2-DICHLOROETHENE  | 0.46       | U                |      | 0.46   | U                |      | 0.46   | U                |      | 0.46   | U                |      |  |
| CIS-1,3-DICHLOROPROPENE   | 0.61       | U                |      | 0.61   | U                |      | 0.61   | U                |      | 0.61   | U                |      |  |
| DIBROMOMETHANE  | 0.4        | U                |      | 0.4    | U                |      | 0.4    | U                |      | 0.4    | 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  | 0.4        | U                |      | 0.4    | U                |      | 0.4    | U                |      | 0.4    | U                |      |  |
| ETHYLBENZENE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| HEXACHLOROBUTADIENE   | 0.83       | U                |      | 0.83   | U                |      | 0.83   | U                |      | 0.83   | U                |      |  |
| ISOPROPYLBENZENE  | 0.49       | U                |      | 0.49   | U                |      | 0.49   | U                |      | 0.49   | U                |      |  |
| M+P-XYLENES   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| METHYL TERT-BUTYL ETHER   | 0.47       | U                |      | 0.47   | U                |      | 0.47   | U                |      | 0.47   | U                |      |  |
| METHYLENE CHLORIDE  | 2.6        | U                |      | 2.6    | U                |      | 2.6    | U                |      | 2.6    | U                |      |  |
| NAPHTHALENE   | 0.8        | U                |      | 0.8    | U                |      | 0.8    | U                |      | 0.8    | U                |      |  |
| N-BUTYLBENZENE  | 0.6        | U                |      | 0.6    | U                |      | 0.6    | U                |      | 0.6    | U                |      |  |
| N-PROPYLBENZENE   | 0.57       | U                |      | 0.57   | U                |      | 0.57   | U                |      | 0.57   | U                |      |  |
| O-XYLENE  | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| SEC-BUTYLBENZENE  | 0.53       | U                |      | 0.53   | U                |      | 0.53   | U                |      | 0.53   | U                |      |  |
| STYRENE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| TERT-AMYL METHYL ETHER  | 0.43       | U                |      | 0.43   | U                |      | 0.43   | U                |      | 0.43   | U                |      |  |
| TERT-BUTYLBENZENE   | 0.48       | U                |      | 0.48   | U                |      | 0.48   | U                |      | 0.48   | U                |      |  |
| TERTIARY-BUTYL ALCOHOL  | 7.2        | U                |      | 7.2    | U                |      | 7.2    | U                |      | 7.2    | U                |      |  |
| TETRACHLOROETHENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TOLUENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TOTAL XYLENES   | 0.42       | U                |      | 0.42   | U                |      | 0.42   | U                |      | 0.42   | U                |      |  |
| TRANS-1,2-DICHLOROETHENE  | 0.51       | U                |      | 0.51   | U                |      | 0.51   | U                |      | 0.51   | U                |      |  |
| TRANS-1,3-DICHLOROPROPENE   | 0.67       | U                |      | 0.67   | U                |      | 0.67   | U                |      | 0.67   | U                |      |  |



|   |            |                  |      |        |               |      |  |
|---|------------|------------------|------|--------|---------------|------|--|
| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SWEQB-031122 |      |        | TB-031122     |      |  |
|   | LAB_ID     | 240-163634-33    |      |        | 240-163634-28 |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022     |      |  |
|   | QC_TYPE    | NM               |      |        | NM            |      |  |
|   | UNITS      | UG/L             |      |        | UG/L          |      |  |
|   | PCT_SOLIDS | 0.0              |      |        | 0.0           |      |  |
|   | DUP_OF     |                  |      |        |               |      |  |
| PARAMETER   | RESULT     | VQL              | QLCD | RESULT | VQL           | QLCD |  |
| BROMOMETHANE  | 0.42 U     |                  |      | 0.42 U |               |      |  |
| CARBON DISULFIDE  | 0.59 U     |                  |      | 0.59 U |               |      |  |
| CARBON TETRACHLORIDE  | 0.26 U     |                  |      | 0.26 U |               |      |  |
| CHLOROBENZENE   | 0.38 U     |                  |      | 0.38 U |               |      |  |
| CHLORODIBROMOMETHANE  | 0.39 U     |                  |      | 0.39 U |               |      |  |
| CHLORODIFLUOROMETHANE   | 1 UJ       | Q                |      | 1 UJ   | Q             |      |  |
| CHLOROETHANE  | 0.83 U     |                  |      | 0.83 U |               |      |  |
| CHLOROFORM  | 0.47 U     |                  |      | 0.47 U |               |      |  |
| CHLOROMETHANE   | 0.63 U     |                  |      | 0.63 U |               |      |  |
| CIS-1,2-DICHLOROETHENE  | 0.46 U     |                  |      | 0.46 U |               |      |  |
| CIS-1,3-DICHLOROPROPENE   | 0.61 U     |                  |      | 0.61 U |               |      |  |
| DIBROMOMETHANE  | 0.4 U      |                  |      | 0.4 U  |               |      |  |
| DICHLORODIFLUOROMETHANE   | 0.35 U     |                  |      | 0.35 U |               |      |  |
| DIISOPROPYL ETHER   | 0.17 U     |                  |      | 0.17 U |               |      |  |
| ETHYL TERT-BUTYL ETHER  | 0.4 U      |                  |      | 0.4 U  |               |      |  |
| ETHYLBENZENE  | 0.42 U     |                  |      | 0.42 U |               |      |  |
| HEXACHLOROBUTADIENE   | 0.83 U     |                  |      | 0.83 U |               |      |  |
| ISOPROPYLBENZENE  | 0.49 U     |                  |      | 0.49 U |               |      |  |
| M+P-XYLENES   | 0.42 U     |                  |      | 0.42 U |               |      |  |
| METHYL TERT-BUTYL ETHER   | 0.47 U     |                  |      | 0.47 U |               |      |  |
| METHYLENE CHLORIDE  | 2.6 U      |                  |      | 2.6 U  |               |      |  |
| NAPHTHALENE   | 0.8 U      |                  |      | 0.8 U  |               |      |  |
| N-BUTYLBENZENE  | 0.6 U      |                  |      | 0.6 U  |               |      |  |
| N-PROPYLBENZENE   | 0.57 U     |                  |      | 0.57 U |               |      |  |
| O-XYLENE  | 0.42 U     |                  |      | 0.42 U |               |      |  |
| SEC-BUTYLBENZENE  | 0.53 U     |                  |      | 0.53 U |               |      |  |
| STYRENE   | 0.45 U     |                  |      | 0.45 U |               |      |  |
| TERT-AMYL METHYL ETHER  | 0.43 U     |                  |      | 0.43 U |               |      |  |
| TERT-BUTYLBENZENE   | 0.48 U     |                  |      | 0.48 U |               |      |  |
| TERTIARY-BUTYL ALCOHOL  | 7.2 U      |                  |      | 7.2 U  |               |      |  |
| TETRACHLOROETHENE   | 0.44 U     |                  |      | 0.44 U |               |      |  |
| TOLUENE   | 0.44 U     |                  |      | 0.44 U |               |      |  |
| TOTAL XYLENES   | 0.42 U     |                  |      | 0.42 U |               |      |  |
| TRANS-1,2-DICHLOROETHENE  | 0.51 U     |                  |      | 0.51 U |               |      |  |
| TRANS-1,3-DICHLOROPROPENE   | 0.67 U     |                  |      | 0.67 U |               |      |  |

|   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW37A-031122 |      |        | MSA-SW37B-031122 |      |        | MSA-SW37C-031122 |      |        | MSA-SW37D-031122 |      |  |
|   | LAB_ID     | 240-163634-4     |      |        | 240-163634-5     |      |        | 240-163634-6     |      |        | 240-163634-7     |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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 |  |
| TRICHLOROETHENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TRICHLOROFUOROMETHANE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| VINYL ACETATE   | 0.61       | U                |      | 0.61   | U                |      | 0.61   | UJ               | C    | 0.61   | UJ               | C    |  |
| VINYL CHLORIDE  | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |

|   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW38A-031122 |      |        | MSA-SW38B-031122 |      |        | MSA-SW38C-031122 |      |        | MSA-SW38D-031122 |      |  |
|   | LAB_ID     | 240-163634-8     |      |        | 240-163634-9     |      |        | 240-163634-10    |      |        | 240-163634-11    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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 |  |
| TRICHLOROETHENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TRICHLOROFUOROMETHANE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| VINYL ACETATE   | 0.61       | UJ               | C    | 0.61   | UJ               | C    | 0.61   | UJ               | C    | 0.61   | UJ               | C    |  |
| VINYL CHLORIDE  | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |

|   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW40A-031122 |      |        | MSA-SW40B-031122 |      |        | MSA-SW40C-031122 |      |        | MSA-SW40D-031122 |      |  |
|   | LAB_ID     | 240-163634-12    |      |        | 240-163634-13    |      |        | 240-163634-14    |      |        | 240-163634-15    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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 |  |
| TRICHLOROETHENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TRICHLOROFUOROMETHANE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| VINYL ACETATE   | 0.61       | UJ               | C    | 0.61   | UJ               | C    | 0.61   | UJ               | C    | 0.61   | UJ               | C    |  |
| VINYL CHLORIDE  | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |

|   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW41A-031122 |      |        | MSA-SW41B-031122 |      |        | MSA-SW41C-031122 |      |        | MSA-SW41D-031122 |      |  |
|   | LAB_ID     | 240-163634-16    |      |        | 240-163634-17    |      |        | 240-163634-18    |      |        | 240-163634-19    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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 |  |
| TRICHLOROETHENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TRICHLOROFUOROMETHANE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| VINYL ACETATE   | 0.61       | UJ               | C    | 0.61   | U                |      | 0.61   | U                |      | 0.61   | U                |      |  |
| VINYL CHLORIDE  | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |

|   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW42A-031122 |      |        | MSA-SW42B-031122 |      |        | MSA-SW42C-031122 |      |        | MSA-SW42D-031122 |      |  |
|   | LAB_ID     | 240-163634-20    |      |        | 240-163634-21    |      |        | 240-163634-22    |      |        | 240-163634-23    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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 |  |
| TRICHLOROETHENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TRICHLOROFUOROMETHANE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| VINYL ACETATE   | 0.61       | U                |      | 0.61   | U                |      | 0.61   | U                |      | 0.61   | U                |      |  |
| VINYL CHLORIDE  | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |

|   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW43A-031122 |      |        | MSA-SW43B-031122 |      |        | MSA-SW43C-031122 |      |        | MSA-SW43D-031122 |      |  |
|   | LAB_ID     | 240-163634-24    |      |        | 240-163634-25    |      |        | 240-163634-26    |      |        | 240-163634-27    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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 |  |
| TRICHLOROETHENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TRICHLOROFUOROMETHANE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| VINYL ACETATE   | 0.61       | U                |      | 0.61   | U                |      | 0.61   | U                |      | 0.61   | U                |      |  |
| VINYL CHLORIDE  | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |

|   |            |                  |      |        |                  |      |        |                  |      |        |                  |      |  |
|---|------------|------------------|------|--------|------------------|------|--------|------------------|------|--------|------------------|------|--|
| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SW46A-031122 |      |        | MSA-SW47A-031122 |      |        | MSA-SW48A-031122 |      |        | MSA-SW49A-031122 |      |  |
|   | LAB_ID     | 240-163634-29    |      |        | 240-163634-30    |      |        | 240-163634-31    |      |        | 240-163634-32    |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |        | 3/11/2022        |      |  |
|   | 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 |  |
| TRICHLOROETHENE   | 0.44       | U                |      | 0.44   | U                |      | 0.44   | U                |      | 0.44   | U                |      |  |
| TRICHLOROFUOROMETHANE   | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |
| VINYL ACETATE   | 0.61       | U                |      | 0.61   | U                |      | 0.61   | U                |      | 0.61   | U                |      |  |
| VINYL CHLORIDE  | 0.45       | U                |      | 0.45   | U                |      | 0.45   | U                |      | 0.45   | U                |      |  |



|   |            |                  |      |        |               |      |  |
|---|------------|------------------|------|--------|---------------|------|--|
| <b>PROJ_NO: 09567</b><br><b>SDG: 240-163634-1</b><br><b>FRACTION: OV</b><br><b>MEDIA: WATER</b> | NSAMPLE    | MSA-SWEQB-031122 |      |        | TB-031122     |      |  |
|   | LAB_ID     | 240-163634-33    |      |        | 240-163634-28 |      |  |
|   | SAMP_DATE  | 3/11/2022        |      |        | 3/11/2022     |      |  |
|   | QC_TYPE    | NM               |      |        | NM            |      |  |
|   | UNITS      | UG/L             |      |        | UG/L          |      |  |
|   | PCT_SOLIDS | 0.0              |      |        | 0.0           |      |  |
|   | DUP_OF     |                  |      |        |               |      |  |
| PARAMETER   | RESULT     | VQL              | QLCD | RESULT | VQL           | QLCD |  |
| TRICHLOROETHENE   | 0.44       | U                |      | 0.44   | U             |      |  |
| TRICHLOROFLUOROMETHANE  | 0.45       | U                |      | 0.45   | U             |      |  |
| VINYL ACETATE   | 0.61       | U                |      | 0.61   | U             |      |  |
| VINYL CHLORIDE  | 0.45       | U                |      | 0.45   | U             |      |  |

**Appendix B**

Results as Reported by the Laboratory

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37A-031122 Lab Sample ID: 240-163634-4  
 Matrix: Water Lab File ID: UX000787.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:21  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:50  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37A-031122 Lab Sample ID: 240-163634-4  
 Matrix: Water Lab File ID: UX000787.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:21  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:50  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37A-031122 Lab Sample ID: 240-163634-4  
 Matrix: Water Lab File ID: UX000787.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:21  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:50  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 98   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37A-031122 Lab Sample ID: 240-163634-4  
 Matrix: Water Lab File ID: UX000787.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:21  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:50  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37A-031122 Lab Sample ID: 240-163634-4  
 Matrix: Water Lab File ID: UX000787.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:21  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:50  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37B-031122 Lab Sample ID: 240-163634-5  
 Matrix: Water Lab File ID: UX000788.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37B-031122 Lab Sample ID: 240-163634-5  
 Matrix: Water Lab File ID: UX000788.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37B-031122 Lab Sample ID: 240-163634-5  
 Matrix: Water Lab File ID: UX000788.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37B-031122 Lab Sample ID: 240-163634-5  
 Matrix: Water Lab File ID: UX000788.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37B-031122 Lab Sample ID: 240-163634-5  
 Matrix: Water Lab File ID: UX000788.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37C-031122 Lab Sample ID: 240-163634-6  
 Matrix: Water Lab File ID: UX000764.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:28  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:22  
 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.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37C-031122 Lab Sample ID: 240-163634-6  
 Matrix: Water Lab File ID: UX000764.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:28  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:22  
 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.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37C-031122 Lab Sample ID: 240-163634-6  
 Matrix: Water Lab File ID: UX000764.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:28  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:22  
 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.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 102  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

|   |   |
|---|---|
| Lab Name: <u>Eurofins Canton</u>          | Job No.: <u>240-163634-1</u>                  |
| SDG No.: <u>MSA Frog Mortar Creek</u>     |   |
| Client Sample ID: <u>MSA-SW37C-031122</u> | Lab Sample ID: <u>240-163634-6</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UX000764.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>03/11/2022 10:28</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>03/23/2022 16:22</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>520596</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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37C-031122 Lab Sample ID: 240-163634-6  
 Matrix: Water Lab File ID: UX000764.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:28  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:22  
 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.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37D-031122 Lab Sample ID: 240-163634-7  
 Matrix: Water Lab File ID: UX000765.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:34  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37D-031122 Lab Sample ID: 240-163634-7  
 Matrix: Water Lab File ID: UX000765.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:34  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37D-031122 Lab Sample ID: 240-163634-7  
 Matrix: Water Lab File ID: UX000765.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:34  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37D-031122 Lab Sample ID: 240-163634-7  
 Matrix: Water Lab File ID: UX000765.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:34  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37D-031122 Lab Sample ID: 240-163634-7  
 Matrix: Water Lab File ID: UX000765.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:34  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT   | RESULT | Q | MATCH QUALITY |
|---------|---------------------------|------|--------|---|---------------|
| 75-45-6 | Chlorodifluoromethane TIC | 2.44 | 1.0    | U | 1%            |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38A-031122 Lab Sample ID: 240-163634-8  
 Matrix: Water Lab File ID: UX000766.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38A-031122 Lab Sample ID: 240-163634-8  
 Matrix: Water Lab File ID: UX000766.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38A-031122 Lab Sample ID: 240-163634-8  
 Matrix: Water Lab File ID: UX000766.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:11  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 104  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38A-031122 Lab Sample ID: 240-163634-8  
 Matrix: Water Lab File ID: UX000766.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38A-031122 Lab Sample ID: 240-163634-8  
 Matrix: Water Lab File ID: UX000766.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38B-031122 Lab Sample ID: 240-163634-9  
 Matrix: Water Lab File ID: UX000767.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:22  
 Sample wt/vol: 5(mL) Date Analyzed: 03/23/2022 17:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38B-031122 Lab Sample ID: 240-163634-9  
 Matrix: Water Lab File ID: UX000767.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:22  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38B-031122 Lab Sample ID: 240-163634-9  
 Matrix: Water Lab File ID: UX000767.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:22  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38B-031122 Lab Sample ID: 240-163634-9  
 Matrix: Water Lab File ID: UX000767.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:22  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38B-031122 Lab Sample ID: 240-163634-9  
 Matrix: Water Lab File ID: UX000767.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:22  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38C-031122 Lab Sample ID: 240-163634-10  
 Matrix: Water Lab File ID: UX000768.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:25  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38C-031122 Lab Sample ID: 240-163634-10  
 Matrix: Water Lab File ID: UX000768.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:25  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38C-031122 Lab Sample ID: 240-163634-10  
 Matrix: Water Lab File ID: UX000768.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:25  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:59  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38C-031122 Lab Sample ID: 240-163634-10  
 Matrix: Water Lab File ID: UX000768.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:25  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38C-031122 Lab Sample ID: 240-163634-10  
 Matrix: Water Lab File ID: UX000768.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:25  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38D-031122 Lab Sample ID: 240-163634-11  
 Matrix: Water Lab File ID: UX000769.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:24  
 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.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38D-031122 Lab Sample ID: 240-163634-11  
 Matrix: Water Lab File ID: UX000769.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:24  
 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.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38D-031122 Lab Sample ID: 240-163634-11  
 Matrix: Water Lab File ID: UX000769.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:24  
 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.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 102  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |



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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38D-031122 Lab Sample ID: 240-163634-11  
 Matrix: Water Lab File ID: UX000769.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:24  
 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.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38D-031122 Lab Sample ID: 240-163634-11  
 Matrix: Water Lab File ID: UX000769.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:24  
 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.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40A-031122 Lab Sample ID: 240-163634-12  
 Matrix: Water Lab File ID: UX000770.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:39  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:48  
 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.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40A-031122 Lab Sample ID: 240-163634-12  
 Matrix: Water Lab File ID: UX000770.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:39  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:48  
 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.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40A-031122 Lab Sample ID: 240-163634-12  
 Matrix: Water Lab File ID: UX000770.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:39  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:48  
 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.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 102  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 97   |   | 78-122 |

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

|   |   |
|---|---|
| Lab Name: <u>Eurofins Canton</u>          | Job No.: <u>240-163634-1</u>                  |
| SDG No.: <u>MSA Frog Mortar Creek</u>     |   |
| Client Sample ID: <u>MSA-SW40A-031122</u> | Lab Sample ID: <u>240-163634-12</u>           |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UX000770.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>03/11/2022 09:39</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>03/23/2022 18:48</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>520596</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: <u>Eurofins Canton</u>          | Job No.: <u>240-163634-1</u>                  |
| SDG No.: <u>MSA Frog Mortar Creek</u>     |   |
| Client Sample ID: <u>MSA-SW40A-031122</u> | Lab Sample ID: <u>240-163634-12</u>           |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UX000770.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>03/11/2022 09:39</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>03/23/2022 18:48</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>520596</u>         | Units: <u>ug/L</u>                            |

| 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40B-031122 Lab Sample ID: 240-163634-13  
 Matrix: Water Lab File ID: UX000771.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:43  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40B-031122 Lab Sample ID: 240-163634-13  
 Matrix: Water Lab File ID: UX000771.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:43  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40B-031122 Lab Sample ID: 240-163634-13  
 Matrix: Water Lab File ID: UX000771.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:43  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 102  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40B-031122 Lab Sample ID: 240-163634-13  
 Matrix: Water Lab File ID: UX000771.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:43  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40B-031122 Lab Sample ID: 240-163634-13  
 Matrix: Water Lab File ID: UX000771.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:43  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT   | RESULT | Q | MATCH QUALITY |
|---------|---------------------------|------|--------|---|---------------|
| 75-45-6 | Chlorodifluoromethane TIC | 2.45 | 1.0    | U | 1%            |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40C-031122 Lab Sample ID: 240-163634-14  
 Matrix: Water Lab File ID: UX000772.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:47  
 Sample wt/vol: 5(mL) Date Analyzed: 03/23/2022 19:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40C-031122 Lab Sample ID: 240-163634-14  
 Matrix: Water Lab File ID: UX000772.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:47  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40C-031122 Lab Sample ID: 240-163634-14  
 Matrix: Water Lab File ID: UX000772.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:47  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:37  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40C-031122 Lab Sample ID: 240-163634-14  
 Matrix: Water Lab File ID: UX000772.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:47  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40C-031122 Lab Sample ID: 240-163634-14  
 Matrix: Water Lab File ID: UX000772.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:47  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40D-031122 Lab Sample ID: 240-163634-15  
 Matrix: Water Lab File ID: UX000773.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:51  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 20:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40D-031122 Lab Sample ID: 240-163634-15  
 Matrix: Water Lab File ID: UX000773.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:51  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 20:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40D-031122 Lab Sample ID: 240-163634-15  
 Matrix: Water Lab File ID: UX000773.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:51  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 20:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 102  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 102  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40D-031122 Lab Sample ID: 240-163634-15  
 Matrix: Water Lab File ID: UX000773.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:51  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 20:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40D-031122 Lab Sample ID: 240-163634-15  
 Matrix: Water Lab File ID: UX000773.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:51  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 20:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41A-031122 Lab Sample ID: 240-163634-16  
 Matrix: Water Lab File ID: UX000774.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:46  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 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.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41A-031122 Lab Sample ID: 240-163634-16  
 Matrix: Water Lab File ID: UX000774.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:46  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 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.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41A-031122 Lab Sample ID: 240-163634-16  
 Matrix: Water Lab File ID: UX000774.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:46  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 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.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41A-031122 Lab Sample ID: 240-163634-16  
 Matrix: Water Lab File ID: UX000774.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:46  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 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.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41A-031122 Lab Sample ID: 240-163634-16  
 Matrix: Water Lab File ID: UX000774.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:46  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 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.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41B-031122 Lab Sample ID: 240-163634-17  
 Matrix: Water Lab File ID: UX000789.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:48  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:39  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41B-031122 Lab Sample ID: 240-163634-17  
 Matrix: Water Lab File ID: UX000789.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:48  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:39  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41B-031122 Lab Sample ID: 240-163634-17  
 Matrix: Water Lab File ID: UX000789.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:48  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:39  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 97   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41B-031122 Lab Sample ID: 240-163634-17  
 Matrix: Water Lab File ID: UX000789.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:48  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:39  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41B-031122 Lab Sample ID: 240-163634-17  
 Matrix: Water Lab File ID: UX000789.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:48  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:39  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41C-031122 Lab Sample ID: 240-163634-18  
 Matrix: Water Lab File ID: UX000790.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:54  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:04  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41C-031122 Lab Sample ID: 240-163634-18  
 Matrix: Water Lab File ID: UX000790.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:54  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:04  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41C-031122 Lab Sample ID: 240-163634-18  
 Matrix: Water Lab File ID: UX000790.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:54  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:04  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41C-031122 Lab Sample ID: 240-163634-18  
 Matrix: Water Lab File ID: UX000790.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:54  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:04  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41C-031122 Lab Sample ID: 240-163634-18  
 Matrix: Water Lab File ID: UX000790.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:54  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:04  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41D-031122 Lab Sample ID: 240-163634-19  
 Matrix: Water Lab File ID: UX000791.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:59  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41D-031122 Lab Sample ID: 240-163634-19  
 Matrix: Water Lab File ID: UX000791.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:59  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41D-031122 Lab Sample ID: 240-163634-19  
 Matrix: Water Lab File ID: UX000791.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:59  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |



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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41D-031122 Lab Sample ID: 240-163634-19  
 Matrix: Water Lab File ID: UX000791.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:59  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41D-031122 Lab Sample ID: 240-163634-19  
 Matrix: Water Lab File ID: UX000791.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:59  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42A-031122 Lab Sample ID: 240-163634-20  
 Matrix: Water Lab File ID: UX000792.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:01  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:53  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42A-031122 Lab Sample ID: 240-163634-20  
 Matrix: Water Lab File ID: UX000792.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:01  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:53  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42A-031122 Lab Sample ID: 240-163634-20  
 Matrix: Water Lab File ID: UX000792.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:01  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:53  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 100  |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42A-031122 Lab Sample ID: 240-163634-20  
 Matrix: Water Lab File ID: UX000792.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:01  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:53  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42A-031122 Lab Sample ID: 240-163634-20  
 Matrix: Water Lab File ID: UX000792.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:01  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:53  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42B-031122 Lab Sample ID: 240-163634-21  
 Matrix: Water Lab File ID: UX000793.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:06  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:17  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42B-031122 Lab Sample ID: 240-163634-21  
 Matrix: Water Lab File ID: UX000793.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:06  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:17  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42B-031122 Lab Sample ID: 240-163634-21  
 Matrix: Water Lab File ID: UX000793.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:06  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:17  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 97   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42B-031122 Lab Sample ID: 240-163634-21  
 Matrix: Water Lab File ID: UX000793.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:06  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:17  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42B-031122 Lab Sample ID: 240-163634-21  
 Matrix: Water Lab File ID: UX000793.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:06  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:17  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42C-031122 Lab Sample ID: 240-163634-22  
 Matrix: Water Lab File ID: UX000794.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:09  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42C-031122 Lab Sample ID: 240-163634-22  
 Matrix: Water Lab File ID: UX000794.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:09  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42C-031122 Lab Sample ID: 240-163634-22  
 Matrix: Water Lab File ID: UX000794.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:09  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:42  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101  |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42C-031122 Lab Sample ID: 240-163634-22  
 Matrix: Water Lab File ID: UX000794.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:09  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42C-031122 Lab Sample ID: 240-163634-22  
 Matrix: Water Lab File ID: UX000794.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:09  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42D-031122 Lab Sample ID: 240-163634-23  
 Matrix: Water Lab File ID: UX000795.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:14  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:06  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42D-031122 Lab Sample ID: 240-163634-23  
 Matrix: Water Lab File ID: UX000795.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:14  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:06  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42D-031122 Lab Sample ID: 240-163634-23  
 Matrix: Water Lab File ID: UX000795.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:14  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:06  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42D-031122 Lab Sample ID: 240-163634-23  
 Matrix: Water Lab File ID: UX000795.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:14  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:06  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42D-031122 Lab Sample ID: 240-163634-23  
 Matrix: Water Lab File ID: UX000795.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:14  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:06  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43A-031122 Lab Sample ID: 240-163634-24  
 Matrix: Water Lab File ID: UX000796.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:18  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:31  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43A-031122 Lab Sample ID: 240-163634-24  
 Matrix: Water Lab File ID: UX000796.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:18  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:31  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43A-031122 Lab Sample ID: 240-163634-24  
 Matrix: Water Lab File ID: UX000796.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:18  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:31  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 102  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43A-031122 Lab Sample ID: 240-163634-24  
 Matrix: Water Lab File ID: UX000796.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:18  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:31  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43A-031122 Lab Sample ID: 240-163634-24  
 Matrix: Water Lab File ID: UX000796.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:18  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:31  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT   | RESULT | Q | MATCH QUALITY |
|---------|---------------------------|------|--------|---|---------------|
| 75-45-6 | Chlorodifluoromethane TIC | 2.54 | 1.0    | U | 1%            |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43B-031122 Lab Sample ID: 240-163634-25  
 Matrix: Water Lab File ID: UX000797.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:55  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43B-031122 Lab Sample ID: 240-163634-25  
 Matrix: Water Lab File ID: UX000797.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:55  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43B-031122 Lab Sample ID: 240-163634-25  
 Matrix: Water Lab File ID: UX000797.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:55  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43B-031122 Lab Sample ID: 240-163634-25  
 Matrix: Water Lab File ID: UX000797.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:55  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43B-031122 Lab Sample ID: 240-163634-25  
 Matrix: Water Lab File ID: UX000797.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:55  
 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.: 520730 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT   | RESULT | Q | MATCH QUALITY |
|---------|---------------------------|------|--------|---|---------------|
| 75-45-6 | Chlorodifluoromethane TIC | 2.42 | 1.0    | U | 8%            |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43C-031122 Lab Sample ID: 240-163634-26  
 Matrix: Water Lab File ID: UX000798.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 18:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43C-031122 Lab Sample ID: 240-163634-26  
 Matrix: Water Lab File ID: UX000798.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 18:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43C-031122 Lab Sample ID: 240-163634-26  
 Matrix: Water Lab File ID: UX000798.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 18:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43C-031122 Lab Sample ID: 240-163634-26  
 Matrix: Water Lab File ID: UX000798.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 18:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43C-031122 Lab Sample ID: 240-163634-26  
 Matrix: Water Lab File ID: UX000798.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 18:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43D-031122 Lab Sample ID: 240-163634-27  
 Matrix: Water Lab File ID: UX000799.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:32  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43D-031122 Lab Sample ID: 240-163634-27  
 Matrix: Water Lab File ID: UX000799.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:32  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43D-031122 Lab Sample ID: 240-163634-27  
 Matrix: Water Lab File ID: UX000799.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:32  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 102  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 102  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 100  |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 78-122 |



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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43D-031122 Lab Sample ID: 240-163634-27  
 Matrix: Water Lab File ID: UX000799.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:32  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43D-031122 Lab Sample ID: 240-163634-27  
 Matrix: Water Lab File ID: UX000799.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:32  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: TB-031122 Lab Sample ID: 240-163634-28  
 Matrix: Water Lab File ID: UX000800.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 00:00  
 Sample wt/vol: 5(mL) Date Analyzed: 03/24/2022 19:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: TB-031122 Lab Sample ID: 240-163634-28  
 Matrix: Water Lab File ID: UX000800.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: TB-031122 Lab Sample ID: 240-163634-28  
 Matrix: Water Lab File ID: UX000800.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:09  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 98   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: TB-031122 Lab Sample ID: 240-163634-28  
 Matrix: Water Lab File ID: UX000800.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: TB-031122 Lab Sample ID: 240-163634-28  
 Matrix: Water Lab File ID: UX000800.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW46A-031122 Lab Sample ID: 240-163634-29  
 Matrix: Water Lab File ID: UX000801.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:57  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:33  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW46A-031122 Lab Sample ID: 240-163634-29  
 Matrix: Water Lab File ID: UX000801.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:57  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:33  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW46A-031122 Lab Sample ID: 240-163634-29  
 Matrix: Water Lab File ID: UX000801.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:57  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:33  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 102  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 103  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101  |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 97   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW46A-031122 Lab Sample ID: 240-163634-29  
 Matrix: Water Lab File ID: UX000801.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:57  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:33  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW46A-031122 Lab Sample ID: 240-163634-29  
 Matrix: Water Lab File ID: UX000801.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:57  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:33  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW47A-031122 Lab Sample ID: 240-163634-30  
 Matrix: Water Lab File ID: UX000802.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:33  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:58  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW47A-031122 Lab Sample ID: 240-163634-30  
 Matrix: Water Lab File ID: UX000802.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:33  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:58  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW47A-031122 Lab Sample ID: 240-163634-30  
 Matrix: Water Lab File ID: UX000802.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:33  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:58  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |

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

|   |   |
|---|---|
| Lab Name: <u>Eurofins Canton</u>          | Job No.: <u>240-163634-1</u>                  |
| SDG No.: <u>MSA Frog Mortar Creek</u>     |   |
| Client Sample ID: <u>MSA-SW47A-031122</u> | Lab Sample ID: <u>240-163634-30</u>           |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UX000802.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>03/11/2022 09:33</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>03/24/2022 19:58</u>        |
| Soil Aliquot Vol: _____                   | Dilution Factor: <u>1</u>                     |
| Soil Extract Vol.: _____                  | GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u> |
| % Moisture: _____                         | Level: (low/med) <u>Low</u>                   |
| Analysis Batch No.: <u>520730</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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW47A-031122 Lab Sample ID: 240-163634-30  
 Matrix: Water Lab File ID: UX000802.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:33  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:58  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW48A-031122 Lab Sample ID: 240-163634-31  
 Matrix: Water Lab File ID: UX000803.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:22  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW48A-031122 Lab Sample ID: 240-163634-31  
 Matrix: Water Lab File ID: UX000803.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:22  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW48A-031122 Lab Sample ID: 240-163634-31  
 Matrix: Water Lab File ID: UX000803.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:22  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

|   |   |
|---|---|
| Lab Name: <u>Eurofins Canton</u>          | Job No.: <u>240-163634-1</u>                  |
| SDG No.: <u>MSA Frog Mortar Creek</u>     |   |
| Client Sample ID: <u>MSA-SW48A-031122</u> | Lab Sample ID: <u>240-163634-31</u>           |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UX000803.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>03/11/2022 09:05</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>03/24/2022 20:22</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>520730</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>1</u>               | TIC Result Total: <u>2.1</u>                  |

| CAS NO.  | COMPOUND NAME       | RT    | RESULT | Q     | MATCH QUALITY |
|----------|---------------------|-------|--------|-------|---------------|
| 104-76-7 | 1-Hexanol, 2-ethyl- | 10.90 | 2.1    | T J N | 78%           |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW48A-031122 Lab Sample ID: 240-163634-31  
 Matrix: Water Lab File ID: UX000803.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:22  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW49A-031122 Lab Sample ID: 240-163634-32  
 Matrix: Water Lab File ID: UX000804.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:38  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:47  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW49A-031122 Lab Sample ID: 240-163634-32  
 Matrix: Water Lab File ID: UX000804.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:38  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:47  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW49A-031122 Lab Sample ID: 240-163634-32  
 Matrix: Water Lab File ID: UX000804.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:38  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:47  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW49A-031122 Lab Sample ID: 240-163634-32  
 Matrix: Water Lab File ID: UX000804.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:38  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:47  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW49A-031122 Lab Sample ID: 240-163634-32  
 Matrix: Water Lab File ID: UX000804.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:38  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:47  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SWEQB-031122 Lab Sample ID: 240-163634-33  
 Matrix: Water Lab File ID: UX000805.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 21:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 7.5    | J | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SWEQB-031122 Lab Sample ID: 240-163634-33  
 Matrix: Water Lab File ID: UX000805.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 21:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SWEQB-031122 Lab Sample ID: 240-163634-33  
 Matrix: Water Lab File ID: UX000805.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 21:11  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 98   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 97   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SWEQB-031122 Lab Sample ID: 240-163634-33  
 Matrix: Water Lab File ID: UX000805.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 21:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SWEQB-031122 Lab Sample ID: 240-163634-33  
 Matrix: Water Lab File ID: UX000805.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 21:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

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



**Appendix C**

Support Documentation

LMC - MARTIN STATE AIRPORT  
SDG 240-163634-1

SAMPLE IDENTIFICATION

LCS 240-520596/5

COMPOUND

BENZENE

COMPOUND AREA

1519467

INTERNAL STANDARD AMOUNT (ng)

100

VOLUME WATER PURGED (ml)

5

DILUTION FACTOR

1

INTERNAL STANDARD AREA

1254219

AVERAGE RRF

1.0741

ml to  $\mu$ l

1000

ng to  $\mu$ g

1000

CONCENTRATION

22.56  $\mu$ g/L

REPORTED RESULT

22.6  $\mu$ g/L

$1519467 \times 100\text{ng} \times 1 \times 1000\text{ml} \times 1\mu\text{g} / 12542199 \times 1.0741 \times 5\text{ml} \times 1\text{L} \times 1000\text{ng}$









Baltimore  
#201

2.3/2.1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CANTON  
180 S. VAN BUREN AVE  
BARBERTON, OH, 44203

Chain of Custody Record

TestAmerica Laboratories, Inc.

| Client Contact  |             | Project Manager: Josh Mullis          |             |                          | Site Contact: Josh Mullis                            |  |  | Date: 3/11/2022      |  |                          | COC No.                |  |  |
|---|-------------|---------------------------------------|-------------|--------------------------|--|--|--|----------------------|--|--------------------------|------------------------|--|--|
| Tetra Tech  |             | Tel/Fax: 410-279-2700                 |             |                          | Lab Contact: Roxanne Cisneros                        |  |  | Carrier: Fedex       |  |                          | 1 of 3 COCs            |  |  |
| 20251 Century Blvd, Suite 200   |             | Analysis Turnaround Time              |             |                          | Filtered Sample<br>VOCs + Freon 113/22 + TIC (8560C) |  |  |                      |  |                          | Job No.                |  |  |
| Germantown, MD 20874  |             | Calendar (C) or Work Days (W)         |             |                          |  |  |  |                      |  |                          | 112IC09567             |  |  |
| (301) 528-3021 Phone  |             | TAT if different from Below: STANDARD |             |                          |  |  |  |                      |  |                          | SDG No.                |  |  |
| (301) 528-3000 FAX  |             | <input type="checkbox"/> 2 weeks      |             |                          |  |  |  |                      |  |                          | Sampler: J Mullis      |  |  |
| Project Name: MSA Surface Water Sampling  |             | <input type="checkbox"/> 1 week       |             |                          |  |  |  |                      |  |                          | Sample Specific Notes: |  |  |
| Site: MSA Frog Mortar Creek   |             | <input type="checkbox"/> 2 days       |             |                          |  |  |  |                      |  |                          |                        |  |  |
| PROJECT # 112IC09567  |             | <input type="checkbox"/> 1 day        |             |                          |  |  |  |                      |  |                          |                        |  |  |
| Sample Identification   | Sample Date | Sample Time                           | Sample Type | Matrix                   | # of Cont.   |  |  |                      |  |                          |                        |  |  |
| MSA-SW37A-031122  | 3/11/2022   | 10:21                                 | SW          | Water                    | 3  | x  |  |                      |  |                          |                        |  |  |
| MSA-SW37B-031122  | 3/11/2022   | 10:24                                 | SW          | Water                    | 3  | x  |  |                      |  |                          |                        |  |  |
| MSA-SW37C-031122  | 3/11/2022   | 10:28                                 | SW          | Water                    | 3  | x  |  |                      |  |                          |                        |  |  |
| MSA-SW37D-031122  | 3/11/2022   | 10:34                                 | SW          | Water                    | 3  | x  |  |                      |  |                          |                        |  |  |
| MSA-SW38A-031122  | 3/11/2022   | 9:15                                  | SW          | Water                    | 3  | x  |  |                      |  |                          |                        |  |  |
| MSA-SW38B-031122  | 3/11/2022   | 9:22                                  | SW          | Water                    | 3  | x  |  |                      |  |                          |                        |  |  |
| MSA-SW38C-031122  | 3/11/2022   | 9:25                                  | SW          | Water                    | 3  | x  |  |                      |  |                          |                        |  |  |
| MSA-SW38D-031122  | 3/11/2022   | 9:27                                  | SW          | Water                    | 3  | x  |  |                      |  |                          |                        |  |  |
| MSA-SW40A-031122  | 3/11/2022   | 9:39                                  | SW          | Water                    | 3  | x  |  |                      |  |                          |                        |  |  |
| MSA-SW40B-031122  | 3/11/2022   | 9:43                                  | SW          | Water                    | 3  | x  |  |                      |  |                          |                        |  |  |
| MSA-SW40C-031122  | 3/11/2022   | 9:47                                  | SW          | Water                    | 3  | x  |  |                      |  |                          |                        |  |  |
| MSA-SW40D-031122  | 3/11/2022   | 9:51                                  | SW          | Water                    | 3  | x  |  |                      |  |                          |                        |  |  |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other   |             |                                       |             |                          |  | 2  |  |                      |  |                          |                        |  |  |
| Possible Hazard Identification  |             |                                       |             |                          |  | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)   |  |                      |  |                          |                        |  |  |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown |             |                                       |             |                          |  | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |  |                      |  |                          |                        |  |  |
| Special Instructions/QC Requirements & Comments:  |             |                                       |             |                          |  |  |  |                      |  |                          |                        |  |  |
| Relinquished by: NICHOLAS Emm   |             | Company: TETRA TECH, INC.             |             | Date/Time: 3/11/22 12:40 |  | Received by: [Signature]   |  | Company: [Signature] |  | Date/Time: 3/11/22 12:40 |                        |  |  |
| Relinquished by: [Signature]  |             | Company: [Signature]                  |             | Date/Time: 3/11/22 12:00 |  | Received by: Mandely Blaw  |  | Company: [Signature] |  | Date/Time: 3-12-22 10:00 |                        |  |  |
| Relinquished by:  |             | Company:                              |             | Date/Time:               |  | Received by:   |  | Company:             |  | Date/Time:               |                        |  |  |



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03/28/2022

CANTON  
180 S. VAN BUREN AVE  
BARBERTON, OH, 44203

Baltimore  
#201

Chain of Custody Record

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

| Client Contact  |  | Project Manager: Josh Mullis         |             |                          |        | Site Contact: Josh Mullis                            |  |                      |  | Date: 3/11/2022          |  |  |  | COC No.                |  |  |  |  |  |  |  |  |
|---|--|--------------------------------------|-------------|--------------------------|--------|--|--|----------------------|--|--------------------------|--|--|--|------------------------|--|--|--|--|--|--|--|--|
| Tetra Tech  |  | Tel/Fax: 410-279-2700                |             |                          |        | Lab Contact: Roxanne Cisneros                        |  |                      |  | Carrier: Fedex           |  |  |  | 2 of 3 COCs            |  |  |  |  |  |  |  |  |
| 20251 Century Blvd, Suite 200   |  | Analysis Turnaround Time             |             |                          |        | Filtered Sample<br>VOCs + Freon 113/22 + TIC (8260C) |  |                      |  |                          |  |  |  | Job No.                |  |  |  |  |  |  |  |  |
| Germantown, MD 20874  |  | Calendar (C) or Work Days (W)        |             |                          |        |  |  |                      |  |                          |  |  |  | 112IC09567             |  |  |  |  |  |  |  |  |
| (301) 528-3021 Phone  |  | TAT if different from Below STANDARD |             |                          |        |  |  |                      |  |                          |  |  |  | SDG No.                |  |  |  |  |  |  |  |  |
| (301) 528-3000 FAX  |  | <input type="checkbox"/> 2 weeks     |             |                          |        |  |  |                      |  |                          |  |  |  | Sampler: J Mullis      |  |  |  |  |  |  |  |  |
| Project Name: MSA Surface Water Sampling  |  | <input type="checkbox"/> 1 week      |             |                          |        |  |  |                      |  |                          |  |  |  | Sample Specific Notes: |  |  |  |  |  |  |  |  |
| Site: MSA Frog Mortar Creek   |  | <input type="checkbox"/> 2 days      |             |                          |        |  |  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| PROJECT # 112IC09567  |  | <input type="checkbox"/> 1 day       |             |                          |        |  |  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| Sample Identification   |  | Sample Date                          | Sample Time | Sample Type              | Matrix | # of Cont.   |  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| MSA-SW41A-031122  |  | 3/11/2022                            | 8:46        | SW                       | Water  | 3  | x  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| MSA-SW41B-031122  |  | 3/11/2022                            | 8:48        | SW                       | Water  | 3  | x  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| MSA-SW41C-031122  |  | 3/11/2022                            | 8:54        | SW                       | Water  | 3  | x  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| MSA-SW41D-031122  |  | 3/11/2022                            | 8:59        | SW                       | Water  | 3  | x  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| MSA-SW42A-031122  |  | 3/11/2022                            | 10:01       | SW                       | Water  | 3  | x  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| MSA-SW42B-031122  |  | 3/11/2022                            | 10:06       | SW                       | Water  | 3  | x  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| MSA-SW42C-031122  |  | 3/11/2022                            | 10:09       | SW                       | Water  | 3  | x  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| MSA-SW42D-031122  |  | 3/11/2022                            | 10:14       | SW                       | Water  | 3  | x  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| MSA-SW43A-031122  |  | 3/11/2022                            | 8:18        | SW                       | Water  | 3  | x  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| MSA-SW43B-031122  |  | 3/11/2022                            | 8:24        | SW                       | Water  | 3  | x  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| MSA-SW43C-031122  |  | 3/11/2022                            | 8:27        | SW                       | Water  | 3  | x  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| MSA-SW43D-031122  |  | 3/11/2022                            | 8:32        | SW                       | Water  | 3  | x  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other   |  |                                      |             |                          |        |  | 2  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| Possible Hazard Identification  |  |                                      |             |                          |        |  | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)   |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> |  |                                      |             |                          |        |  | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| Special Instructions/QC Requirements & Comments:  |  |                                      |             |                          |        |  |  |                      |  |                          |  |  |  |                        |  |  |  |  |  |  |  |  |
| Relinquished by: NICHOLAS Emm   |  | Company: TETRA TECH, INC.            |             | Date/Time: 3/11/22 12:40 |        | Received by: [Signature]                             |  | Company: [Signature] |  | Date/Time: 3/11/22 12:40 |  |  |  |                        |  |  |  |  |  |  |  |  |
| Relinquished by: [Signature]  |  | Company: [Signature]                 |             | Date/Time: 3/11/22 12:00 |        | Received by: Mandy Black                             |  | Company: [Signature] |  | Date/Time: 3-12-22 10:00 |  |  |  |                        |  |  |  |  |  |  |  |  |
| Relinquished by:  |  | Company:                             |             | Date/Time:               |        | Received by:   |  | Company:             |  | Date/Time:               |  |  |  |                        |  |  |  |  |  |  |  |  |

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# Baltimore #201

CANTON  
180 S. VAN BUREN AVE  
BARBERTON, OH, 44203

## Chain of Custody Record

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

| <b>Client Contact</b>  |             | <b>Project Manager: Josh Mullis</b>   |             |                             |            | <b>Site Contact: Josh Mullis</b>   |  | <b>Date: 3/11/2022</b> |  | <b>COC No:</b>           |                 |
|--|-------------|---------------------------------------|-------------|-----------------------------|------------|--|--|------------------------|--|--------------------------|-----------------|
| Tetra Tech   |             | Tel/Fax: 410-279-2700                 |             |                             |            | Lab Contact: Roxanne Cisneros  |  | Carrier: Fedex         |  | 3 of 3 COCs              |                 |
| 20251 Century Blvd, Suite 200  |             | <b>Analysis Turnaround Time</b>       |             |                             |            | Filtered Sample<br>VOCs + Freon 113/22 + TIC (8260C)   |  |                        |  | Job No.                  |                 |
| Germantown, MD 20874   |             | Calendar (C) or Work Days (W)         |             |                             |            |  |  |                        |  | 112IC09567               |                 |
| (301) 528-3021 Phone   |             | TAT if different from Below. STANDARD |             |                             |            |  |  |                        |  | SDG No                   |                 |
| (301) 528-3000 FAX   |             | <input type="checkbox"/> 2 weeks      |             |                             |            |  |  |                        |  | Sampler: J Mullis        |                 |
| Project Name: MSA Surface Water Sampling   |             | <input type="checkbox"/> 1 week       |             |                             |            |  |  |                        |  | Sample Specific Notes:   |                 |
| Site: MSA Frog Mortar Creek  |             | <input type="checkbox"/> 2 days       |             |                             |            |  |  |                        |  |                          |                 |
| PROJECT # 112IC09567   |             | <input type="checkbox"/> 1 day        |             |                             |            |  |  |                        |  |                          |                 |
| Sample Identification  | Sample Date | Sample Time                           | Sample Type | Matrix                      | # of Cont. |  |  |                        |  |                          |                 |
| TB-031122  | 3/11/2022   | 0000                                  | SW          | Water                       | 2          |  |  |                        |  |                          | TRIP BLANK      |
| MSA-SW46A-031122   | 3/11/2022   | 9:57                                  | SW          | Water                       | 3          |  |  |                        |  |                          |                 |
| MSA-SW47A-031122   | 3/11/2022   | 9:33                                  | SW          | Water                       | 3          |  |  |                        |  |                          |                 |
| MSA-SW48A-031122   | 3/11/2022   | 9:05                                  | SW          | Water                       | 3          |  |  |                        |  |                          |                 |
| MSA-SW49A-031122   | 3/11/2022   | 8:38                                  | SW          | Water                       | 3          |  |  |                        |  |                          |                 |
| MSA-SWEQB-031122   | 3/11/2022   | 11:30                                 | SW          | Water                       | 3          |  |  |                        |  |                          | EQUIPMENT BLANK |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other  |             |                                       |             |                             |            | 2  |  |                        |  |                          |                 |
| <b>Possible Hazard Identification</b>  |             |                                       |             |                             |            | <b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>  |  |                        |  |                          |                 |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> |             |                                       |             |                             |            | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |  |                        |  |                          |                 |
| <b>Special Instructions/QC Requirements &amp; Comments:</b>  |             |                                       |             |                             |            |  |  |                        |  |                          |                 |
| Relinquished by: <i>NICHOLAS Emm</i>   |             | Company: <b>TETRA TECH, INC.</b>      |             | Date/Time: 12:40<br>3/11/22 |            | Received by: <i>[Signature]</i>  |  | Company: <b>PAOT</b>   |  | Date/Time: 3/11/22 12:40 |                 |
| Relinquished by: <i>[Signature]</i>  |             | Company: <b>ERT</b>                   |             | Date/Time: 1:00<br>3/11/22  |            | Received by: <i>Mandy Blue</i>   |  | Company: <b>ertnc</b>  |  | Date/Time: 3-12-22 10:00 |                 |
| Relinquished by:   |             | Company:                              |             | Date/Time:                  |            | Received by:   |  | Company:               |  | Date/Time:               |                 |

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Client Tetra Tech Site Name \_\_\_\_\_ Cooler unpacked by: Mandy Block  
 Cooler Received on 3-12-22 Opened on 3-12-22  
 FedEx: 1<sup>st</sup> Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other \_\_\_\_\_

**Receipt After-hours: Drop-off Date/Time** \_\_\_\_\_ **Storage Location** \_\_\_\_\_

TestAmerica Cooler # TA Foam Box Client Cooler Box Other \_\_\_\_\_  
 Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_  
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt  See Multiple Cooler Form  
 IR GUN# IR-14 (CF -0.2 °C) Observed Cooler Temp 2.3 °C Corrected Cooler Temp 2.1 °C  
 IR GUN #IR-15 (CF -0.7°C) Observed Cooler Temp \_\_\_\_\_ °C Corrected Cooler Temp \_\_\_\_\_ °C

- |  |     |    |                                  |
|--|-----|----|----------------------------------|
| 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____                                      | Yes | No |                                  |
| -Were the seals on the outside of the cooler(s) signed & dated?  | Yes | No | NA                               |
| -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?  | Yes | No | NA                               |
| -Were tamper/custody seals intact and uncompromised?   | Yes | No | NA                               |
| 3. Shippers' packing slip attached to the cooler(s)?   | Yes | No |                                  |
| 4. Did custody papers accompany the sample(s)?   | Yes | No |                                  |
| 5. Were the custody papers relinquished & signed in the appropriate place?   | Yes | No |                                  |
| 6. Was/were the person(s) who collected the samples clearly identified on the COC?                                       | Yes | No |                                  |
| 7. Did all bottles arrive in good condition (Unbroken)?  | Yes | No |                                  |
| 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?  | Yes | No |                                  |
| 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? | Yes | No |                                  |
| 10. Were correct bottle(s) used for the test(s) indicated?   | Yes | No |                                  |
| 11. Sufficient quantity received to perform indicated analyses?  | Yes | No |                                  |
| 12. Are these work share samples and all listed on the COC?  | Yes | No |                                  |
| If yes, Questions 13-17 have been checked at the originating laboratory.   |     |    |                                  |
| 13. Were all preserved sample(s) at the correct pH upon receipt?   | Yes | No | NA pH Strip Lot# <u>HC157842</u> |
| 14. Were VOAs on the COC?  | Yes | No |                                  |
| 15. Were air bubbles >6 mm in any VOA vials?  ← Larger than this.  | Yes | No | NA                               |
| 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____  | Yes | No |                                  |
| 17. Was a LL Hg or Me Hg trip blank present?   | Yes | No |                                  |

Tests that are not checked for pH by Receiving:  
 VOAs  
 Oil and Grease  
 TOC

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_  
 Concerning \_\_\_\_\_

**18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**  additional next page Samples processed by: \_\_\_\_\_

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**19. 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)

**20. SAMPLE PRESERVATION**  
 Sample(s) \_\_\_\_\_ were further preserved in the laboratory.  
 Time preserved: \_\_\_\_\_ Preservative(s) added/Lot number(s): \_\_\_\_\_  
 VOA Sample Preservation - Date/Time VOAs Frozen: \_\_\_\_\_

**Job Narrative**  
**240-163634-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 3/12/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

**GC/MS VOA**

Method 8260C: The pH of sample MSA-SW37C-031122 (240-163634-6) was greater than 2. The sample was analyzed within the normal 14 day holding time; however, experimental evidence suggests that some aromatic compounds in wastewater samples, notably, Benzene, Toluene, and Ethylbenzene are susceptible to biological degradation if samples are not preserved to a pH of 2.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-520596 was outside the method criteria for 2-Methyl-2-propanol, Dichlorodi fluoromethane and Vinyl Acetate. 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-SW37C-031122 (240-163634-6), MSA-SW37D-031122 (240-163634-7), MSA-SW38A-031122 (240-163634-8), MSA-SW38B-031122 (240-163634-9), MSA-SW38C-031122 (240-163634-10), MSA-SW38D-031122 (240-163634-11), MSA-SW40A-031122 (240-163634-12), MSA-SW40B-031122 (240-163634-13), MSA-SW40C-031122 (240-163634-14), MSA-SW40D-031122 (240-163634-15), MSA-SW41A-031122 (240-163634-16) and (CCVIS 240-520596/3)

Method 8260C: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MSA-SW37C-031122 (240-163634-6), MSA-SW37D-031122 (240-163634-7), MSA-SW38A-031122 (240-163634-8), MSA-SW38B-031122 (240-163634-9), MSA-SW38C-031122 (240-163634-10), MSA-SW38D-031122 (240-163634-11), MSA-SW40A-031122 (240-163634-12), MSA-SW40B-031122 (240-163634-13), MSA-SW40C-031122 (240-163634-14), MSA-SW40D-031122 (240-163634-15) and MSA-SW41A-031122 (240-163634-16). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Methods 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-520730.

Method 8260C: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MSA-SW37A-031122 (240-163634-4), MSA-SW37B-031122 (240-163634-5), MSA-SW41B-031122 (240-163634-17), MSA-SW41C-031122 (240-163634-18), MSA-SW41D-031122 (240-163634-19), MSA-SW42A-031122 (240-163634-20), MSA-SW42B-031122 (240-163634-21), MSA-SW42C-031122 (240-163634-22), MSA-SW42D-031122 (240-163634-23), MSA-SW43A-031122 (240-163634-24), MSA-SW43B-031122 (240-163634-25), MSA-SW43C-031122 (240-163634-26), MSA-SW43D-031122 (240-163634-27), TB-031122 (240-163634-28), MSA-SW46A-031122 (240-163634-29), MSA-SW47A-031122 (240-163634-30), MSA-SW48A-031122 (240-163634-31), MSA-SW49A-031122 (240-163634-32) and MSA-SW49B-031122 (240-163634-33). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**VOA Prep**

No additional analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Definitions/Glossary

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description  |
|-----------|--|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U         | Indicates the analyte was analyzed for but not detected.   |

### GC/MS VOA TICs

| Qualifier | Qualifier Description  |
|-----------|--|
| J         | Indicates an Estimated Value for TICs  |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| N         | This flag indicates the presumptive evidence of a compound.  |
| T         | Result is a tentatively identified compound (TIC) and an estimated value.                                      |
| U         | Indicates the analyte was analyzed for but not detected.   |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| ▫              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CFU            | Colony Forming Unit   |
| 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)   |
| MCL            | EPA recommended "Maximum Contaminant Level"   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| MPN            | Most Probable Number  |
| MQL            | Method Quantitation Limit   |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| NEG            | Negative / Absent   |
| POS            | Positive / Present  |
| PQL            | Practical Quantitation Limit  |
| PRES           | Presumptive   |
| 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)   |
| TNTC           | Too Numerous To Count   |

# Sample Summary

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-163634-4  | MSA-SW37A-031122 | Water  | 03/11/22 10:21 | 03/12/22 10:00 |
| 240-163634-5  | MSA-SW37B-031122 | Water  | 03/11/22 10:24 | 03/12/22 10:00 |
| 240-163634-6  | MSA-SW37C-031122 | Water  | 03/11/22 10:28 | 03/12/22 10:00 |
| 240-163634-7  | MSA-SW37D-031122 | Water  | 03/11/22 10:34 | 03/12/22 10:00 |
| 240-163634-8  | MSA-SW38A-031122 | Water  | 03/11/22 09:15 | 03/12/22 10:00 |
| 240-163634-9  | MSA-SW38B-031122 | Water  | 03/11/22 09:22 | 03/12/22 10:00 |
| 240-163634-10 | MSA-SW38C-031122 | Water  | 03/11/22 09:25 | 03/12/22 10:00 |
| 240-163634-11 | MSA-SW38D-031122 | Water  | 03/11/22 09:27 | 03/12/22 10:00 |
| 240-163634-12 | MSA-SW40A-031122 | Water  | 03/11/22 09:39 | 03/12/22 10:00 |
| 240-163634-13 | MSA-SW40B-031122 | Water  | 03/11/22 09:43 | 03/12/22 10:00 |
| 240-163634-14 | MSA-SW40C-031122 | Water  | 03/11/22 09:47 | 03/12/22 10:00 |
| 240-163634-15 | MSA-SW40D-031122 | Water  | 03/11/22 09:51 | 03/12/22 10:00 |
| 240-163634-16 | MSA-SW41A-031122 | Water  | 03/11/22 08:46 | 03/12/22 10:00 |
| 240-163634-17 | MSA-SW41B-031122 | Water  | 03/11/22 08:48 | 03/12/22 10:00 |
| 240-163634-18 | MSA-SW41C-031122 | Water  | 03/11/22 08:54 | 03/12/22 10:00 |
| 240-163634-19 | MSA-SW41D-031122 | Water  | 03/11/22 08:59 | 03/12/22 10:00 |
| 240-163634-20 | MSA-SW42A-031122 | Water  | 03/11/22 10:01 | 03/12/22 10:00 |
| 240-163634-21 | MSA-SW42B-031122 | Water  | 03/11/22 10:06 | 03/12/22 10:00 |
| 240-163634-22 | MSA-SW42C-031122 | Water  | 03/11/22 10:09 | 03/12/22 10:00 |
| 240-163634-23 | MSA-SW42D-031122 | Water  | 03/11/22 10:14 | 03/12/22 10:00 |
| 240-163634-24 | MSA-SW43A-031122 | Water  | 03/11/22 08:18 | 03/12/22 10:00 |
| 240-163634-25 | MSA-SW43B-031122 | Water  | 03/11/22 08:24 | 03/12/22 10:00 |
| 240-163634-26 | MSA-SW43C-031122 | Water  | 03/11/22 08:27 | 03/12/22 10:00 |
| 240-163634-27 | MSA-SW43D-031122 | Water  | 03/11/22 08:32 | 03/12/22 10:00 |
| 240-163634-28 | TB-031122        | Water  | 03/11/22 00:00 | 03/12/22 10:00 |
| 240-163634-29 | MSA-SW46A-031122 | Water  | 03/11/22 09:57 | 03/12/22 10:00 |
| 240-163634-30 | MSA-SW47A-031122 | Water  | 03/11/22 09:33 | 03/12/22 10:00 |
| 240-163634-31 | MSA-SW48A-031122 | Water  | 03/11/22 09:05 | 03/12/22 10:00 |
| 240-163634-32 | MSA-SW49A-031122 | Water  | 03/11/22 08:38 | 03/12/22 10:00 |
| 240-163634-33 | MSA-SWEQB-031122 | Water  | 03/11/22 11:30 | 03/12/22 10:00 |

# Method Summary

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

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| <b>Method</b> | <b>Method Description</b>           | <b>Protocol</b> | <b>Laboratory</b> |
|---------------|-------------------------------------|-----------------|-------------------|
| 8260C         | Volatile Organic Compounds by GC/MS | SW846           | TAL CAN           |
| 5030C         | Purge and Trap                      | SW846           | TAL CAN           |

**Protocol References:**

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

**Laboratory References:**

TAL CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520426Lab Sample ID: STD8260 240-520426/8 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 03/21/22 16:23 Lab File ID: UX000684.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME      | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|--------------------|----------------|---------------------|-----------|----------------|
|                    |                | REASON              | ANALYST   | DATE           |
| Acetone            | 2.97           | Invalid Compound ID | bosworthh | 03/22/22 09:15 |
| Methylene Chloride |                | Invalid Compound ID | bosworthh | 03/22/22 09:17 |

Lab Sample ID: STDA9 240-520426/18 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 03/21/22 20:28 Lab File ID: UX000694.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME     | RETENTION TIME | MANUAL INTEGRATION        |           |                |
|-------------------|----------------|---------------------------|-----------|----------------|
|                   |                | REASON                    | ANALYST   | DATE           |
| Pentachloroethane | 10.30          | Peak assignment corrected | bosworthh | 03/22/22 09:53 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520596Lab Sample ID: MB 240-520596/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/23/22 11:52 Lab File ID: UX000753.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/23/22 12:11 |

Lab Sample ID: 240-163634-6 Client Sample ID: MSA-SW37C-031122Date Analyzed: 03/23/22 16:22 Lab File ID: UX000764.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:03 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:03 |

Lab Sample ID: 240-163634-7 Client Sample ID: MSA-SW37D-031122Date Analyzed: 03/23/22 16:46 Lab File ID: UX000765.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:05 |

Lab Sample ID: 240-163634-8 Client Sample ID: MSA-SW38A-031122Date Analyzed: 03/23/22 17:11 Lab File ID: UX000766.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:06 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:06 |
| tert-Butyl alcohol   |                | Invalid Compound ID | bosworthh | 03/24/22 08:06 |



## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520596Lab Sample ID: 240-163634-9 Client Sample ID: MSA-SW38B-031122Date Analyzed: 03/23/22 17:35 Lab File ID: UX000767.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:07 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:07 |
| tert-Butyl alcohol   |                | Invalid Compound ID | bosworthh | 03/24/22 08:06 |

Lab Sample ID: 240-163634-10 Client Sample ID: MSA-SW38C-031122Date Analyzed: 03/23/22 17:59 Lab File ID: UX000768.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:07 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:07 |

Lab Sample ID: 240-163634-11 Client Sample ID: MSA-SW38D-031122Date Analyzed: 03/23/22 18:24 Lab File ID: UX000769.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:09 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:08 |
| tert-Butyl alcohol   |                | Invalid Compound ID | bosworthh | 03/24/22 08:08 |

Lab Sample ID: 240-163634-12 Client Sample ID: MSA-SW40A-031122Date Analyzed: 03/23/22 18:48 Lab File ID: UX000770.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:13 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:13 |
| n-Propylbenzene      |                | Invalid Compound ID | bosworthh | 03/24/22 08:13 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520596Lab Sample ID: 240-163634-13 Client Sample ID: MSA-SW40B-031122Date Analyzed: 03/23/22 19:13 Lab File ID: UX000771.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:14 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:14 |

Lab Sample ID: 240-163634-14 Client Sample ID: MSA-SW40C-031122Date Analyzed: 03/23/22 19:37 Lab File ID: UX000772.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:15 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:15 |
| tert-Butyl alcohol   |                | Invalid Compound ID | bosworthh | 03/24/22 08:15 |

Lab Sample ID: 240-163634-15 Client Sample ID: MSA-SW40D-031122Date Analyzed: 03/23/22 20:02 Lab File ID: UX000773.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:15 |

Lab Sample ID: 240-163634-16 Client Sample ID: MSA-SW41A-031122Date Analyzed: 03/23/22 20:26 Lab File ID: UX000774.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:16 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:16 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520730Lab Sample ID: MB 240-520730/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/24/22 13:01 Lab File ID: UX000785.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 13:47 |

Lab Sample ID: 240-163634-4 Client Sample ID: MSA-SW37A-031122Date Analyzed: 03/24/22 13:50 Lab File ID: UX000787.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 14:26 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 14:26 |

Lab Sample ID: 240-163634-5 Client Sample ID: MSA-SW37B-031122Date Analyzed: 03/24/22 14:15 Lab File ID: UX000788.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 14:59 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 14:59 |
| tert-Butyl alcohol   |                | Invalid Compound ID | bosworthh | 03/24/22 14:59 |

Lab Sample ID: 240-163634-17 Client Sample ID: MSA-SW41B-031122Date Analyzed: 03/24/22 14:39 Lab File ID: UX000789.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 15:00 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 14:59 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520730Lab Sample ID: 240-163634-18 Client Sample ID: MSA-SW41C-031122Date Analyzed: 03/24/22 15:04 Lab File ID: UX000790.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 07:57 |

Lab Sample ID: 240-163634-19 Client Sample ID: MSA-SW41D-031122Date Analyzed: 03/24/22 15:28 Lab File ID: UX000791.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 07:57 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 07:57 |

Lab Sample ID: 240-163634-20 Client Sample ID: MSA-SW42A-031122Date Analyzed: 03/24/22 15:53 Lab File ID: UX000792.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 07:58 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 07:58 |

Lab Sample ID: 240-163634-21 Client Sample ID: MSA-SW42B-031122Date Analyzed: 03/24/22 16:17 Lab File ID: UX000793.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 07:58 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 07:58 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520730Lab Sample ID: 240-163634-22 Client Sample ID: MSA-SW42C-031122Date Analyzed: 03/24/22 16:42 Lab File ID: UX000794.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:00 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:00 |

Lab Sample ID: 240-163634-23 Client Sample ID: MSA-SW42D-031122Date Analyzed: 03/24/22 17:06 Lab File ID: UX000795.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:00 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:00 |

Lab Sample ID: 240-163634-24 Client Sample ID: MSA-SW43A-031122Date Analyzed: 03/24/22 17:31 Lab File ID: UX000796.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:03 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:03 |

Lab Sample ID: 240-163634-25 Client Sample ID: MSA-SW43B-031122Date Analyzed: 03/24/22 17:55 Lab File ID: UX000797.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:05 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:05 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520730Lab Sample ID: 240-163634-26 Client Sample ID: MSA-SW43C-031122Date Analyzed: 03/24/22 18:20 Lab File ID: UX000798.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:09 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:08 |

Lab Sample ID: 240-163634-27 Client Sample ID: MSA-SW43D-031122Date Analyzed: 03/24/22 18:44 Lab File ID: UX000799.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:09 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:09 |

Lab Sample ID: 240-163634-28 Client Sample ID: TB-031122Date Analyzed: 03/24/22 19:09 Lab File ID: UX000800.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:10 |

Lab Sample ID: 240-163634-29 Client Sample ID: MSA-SW46A-031122Date Analyzed: 03/24/22 19:33 Lab File ID: UX000801.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:10 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:10 |
| tert-Butyl alcohol   |                | Invalid Compound ID | bosworthh | 03/25/22 08:10 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520730Lab Sample ID: 240-163634-30 Client Sample ID: MSA-SW47A-031122Date Analyzed: 03/24/22 19:58 Lab File ID: UX000802.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:11 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:11 |

Lab Sample ID: 240-163634-31 Client Sample ID: MSA-SW48A-031122Date Analyzed: 03/24/22 20:22 Lab File ID: UX000803.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:11 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:11 |

Lab Sample ID: 240-163634-32 Client Sample ID: MSA-SW49A-031122Date Analyzed: 03/24/22 20:47 Lab File ID: UX000804.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:12 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:12 |

Lab Sample ID: 240-163634-33 Client Sample ID: MSA-SWEQB-031122Date Analyzed: 03/24/22 21:11 Lab File ID: UX000805.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:13 |
| Chloromethane        |                | Invalid Compound ID | bosworthh | 03/25/22 08:12 |

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

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-031122 | 240-163634-4     | 98     | 96    | 93    | 98    |
| MSA-SW37B-031122 | 240-163634-5     | 98     | 96    | 94    | 99    |
| MSA-SW37C-031122 | 240-163634-6     | 102    | 98    | 95    | 99    |
| MSA-SW37D-031122 | 240-163634-7     | 100    | 97    | 95    | 99    |
| MSA-SW38A-031122 | 240-163634-8     | 104    | 98    | 96    | 101   |
| MSA-SW38B-031122 | 240-163634-9     | 100    | 95    | 95    | 99    |
| MSA-SW38C-031122 | 240-163634-10    | 101    | 98    | 96    | 101   |
| MSA-SW38D-031122 | 240-163634-11    | 102    | 96    | 94    | 99    |
| MSA-SW40A-031122 | 240-163634-12    | 101    | 99    | 97    | 102   |
| MSA-SW40B-031122 | 240-163634-13    | 102    | 97    | 95    | 101   |
| MSA-SW40C-031122 | 240-163634-14    | 101    | 97    | 95    | 101   |
| MSA-SW40D-031122 | 240-163634-15    | 102    | 97    | 96    | 102   |
| MSA-SW41A-031122 | 240-163634-16    | 101    | 99    | 93    | 100   |
| MSA-SW41B-031122 | 240-163634-17    | 99     | 96    | 92    | 97    |
| MSA-SW41C-031122 | 240-163634-18    | 98     | 97    | 94    | 101   |
| MSA-SW41D-031122 | 240-163634-19    | 99     | 97    | 95    | 99    |
| MSA-SW42A-031122 | 240-163634-20    | 99     | 100   | 95    | 100   |
| MSA-SW42B-031122 | 240-163634-21    | 98     | 96    | 92    | 97    |
| MSA-SW42C-031122 | 240-163634-22    | 101    | 101   | 96    | 101   |
| MSA-SW42D-031122 | 240-163634-23    | 101    | 98    | 94    | 100   |
| MSA-SW43A-031122 | 240-163634-24    | 100    | 99    | 96    | 102   |
| MSA-SW43B-031122 | 240-163634-25    | 98     | 97    | 92    | 99    |
| MSA-SW43C-031122 | 240-163634-26    | 100    | 98    | 95    | 100   |
| MSA-SW43D-031122 | 240-163634-27    | 102    | 100   | 96    | 102   |
| TB-031122        | 240-163634-28    | 98     | 97    | 93    | 98    |
| MSA-SW46A-031122 | 240-163634-29    | 103    | 101   | 97    | 102   |
| MSA-SW47A-031122 | 240-163634-30    | 98     | 98    | 94    | 100   |
| MSA-SW48A-031122 | 240-163634-31    | 99     | 98    | 95    | 100   |
| MSA-SW49A-031122 | 240-163634-32    | 99     | 96    | 93    | 99    |
| MSA-SWEQB-031122 | 240-163634-33    | 97     | 95    | 94    | 98    |
|                  | MB 240-520596/8  | 104    | 97    | 97    | 101   |
|                  | MB 240-520730/9  | 98     | 93    | 94    | 98    |
|                  | LCS 240-520596/5 | 98     | 89    | 94    | 98    |
|                  | LCS 240-520730/5 | 99     | 90    | 95    | 99    |

QC LIMITS

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

73-120  
62-137  
78-122  
56-136

# Column to be used to flag recovery values



FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
SDG No.: MSA Frog Mortar Creek  
Matrix: Water Level: Low  
GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID        | DBFM # | DCA # | TOL # | BFB # |
|------------------|----------------------|--------|-------|-------|-------|
|                  | LCSD<br>240-520730/6 | 97     | 90    | 94    | 98    |

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

QC LIMITS  
73-120  
62-137  
78-122  
56-136

# Column to be used to flag recovery values

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Sample No.: ICIS 240-520426/11 Date Analyzed: 03/21/2022 17:37  
 Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): UX000687.D Heated Purge: (Y/N) N  
 Calibration ID: 64948

|                               | FB               |         | CBNZd5  |        | DCBd4  |        |       |
|-------------------------------|------------------|---------|---------|--------|--------|--------|-------|
|                               | AREA #           | RT #    | AREA #  | RT #   | AREA # | RT #   |       |
| INITIAL CALIBRATION MID-POINT | 1212936          | 5.47    | 915546  | 8.31   | 480108 | 10.70  |       |
| UPPER LIMIT                   | 2425872          | 5.97    | 1831092 | 8.81   | 960216 | 11.20  |       |
| LOWER LIMIT                   | 606468           | 4.97    | 457773  | 7.81   | 240054 | 10.20  |       |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID |         |         |        |        |        |       |
| ICV 240-520426/15             |                  | 1229695 | 5.47    | 935165 | 8.31   | 478393 | 10.70 |
| ICV 240-520426/24             |                  | 1213231 | 5.48    | 936646 | 8.31   | 476165 | 10.70 |
| CCVIS 240-520596/3            |                  | 1226722 | 5.47    | 967058 | 8.31   | 493039 | 10.70 |
| CCVIS 240-520730/3            |                  | 1240650 | 5.47    | 948886 | 8.31   | 497825 | 10.70 |

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

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

RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Sample No.: CCVIS 240-520596/3 Date Analyzed: 03/23/2022 09:49  
 Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): UX000747.D Heated Purge: (Y/N) N  
 Calibration ID: 64952

|                  | FB               |         | CBNZd5  |        | DCBd4  |        |       |
|------------------|------------------|---------|---------|--------|--------|--------|-------|
|                  | AREA #           | RT #    | AREA #  | RT #   | AREA # | RT #   |       |
| 12/24 HOUR STD   | 1226722          | 5.47    | 967058  | 8.31   | 493039 | 10.70  |       |
| UPPER LIMIT      | 2453444          | 5.97    | 1934116 | 8.81   | 986078 | 11.20  |       |
| LOWER LIMIT      | 613361           | 4.97    | 483529  | 7.81   | 246520 | 10.20  |       |
| LAB SAMPLE ID    | CLIENT SAMPLE ID |         |         |        |        |        |       |
| CCV 240-520596/4 |                  | 1228034 | 5.47    | 944338 | 8.31   | 484618 | 10.70 |
| LCS 240-520596/5 |                  | 1254219 | 5.47    | 962712 | 8.31   | 502940 | 10.70 |
| MB 240-520596/8  |                  | 1142424 | 5.47    | 895155 | 8.31   | 464881 | 10.70 |
| 240-163634-6     | MSA-SW37C-031122 | 1162302 | 5.47    | 918872 | 8.31   | 472910 | 10.70 |
| 240-163634-7     | MSA-SW37D-031122 | 1176553 | 5.47    | 913674 | 8.31   | 472838 | 10.70 |
| 240-163634-8     | MSA-SW38A-031122 | 1140538 | 5.47    | 901513 | 8.31   | 465208 | 10.70 |
| 240-163634-9     | MSA-SW38B-031122 | 1168866 | 5.47    | 904454 | 8.31   | 476699 | 10.70 |
| 240-163634-10    | MSA-SW38C-031122 | 1155089 | 5.48    | 902282 | 8.31   | 463346 | 10.70 |
| 240-163634-11    | MSA-SW38D-031122 | 1160817 | 5.48    | 916776 | 8.31   | 461966 | 10.70 |
| 240-163634-12    | MSA-SW40A-031122 | 1158746 | 5.47    | 904196 | 8.31   | 465699 | 10.70 |
| 240-163634-13    | MSA-SW40B-031122 | 1127113 | 5.47    | 886172 | 8.31   | 458363 | 10.70 |
| 240-163634-14    | MSA-SW40C-031122 | 1152062 | 5.47    | 896359 | 8.31   | 467317 | 10.70 |
| 240-163634-15    | MSA-SW40D-031122 | 1134717 | 5.47    | 892178 | 8.31   | 458762 | 10.70 |
| 240-163634-16    | MSA-SW41A-031122 | 1149556 | 5.47    | 911207 | 8.31   | 473302 | 10.70 |

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

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

RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Sample No.: CCVIS 240-520730/3 Date Analyzed: 03/24/2022 10:34  
 Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): UX000779.D Heated Purge: (Y/N) N  
 Calibration ID: 64952

|                   | FB               |         | CBNZd5  |        | DCBd4  |        |       |
|-------------------|------------------|---------|---------|--------|--------|--------|-------|
|                   | AREA #           | RT #    | AREA #  | RT #   | AREA # | RT #   |       |
| 12/24 HOUR STD    | 1240650          | 5.47    | 948886  | 8.31   | 497825 | 10.70  |       |
| UPPER LIMIT       | 2481300          | 5.97    | 1897772 | 8.81   | 995650 | 11.20  |       |
| LOWER LIMIT       | 620325           | 4.97    | 474443  | 7.81   | 248913 | 10.20  |       |
| LAB SAMPLE ID     | CLIENT SAMPLE ID |         |         |        |        |        |       |
| CCV 240-520730/4  |                  | 1256470 | 5.47    | 960240 | 8.31   | 485357 | 10.70 |
| LCS 240-520730/5  |                  | 1246044 | 5.47    | 969623 | 8.31   | 499083 | 10.70 |
| LCSD 240-520730/6 |                  | 1269254 | 5.47    | 989427 | 8.31   | 510083 | 10.70 |
| MB 240-520730/9   |                  | 1183014 | 5.47    | 928988 | 8.31   | 477312 | 10.70 |
| 240-163634-4      | MSA-SW37A-031122 | 1198190 | 5.47    | 940227 | 8.31   | 482174 | 10.70 |
| 240-163634-5      | MSA-SW37B-031122 | 1178137 | 5.47    | 924566 | 8.31   | 480400 | 10.70 |
| 240-163634-17     | MSA-SW41B-031122 | 1206398 | 5.47    | 956103 | 8.31   | 488157 | 10.70 |
| 240-163634-18     | MSA-SW41C-031122 | 1201414 | 5.47    | 943886 | 8.31   | 491282 | 10.70 |
| 240-163634-19     | MSA-SW41D-031122 | 1183445 | 5.47    | 931992 | 8.31   | 474733 | 10.70 |
| 240-163634-20     | MSA-SW42A-031122 | 1196235 | 5.47    | 942283 | 8.31   | 489479 | 10.70 |
| 240-163634-21     | MSA-SW42B-031122 | 1205241 | 5.47    | 951909 | 8.31   | 492486 | 10.70 |
| 240-163634-22     | MSA-SW42C-031122 | 1176265 | 5.47    | 927975 | 8.31   | 484661 | 10.70 |
| 240-163634-23     | MSA-SW42D-031122 | 1175682 | 5.47    | 928520 | 8.31   | 483735 | 10.70 |
| 240-163634-24     | MSA-SW43A-031122 | 1153917 | 5.47    | 907041 | 8.31   | 476423 | 10.70 |
| 240-163634-25     | MSA-SW43B-031122 | 1163877 | 5.47    | 928001 | 8.31   | 484976 | 10.70 |
| 240-163634-26     | MSA-SW43C-031122 | 1163510 | 5.47    | 922579 | 8.31   | 475443 | 10.70 |
| 240-163634-27     | MSA-SW43D-031122 | 1167335 | 5.48    | 925827 | 8.31   | 485560 | 10.70 |
| 240-163634-28     | TB-031122        | 1173985 | 5.47    | 935757 | 8.31   | 482890 | 10.70 |
| 240-163634-29     | MSA-SW46A-031122 | 1146541 | 5.47    | 913306 | 8.31   | 475926 | 10.70 |
| 240-163634-30     | MSA-SW47A-031122 | 1180436 | 5.47    | 928982 | 8.31   | 480866 | 10.70 |
| 240-163634-31     | MSA-SW48A-031122 | 1176652 | 5.47    | 928434 | 8.31   | 477050 | 10.70 |
| 240-163634-32     | MSA-SW49A-031122 | 1176821 | 5.47    | 937933 | 8.31   | 483423 | 10.70 |
| 240-163634-33     | MSA-SWEQB-031122 | 1165630 | 5.47    | 924048 | 8.31   | 473037 | 10.70 |

FB = Fluorobenzene  
 CBNZd5 = Chlorobenzene-d5  
 DCBd4 = 1,4-Dichlorobenzene-d4

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

# Column used to flag values outside QC limits

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab File ID: UX000753.D Lab Sample ID: MB 240-520596/8  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: A3UX9 Date Analyzed: 03/23/2022 11:52  
 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 240-520596/5 | UX000750.D  | 03/23/2022 10:38 |
| MSA-SW37C-031122 | 240-163634-6     | UX000764.D  | 03/23/2022 16:22 |
| MSA-SW37D-031122 | 240-163634-7     | UX000765.D  | 03/23/2022 16:46 |
| MSA-SW38A-031122 | 240-163634-8     | UX000766.D  | 03/23/2022 17:11 |
| MSA-SW38B-031122 | 240-163634-9     | UX000767.D  | 03/23/2022 17:35 |
| MSA-SW38C-031122 | 240-163634-10    | UX000768.D  | 03/23/2022 17:59 |
| MSA-SW38D-031122 | 240-163634-11    | UX000769.D  | 03/23/2022 18:24 |
| MSA-SW40A-031122 | 240-163634-12    | UX000770.D  | 03/23/2022 18:48 |
| MSA-SW40B-031122 | 240-163634-13    | UX000771.D  | 03/23/2022 19:13 |
| MSA-SW40C-031122 | 240-163634-14    | UX000772.D  | 03/23/2022 19:37 |
| MSA-SW40D-031122 | 240-163634-15    | UX000773.D  | 03/23/2022 20:02 |
| MSA-SW41A-031122 | 240-163634-16    | UX000774.D  | 03/23/2022 20:26 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520596/8  
 Matrix: Water Lab File ID: UX000753.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 11:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520596/8  
 Matrix: Water Lab File ID: UX000753.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 11:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520596/8  
 Matrix: Water Lab File ID: UX000753.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 11:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 104  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 97   |   | 78-122 |



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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520596/8  
 Matrix: Water Lab File ID: UX000753.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 11:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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 III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Matrix: Water Level: Low Lab File ID: UX000750.D  
 Lab ID: LCS 240-520596/5 Client ID: \_\_\_\_\_

| COMPOUND                    | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-----------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Acetone                     | 40.0                     | 40.7                           | 102             | 50-149              |   |
| Benzene                     | 20.0                     | 22.6                           | 113             | 77-123              |   |
| Bromobenzene                | 20.0                     | 22.4                           | 112             | 80-122              |   |
| Bromochloromethane          | 20.0                     | 22.7                           | 113             | 71-121              |   |
| Bromodichloromethane        | 20.0                     | 22.6                           | 113             | 69-126              |   |
| Bromoform                   | 20.0                     | 21.4                           | 107             | 57-129              |   |
| Bromomethane                | 20.0                     | 19.6                           | 98              | 36-142              |   |
| 2-Butanone                  | 40.0                     | 41.3                           | 103             | 54-156              |   |
| Carbon disulfide            | 20.0                     | 23.8                           | 119             | 43-140              |   |
| Carbon tetrachloride        | 20.0                     | 22.1                           | 111             | 55-137              |   |
| Chlorobenzene               | 20.0                     | 22.0                           | 110             | 80-121              |   |
| Chloroethane                | 20.0                     | 20.3                           | 101             | 38-152              |   |
| 2-Chloroethyl vinyl ether   | 20.0                     | 22.9                           | 114             | 40-157              |   |
| Chloroform                  | 20.0                     | 22.3                           | 112             | 74-122              |   |
| Chloromethane               | 20.0                     | 20.5                           | 103             | 47-143              |   |
| 2-Chlorotoluene             | 20.0                     | 22.6                           | 113             | 79-124              |   |
| 4-Chlorotoluene             | 20.0                     | 22.8                           | 114             | 80-125              |   |
| cis-1,2-Dichloroethene      | 20.0                     | 22.5                           | 112             | 77-123              |   |
| cis-1,3-Dichloropropene     | 20.0                     | 22.3                           | 111             | 64-130              |   |
| Dibromochloromethane        | 20.0                     | 21.6                           | 108             | 70-124              |   |
| 1,2-Dibromo-3-Chloropropane | 20.0                     | 20.5                           | 103             | 53-135              |   |
| 1,2-Dibromoethane           | 20.0                     | 22.0                           | 110             | 71-134              |   |
| Dibromomethane              | 20.0                     | 22.7                           | 114             | 67-131              |   |
| 1,2-Dichlorobenzene         | 20.0                     | 22.6                           | 113             | 78-120              |   |
| 1,3-Dichlorobenzene         | 20.0                     | 22.4                           | 112             | 80-120              |   |
| 1,4-Dichlorobenzene         | 20.0                     | 22.6                           | 113             | 80-120              |   |
| Dichlorodifluoromethane     | 20.0                     | 22.4                           | 112             | 34-153              |   |
| 1,1-Dichloroethane          | 20.0                     | 22.1                           | 111             | 72-127              |   |
| 1,2-Dichloroethane          | 20.0                     | 22.4                           | 112             | 66-128              |   |
| 1,1-Dichloroethene          | 20.0                     | 23.7                           | 118             | 63-134              |   |
| 1,2-Dichloropropane         | 20.0                     | 22.7                           | 113             | 75-133              |   |
| 1,3-Dichloropropane         | 20.0                     | 22.3                           | 111             | 68-139              |   |
| 2,2-Dichloropropane         | 20.0                     | 22.5                           | 112             | 48-142              |   |
| 1,1-Dichloropropene         | 20.0                     | 22.4                           | 112             | 71-124              |   |
| Ethylbenzene                | 20.0                     | 22.6                           | 113             | 80-121              |   |
| Hexachlorobutadiene         | 20.0                     | 22.1                           | 111             | 37-162              |   |
| 2-Hexanone                  | 40.0                     | 43.0                           | 107             | 43-167              |   |
| Isopropylbenzene            | 20.0                     | 22.3                           | 111             | 74-128              |   |
| Methylene Chloride          | 20.0                     | 22.1                           | 111             | 71-125              |   |
| 4-Methyl-2-pentanone        | 40.0                     | 43.7                           | 109             | 46-158              |   |
| Methyl tert-butyl ether     | 20.0                     | 22.9                           | 114             | 65-126              |   |
| m-Xylene & p-Xylene         | 20.0                     | 22.0                           | 110             | 80-120              |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Matrix: Water Level: Low Lab File ID: UX000750.D  
 Lab ID: LCS 240-520596/5 Client ID: \_\_\_\_\_

| COMPOUND                                | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---|--------------------------|--------------------------------|-----------------|---------------------|---|
| Naphthalene                             | 20.0                     | 21.7                           | 108             | 53-138              |   |
| n-Butylbenzene                          | 20.0                     | 22.4                           | 112             | 62-139              |   |
| n-Propylbenzene                         | 20.0                     | 22.5                           | 113             | 76-127              |   |
| o-Xylene                                | 20.0                     | 22.4                           | 112             | 80-123              |   |
| p-Isopropyltoluene                      | 20.0                     | 22.7                           | 113             | 71-132              |   |
| sec-Butylbenzene                        | 20.0                     | 22.9                           | 114             | 69-135              |   |
| Styrene                                 | 20.0                     | 22.5                           | 112             | 80-135              |   |
| tert-Butyl alcohol                      | 200                      | 188                            | 94              | 33-153              |   |
| tert-Butylbenzene                       | 20.0                     | 22.3                           | 111             | 64-134              |   |
| 1,1,1,2-Tetrachloroethane               | 20.0                     | 22.3                           | 112             | 71-124              |   |
| 1,1,2,2-Tetrachloroethane               | 20.0                     | 22.7                           | 113             | 58-157              |   |
| Tetrachloroethene                       | 20.0                     | 22.9                           | 115             | 76-123              |   |
| Toluene                                 | 20.0                     | 21.7                           | 108             | 80-123              |   |
| trans-1,2-Dichloroethene                | 20.0                     | 22.1                           | 111             | 75-124              |   |
| trans-1,3-Dichloropropene               | 20.0                     | 22.3                           | 111             | 57-129              |   |
| 1,2,3-Trichlorobenzene                  | 20.0                     | 21.7                           | 109             | 45-149              |   |
| 1,2,4-Trichlorobenzene                  | 20.0                     | 22.1                           | 110             | 44-147              |   |
| 1,1,1-Trichloroethane                   | 20.0                     | 22.3                           | 111             | 64-131              |   |
| Trichloroethene                         | 20.0                     | 22.2                           | 111             | 70-122              |   |
| Trichlorofluoromethane                  | 20.0                     | 21.1                           | 106             | 30-170              |   |
| 1,2,3-Trichloropropane                  | 20.0                     | 21.5                           | 107             | 57-150              |   |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 20.0                     | 24.1                           | 120             | 51-146              |   |
| 1,2,4-Trimethylbenzene                  | 20.0                     | 22.6                           | 113             | 77-129              |   |
| Vinyl acetate                           | 20.0                     | 26.3                           | 131             | 44-145              |   |
| Vinyl chloride                          | 20.0                     | 21.2                           | 106             | 60-144              |   |
| Xylenes, Total                          | 40.0                     | 44.4                           | 111             | 80-121              |   |

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab File ID: UX000785.D Lab Sample ID: MB 240-520730/9  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: A3UX9 Date Analyzed: 03/24/2022 13:01  
 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 240-520730/5  | UX000781.D  | 03/24/2022 11:23 |
|                  | LCSD 240-520730/6 | UX000782.D  | 03/24/2022 11:48 |
| MSA-SW37A-031122 | 240-163634-4      | UX000787.D  | 03/24/2022 13:50 |
| MSA-SW37B-031122 | 240-163634-5      | UX000788.D  | 03/24/2022 14:15 |
| MSA-SW41B-031122 | 240-163634-17     | UX000789.D  | 03/24/2022 14:39 |
| MSA-SW41C-031122 | 240-163634-18     | UX000790.D  | 03/24/2022 15:04 |
| MSA-SW41D-031122 | 240-163634-19     | UX000791.D  | 03/24/2022 15:28 |
| MSA-SW42A-031122 | 240-163634-20     | UX000792.D  | 03/24/2022 15:53 |
| MSA-SW42B-031122 | 240-163634-21     | UX000793.D  | 03/24/2022 16:17 |
| MSA-SW42C-031122 | 240-163634-22     | UX000794.D  | 03/24/2022 16:42 |
| MSA-SW42D-031122 | 240-163634-23     | UX000795.D  | 03/24/2022 17:06 |
| MSA-SW43A-031122 | 240-163634-24     | UX000796.D  | 03/24/2022 17:31 |
| MSA-SW43B-031122 | 240-163634-25     | UX000797.D  | 03/24/2022 17:55 |
| MSA-SW43C-031122 | 240-163634-26     | UX000798.D  | 03/24/2022 18:20 |
| MSA-SW43D-031122 | 240-163634-27     | UX000799.D  | 03/24/2022 18:44 |
| TB-031122        | 240-163634-28     | UX000800.D  | 03/24/2022 19:09 |
| MSA-SW46A-031122 | 240-163634-29     | UX000801.D  | 03/24/2022 19:33 |
| MSA-SW47A-031122 | 240-163634-30     | UX000802.D  | 03/24/2022 19:58 |
| MSA-SW48A-031122 | 240-163634-31     | UX000803.D  | 03/24/2022 20:22 |
| MSA-SW49A-031122 | 240-163634-32     | UX000804.D  | 03/24/2022 20:47 |
| MSA-SWEQB-031122 | 240-163634-33     | UX000805.D  | 03/24/2022 21:11 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520730/9  
 Matrix: Water Lab File ID: UX000785.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:01  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520730/9  
 Matrix: Water Lab File ID: UX000785.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:01  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520730/9  
 Matrix: Water Lab File ID: UX000785.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:01  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 98   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520730/9  
 Matrix: Water Lab File ID: UX000785.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:01  
 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.: 520730 Units: ug/L  
 Number TICs Found: 1 TIC Result Total: 0.524

| CAS NO.  | COMPOUND NAME                   | RT   | RESULT | Q | MATCH QUALITY |
|----------|---------------------------------|------|--------|---|---------------|
|          | Tentatively Identified Compound |      | None   |   |               |
| 109-99-9 | Tetrahydrofuran                 | 4.71 | 0.524  | J | 86%           |



FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Matrix: Water Level: Low Lab File ID: UX000781.D  
 Lab ID: LCS 240-520730/5 Client ID: \_\_\_\_\_

| COMPOUND                    | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-----------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Acetone                     | 40.0                     | 33.7                           | 84              | 50-149              |   |
| Benzene                     | 20.0                     | 19.0                           | 95              | 77-123              |   |
| Bromobenzene                | 20.0                     | 18.8                           | 94              | 80-122              |   |
| Bromochloromethane          | 20.0                     | 19.2                           | 96              | 71-121              |   |
| Bromodichloromethane        | 20.0                     | 18.7                           | 93              | 69-126              |   |
| Bromoform                   | 20.0                     | 17.1                           | 86              | 57-129              |   |
| Bromomethane                | 20.0                     | 17.1                           | 86              | 36-142              |   |
| 2-Butanone                  | 40.0                     | 35.2                           | 88              | 54-156              |   |
| Carbon disulfide            | 20.0                     | 20.2                           | 101             | 43-140              |   |
| Carbon tetrachloride        | 20.0                     | 18.4                           | 92              | 55-137              |   |
| Chlorobenzene               | 20.0                     | 18.5                           | 92              | 80-121              |   |
| Chloroethane                | 20.0                     | 18.3                           | 91              | 38-152              |   |
| 2-Chloroethyl vinyl ether   | 20.0                     | 19.0                           | 95              | 40-157              |   |
| Chloroform                  | 20.0                     | 18.8                           | 94              | 74-122              |   |
| Chloromethane               | 20.0                     | 18.0                           | 90              | 47-143              |   |
| 2-Chlorotoluene             | 20.0                     | 19.1                           | 96              | 79-124              |   |
| 4-Chlorotoluene             | 20.0                     | 19.2                           | 96              | 80-125              |   |
| cis-1,2-Dichloroethene      | 20.0                     | 19.3                           | 96              | 77-123              |   |
| cis-1,3-Dichloropropene     | 20.0                     | 18.5                           | 93              | 64-130              |   |
| Dibromochloromethane        | 20.0                     | 17.5                           | 87              | 70-124              |   |
| 1,2-Dibromo-3-Chloropropane | 20.0                     | 16.8                           | 84              | 53-135              |   |
| 1,2-Dibromoethane           | 20.0                     | 18.2                           | 91              | 71-134              |   |
| Dibromomethane              | 20.0                     | 19.0                           | 95              | 67-131              |   |
| 1,2-Dichlorobenzene         | 20.0                     | 19.0                           | 95              | 78-120              |   |
| 1,3-Dichlorobenzene         | 20.0                     | 19.0                           | 95              | 80-120              |   |
| 1,4-Dichlorobenzene         | 20.0                     | 18.9                           | 95              | 80-120              |   |
| Dichlorodifluoromethane     | 20.0                     | 19.2                           | 96              | 34-153              |   |
| 1,1-Dichloroethane          | 20.0                     | 18.6                           | 93              | 72-127              |   |
| 1,2-Dichloroethane          | 20.0                     | 18.8                           | 94              | 66-128              |   |
| 1,1-Dichloroethene          | 20.0                     | 20.1                           | 100             | 63-134              |   |
| 1,2-Dichloropropane         | 20.0                     | 18.9                           | 95              | 75-133              |   |
| 1,3-Dichloropropane         | 20.0                     | 18.4                           | 92              | 68-139              |   |
| 2,2-Dichloropropane         | 20.0                     | 19.0                           | 95              | 48-142              |   |
| 1,1-Dichloropropene         | 20.0                     | 19.0                           | 95              | 71-124              |   |
| Ethylbenzene                | 20.0                     | 18.8                           | 94              | 80-121              |   |
| Hexachlorobutadiene         | 20.0                     | 18.8                           | 94              | 37-162              |   |
| 2-Hexanone                  | 40.0                     | 36.4                           | 91              | 43-167              |   |
| Isopropylbenzene            | 20.0                     | 18.5                           | 93              | 74-128              |   |
| Methylene Chloride          | 20.0                     | 18.6                           | 93              | 71-125              |   |
| 4-Methyl-2-pentanone        | 40.0                     | 37.2                           | 93              | 46-158              |   |
| Methyl tert-butyl ether     | 20.0                     | 19.0                           | 95              | 65-126              |   |
| m-Xylene & p-Xylene         | 20.0                     | 18.3                           | 92              | 80-120              |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Matrix: Water Level: Low Lab File ID: UX000781.D  
 Lab ID: LCS 240-520730/5 Client ID: \_\_\_\_\_

| COMPOUND                                | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---|--------------------------|--------------------------------|-----------------|---------------------|---|
| Naphthalene                             | 20.0                     | 18.3                           | 91              | 53-138              |   |
| n-Butylbenzene                          | 20.0                     | 19.1                           | 95              | 62-139              |   |
| n-Propylbenzene                         | 20.0                     | 18.7                           | 94              | 76-127              |   |
| o-Xylene                                | 20.0                     | 18.6                           | 93              | 80-123              |   |
| p-Isopropyltoluene                      | 20.0                     | 19.2                           | 96              | 71-132              |   |
| sec-Butylbenzene                        | 20.0                     | 19.4                           | 97              | 69-135              |   |
| Styrene                                 | 20.0                     | 18.6                           | 93              | 80-135              |   |
| tert-Butyl alcohol                      | 200                      | 173                            | 86              | 33-153              |   |
| tert-Butylbenzene                       | 20.0                     | 19.0                           | 95              | 64-134              |   |
| 1,1,1,2-Tetrachloroethane               | 20.0                     | 18.4                           | 92              | 71-124              |   |
| 1,1,2,2-Tetrachloroethane               | 20.0                     | 19.1                           | 96              | 58-157              |   |
| Tetrachloroethene                       | 20.0                     | 18.9                           | 94              | 76-123              |   |
| Toluene                                 | 20.0                     | 18.2                           | 91              | 80-123              |   |
| trans-1,2-Dichloroethene                | 20.0                     | 19.2                           | 96              | 75-124              |   |
| trans-1,3-Dichloropropene               | 20.0                     | 18.3                           | 92              | 57-129              |   |
| 1,2,3-Trichlorobenzene                  | 20.0                     | 18.2                           | 91              | 45-149              |   |
| 1,2,4-Trichlorobenzene                  | 20.0                     | 18.3                           | 91              | 44-147              |   |
| 1,1,1-Trichloroethane                   | 20.0                     | 18.8                           | 94              | 64-131              |   |
| Trichloroethene                         | 20.0                     | 18.7                           | 94              | 70-122              |   |
| Trichlorofluoromethane                  | 20.0                     | 18.6                           | 93              | 30-170              |   |
| 1,2,3-Trichloropropane                  | 20.0                     | 18.2                           | 91              | 57-150              |   |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 20.0                     | 20.6                           | 103             | 51-146              |   |
| 1,2,4-Trimethylbenzene                  | 20.0                     | 19.1                           | 95              | 77-129              |   |
| Vinyl acetate                           | 20.0                     | 21.3                           | 106             | 44-145              |   |
| Vinyl chloride                          | 20.0                     | 18.4                           | 92              | 60-144              |   |
| Xylenes, Total                          | 40.0                     | 36.9                           | 92              | 80-121              |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Matrix: Water Level: Low

Lab File ID: UX000782.D

Lab ID: LCSD 240-520730/6

Client ID:

| COMPOUND                    | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC | % RPD | QC LIMITS |        | # |
|-----------------------------|--------------------|---------------------------|------------|-------|-----------|--------|---|
|                             |                    |                           |            |       | RPD       | REC    |   |
| Acetone                     | 40.0               | 35.6                      | 89         | 5     | 35        | 50-149 |   |
| Benzene                     | 20.0               | 20.1                      | 101        | 6     | 35        | 77-123 |   |
| Bromobenzene                | 20.0               | 19.8                      | 99         | 5     | 35        | 80-122 |   |
| Bromochloromethane          | 20.0               | 20.8                      | 104        | 8     | 35        | 71-121 |   |
| Bromodichloromethane        | 20.0               | 19.9                      | 100        | 6     | 35        | 69-126 |   |
| Bromoform                   | 20.0               | 17.9                      | 90         | 5     | 35        | 57-129 |   |
| Bromomethane                | 20.0               | 18.7                      | 94         | 9     | 35        | 36-142 |   |
| 2-Butanone                  | 40.0               | 37.1                      | 93         | 5     | 35        | 54-156 |   |
| Carbon disulfide            | 20.0               | 21.1                      | 105        | 4     | 35        | 43-140 |   |
| Carbon tetrachloride        | 20.0               | 19.0                      | 95         | 3     | 35        | 55-137 |   |
| Chlorobenzene               | 20.0               | 19.4                      | 97         | 5     | 35        | 80-121 |   |
| Chloroethane                | 20.0               | 19.4                      | 97         | 6     | 35        | 38-152 |   |
| 2-Chloroethyl vinyl ether   | 20.0               | 20.1                      | 100        | 6     | 35        | 40-157 |   |
| Chloroform                  | 20.0               | 19.7                      | 98         | 5     | 35        | 74-122 |   |
| Chloromethane               | 20.0               | 19.3                      | 97         | 7     | 35        | 47-143 |   |
| 2-Chlorotoluene             | 20.0               | 20.1                      | 101        | 5     | 35        | 79-124 |   |
| 4-Chlorotoluene             | 20.0               | 19.9                      | 100        | 4     | 35        | 80-125 |   |
| cis-1,2-Dichloroethene      | 20.0               | 20.1                      | 100        | 4     | 35        | 77-123 |   |
| cis-1,3-Dichloropropene     | 20.0               | 19.6                      | 98         | 6     | 35        | 64-130 |   |
| Dibromochloromethane        | 20.0               | 18.5                      | 92         | 6     | 35        | 70-124 |   |
| 1,2-Dibromo-3-Chloropropane | 20.0               | 17.7                      | 89         | 5     | 35        | 53-135 |   |
| 1,2-Dibromoethane           | 20.0               | 19.0                      | 95         | 4     | 35        | 71-134 |   |
| Dibromomethane              | 20.0               | 19.7                      | 98         | 4     | 35        | 67-131 |   |
| 1,2-Dichlorobenzene         | 20.0               | 20.2                      | 101        | 6     | 35        | 78-120 |   |
| 1,3-Dichlorobenzene         | 20.0               | 19.9                      | 99         | 5     | 35        | 80-120 |   |
| 1,4-Dichlorobenzene         | 20.0               | 19.9                      | 100        | 5     | 35        | 80-120 |   |
| Dichlorodifluoromethane     | 20.0               | 19.8                      | 99         | 3     | 35        | 34-153 |   |
| 1,1-Dichloroethane          | 20.0               | 19.9                      | 100        | 7     | 35        | 72-127 |   |
| 1,2-Dichloroethane          | 20.0               | 20.0                      | 100        | 6     | 35        | 66-128 |   |
| 1,1-Dichloroethene          | 20.0               | 20.8                      | 104        | 3     | 35        | 63-134 |   |
| 1,2-Dichloropropane         | 20.0               | 20.1                      | 101        | 6     | 35        | 75-133 |   |
| 1,3-Dichloropropane         | 20.0               | 19.4                      | 97         | 5     | 35        | 68-139 |   |
| 2,2-Dichloropropane         | 20.0               | 19.9                      | 100        | 4     | 35        | 48-142 |   |
| 1,1-Dichloropropene         | 20.0               | 19.9                      | 99         | 4     | 35        | 71-124 |   |
| Ethylbenzene                | 20.0               | 19.7                      | 98         | 5     | 35        | 80-121 |   |
| Hexachlorobutadiene         | 20.0               | 19.5                      | 97         | 3     | 35        | 37-162 |   |
| 2-Hexanone                  | 40.0               | 38.4                      | 96         | 5     | 35        | 43-167 |   |
| Isopropylbenzene            | 20.0               | 19.5                      | 97         | 5     | 35        | 74-128 |   |
| Methylene Chloride          | 20.0               | 19.7                      | 98         | 6     | 35        | 71-125 |   |
| 4-Methyl-2-pentanone        | 40.0               | 38.8                      | 97         | 4     | 35        | 46-158 |   |
| Methyl tert-butyl ether     | 20.0               | 20.3                      | 101        | 7     | 35        | 65-126 |   |
| m-Xylene & p-Xylene         | 20.0               | 19.3                      | 96         | 5     | 35        | 80-120 |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Matrix: Water Level: Low Lab File ID: UX000782.D  
 Lab ID: LCSD 240-520730/6 Client ID: \_\_\_\_\_

| COMPOUND                                | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC | % RPD | QC LIMITS |        | # |
|---|--------------------|---------------------------|------------|-------|-----------|--------|---|
|   |                    |                           |            |       | RPD       | REC    |   |
| Naphthalene                             | 20.0               | 19.5                      | 97         | 6     | 35        | 53-138 |   |
| n-Butylbenzene                          | 20.0               | 19.9                      | 99         | 4     | 35        | 62-139 |   |
| n-Propylbenzene                         | 20.0               | 20.1                      | 100        | 7     | 35        | 76-127 |   |
| o-Xylene                                | 20.0               | 19.6                      | 98         | 5     | 35        | 80-123 |   |
| p-Isopropyltoluene                      | 20.0               | 20.0                      | 100        | 4     | 35        | 71-132 |   |
| sec-Butylbenzene                        | 20.0               | 20.2                      | 101        | 4     | 35        | 69-135 |   |
| Styrene                                 | 20.0               | 19.5                      | 98         | 5     | 35        | 80-135 |   |
| tert-Butyl alcohol                      | 200                | 185                       | 93         | 7     | 35        | 33-153 |   |
| tert-Butylbenzene                       | 20.0               | 19.9                      | 99         | 4     | 35        | 64-134 |   |
| 1,1,1,2-Tetrachloroethane               | 20.0               | 19.1                      | 96         | 4     | 35        | 71-124 |   |
| 1,1,2,2-Tetrachloroethane               | 20.0               | 19.9                      | 100        | 4     | 35        | 58-157 |   |
| Tetrachloroethene                       | 20.0               | 19.8                      | 99         | 5     | 35        | 76-123 |   |
| Toluene                                 | 20.0               | 18.8                      | 94         | 4     | 35        | 80-123 |   |
| trans-1,2-Dichloroethene                | 20.0               | 20.1                      | 100        | 5     | 35        | 75-124 |   |
| trans-1,3-Dichloropropene               | 20.0               | 19.2                      | 96         | 5     | 35        | 57-129 |   |
| 1,2,3-Trichlorobenzene                  | 20.0               | 19.4                      | 97         | 6     | 35        | 45-149 |   |
| 1,2,4-Trichlorobenzene                  | 20.0               | 19.5                      | 97         | 6     | 35        | 44-147 |   |
| 1,1,1-Trichloroethane                   | 20.0               | 19.7                      | 98         | 5     | 35        | 64-131 |   |
| Trichloroethene                         | 20.0               | 19.8                      | 99         | 5     | 35        | 70-122 |   |
| Trichlorofluoromethane                  | 20.0               | 19.4                      | 97         | 4     | 35        | 30-170 |   |
| 1,2,3-Trichloropropane                  | 20.0               | 19.1                      | 95         | 5     | 35        | 57-150 |   |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 20.0               | 20.9                      | 105        | 2     | 35        | 51-146 |   |
| 1,2,4-Trimethylbenzene                  | 20.0               | 20.2                      | 101        | 6     | 35        | 77-129 |   |
| Vinyl acetate                           | 20.0               | 22.1                      | 111        | 4     | 35        | 44-145 |   |
| Vinyl chloride                          | 20.0               | 19.6                      | 98         | 7     | 35        | 60-144 |   |
| Xylenes, Total                          | 40.0               | 38.9                      | 97         | 5     | 35        | 80-121 |   |

# Column to be used to flag recovery and RPD values

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab File ID: BFB1493.D BFB Injection Date: 03/21/2022  
 Instrument ID: A3UX9 BFB Injection Time: 15:34  
 Analysis Batch No.: 520426

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 20.0                 |
| 75  | 30.0 - 60.0 % of mass 95           | 49.7                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.4                  |
| 173 | Less than 2.0 % of mass 174        | 0.0 (0.0) 1          |
| 174 | Greater than 50% of mass 95        | 73.4                 |
| 175 | 5.0 - 9.0 % of mass 174            | 5.7 (7.8) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 71.9 (98.0) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 4.2 (5.9) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID         | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|-----------------------|-------------|---------------|---------------|
|                  | STD8260 240-520426/8  | UX000684.D  | 03/21/2022    | 16:23         |
|                  | STD8260 240-520426/9  | UX000685.D  | 03/21/2022    | 16:48         |
|                  | STD8260 240-520426/10 | UX000686.D  | 03/21/2022    | 17:12         |
|                  | ICIS 240-520426/11    | UX000687.D  | 03/21/2022    | 17:37         |
|                  | STD8260 240-520426/12 | UX000688.D  | 03/21/2022    | 18:01         |
|                  | STD8260 240-520426/13 | UX000689.D  | 03/21/2022    | 18:25         |
|                  | STD8260 240-520426/14 | UX000690.D  | 03/21/2022    | 18:50         |
|                  | ICV 240-520426/15     | UX000691.D  | 03/21/2022    | 19:14         |
|                  | STDA9 240-520426/18   | UX000694.D  | 03/21/2022    | 20:28         |
|                  | STDA9 240-520426/19   | UX000695.D  | 03/21/2022    | 20:52         |
|                  | STDA9 240-520426/20   | UX000696.D  | 03/21/2022    | 21:17         |
|                  | STDA9 240-520426/21   | UX000697.D  | 03/21/2022    | 21:41         |
|                  | STDA9 240-520426/22   | UX000698.D  | 03/21/2022    | 22:06         |
|                  | STDA9 240-520426/23   | UX000699.D  | 03/21/2022    | 22:30         |
|                  | ICV 240-520426/24     | UX000700.D  | 03/21/2022    | 22:54         |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

Calibration Files

| LEVEL:  | LAB SAMPLE ID:        | LAB FILE ID: |
|---------|-----------------------|--------------|
| Level 1 | STD8260 240-520426/8  | UX000684.D   |
| Level 2 | STD8260 240-520426/9  | UX000685.D   |
| Level 3 | STD8260 240-520426/10 | UX000686.D   |
| Level 4 | ICIS 240-520426/11    | UX000687.D   |
| Level 5 | STD8260 240-520426/12 | UX000688.D   |
| Level 6 | STD8260 240-520426/13 | UX000689.D   |
| Level 7 | STD8260 240-520426/14 | UX000690.D   |

| ANALYTE                                     | RRF              |                  |        |        |        | CURVE TYPE | COEFFICIENT |            |    | #      | MIN RRF | %RSD | #    | MAX %RSD | R^2 OR COD | #      | MIN R^2 OR COD |
|---|------------------|------------------|--------|--------|--------|------------|-------------|------------|----|--------|---------|------|------|----------|------------|--------|----------------|
|   | LVL 1            | LVL 2            | LVL 3  | LVL 4  | LVL 5  |            | B           | M1         | M2 |        |         |      |      |          |            |        |                |
|   | LVL 6            | LVL 7            |        |        |        |            |             |            |    |        |         |      |      |          |            |        |                |
| Dichlorodifluoromethane                     | 0.2940<br>0.3023 | 0.2828<br>0.2999 | 0.3055 | 0.3017 | 0.2981 | Ave        | 0.297<br>8  |            |    | 0.1000 | 2.5     |      | 20.0 |          |            |        |                |
| Chloromethane                               | 0.3229<br>0.3265 | 0.3099<br>0.3167 | 0.3210 | 0.3216 | 0.3088 | Ave        | 0.318<br>2  |            |    | 0.1000 | 2.1     |      | 20.0 |          |            |        |                |
| Vinyl chloride                              | 0.3273<br>0.3350 | 0.2991<br>0.3271 | 0.3309 | 0.3343 | 0.3223 | Ave        | 0.325<br>1  |            |    | 0.1000 | 3.8     |      | 20.0 |          |            |        |                |
| Butadiene                                   | 0.2915<br>0.3105 | 0.2844<br>0.2939 | 0.3009 | 0.2978 | 0.3008 | Ave        | 0.297<br>1  |            |    |        | 2.8     |      | 20.0 |          |            |        |                |
| Bromomethane                                | 0.2750<br>0.2397 | 0.2201<br>0.2344 | 0.2093 | 0.2095 | 0.2146 | Ave        | 0.229<br>0  |            |    | 0.0500 | 10.3    |      | 20.0 |          |            |        |                |
| Chloroethane                                | 0.1897<br>0.2342 | 0.1985<br>0.2351 | 0.2183 | 0.2206 | 0.2165 | Ave        | 0.216<br>1  |            |    | 0.0500 | 7.8     |      | 20.0 |          |            |        |                |
| Trichlorofluoromethane                      | 0.3563<br>0.4340 | 0.3903<br>0.4318 | 0.4262 | 0.4263 | 0.4255 | Ave        | 0.412<br>9  |            |    | 0.1000 | 7.0     |      | 20.0 |          |            |        |                |
| Dichlorofluoromethane                       | 0.5862<br>0.5145 | 0.5295<br>0.5065 | 0.5056 | 0.5053 | 0.4916 | Ave        | 0.519<br>9  |            |    |        | 6.0     |      | 20.0 |          |            |        |                |
| Ethyl ether                                 | 0.1948<br>0.2087 | 0.1903<br>0.2085 | 0.2086 | 0.2067 | 0.1970 | Ave        | 0.202<br>1  |            |    |        | 3.9     |      | 20.0 |          |            |        |                |
| 1,1,2-Trichloro-1,2,2-trichfluoroe<br>thane | 0.2023<br>0.2379 | 0.2193<br>0.2310 | 0.2346 | 0.2310 | 0.2286 | Ave        | 0.226<br>4  |            |    | 0.0500 | 5.4     |      | 20.0 |          |            |        |                |
| Acrolein                                    | 0.0694<br>0.0700 | 0.0709<br>0.0676 | 0.0684 | 0.0664 | 0.0649 | Ave        | 0.068<br>2  |            |    |        | 3.1     |      | 20.0 |          |            |        |                |
| 1,1-Dichloroethene                          | 0.3574<br>0.3739 | 0.3437<br>0.3615 | 0.3697 | 0.3674 | 0.3590 | Ave        | 0.361<br>8  |            |    | 0.1000 | 2.8     |      | 20.0 |          |            |        |                |
| Acetone                                     | 0.1262<br>0.0442 | 0.0827<br>0.0428 | 0.0440 | 0.0424 | 0.0413 | Lin1       | 0.082<br>1  | 0.041<br>6 |    | 0.0100 | 4.4     |      |      | 0.9990   |            | 0.9900 |                |

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: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                  | RRF              |                  |        |        |        | CURVE TYPE | COEFFICIENT |            |    | #      | MIN RRF | %RSD | #    | MAX %RSD | R <sup>2</sup> OR COD | # | MIN R <sup>2</sup> OR COD |
|--------------------------|------------------|------------------|--------|--------|--------|------------|-------------|------------|----|--------|---------|------|------|----------|-----------------------|---|---------------------------|
|                          | LVL 1            | LVL 2            | LVL 3  | LVL 4  | LVL 5  |            | B           | M1         | M2 |        |         |      |      |          |                       |   |                           |
|                          | LVL 6            | LVL 7            |        |        |        |            |             |            |    |        |         |      |      |          |                       |   |                           |
| Iodomethane              | 0.2446<br>0.3189 | 0.2510<br>0.3114 | 0.2895 | 0.3070 | 0.2985 | Ave        |             | 0.288<br>7 |    |        | 10.2    |      | 20.0 |          |                       |   |                           |
| Carbon disulfide         | 0.6974<br>0.7141 | 0.6391<br>0.6891 | 0.6915 | 0.7035 | 0.6838 | Ave        |             | 0.688<br>4 |    | 0.1000 | 3.5     |      | 20.0 |          |                       |   |                           |
| 3-Chloro-1-propene       | 0.4547<br>0.4002 | 0.3803<br>0.3801 | 0.4058 | 0.3970 | 0.3815 | Ave        |             | 0.399<br>9 |    |        | 6.6     |      | 20.0 |          |                       |   |                           |
| Methyl acetate           | 0.3562<br>0.3192 | 0.3419<br>0.3097 | 0.3024 | 0.3022 | 0.2961 | Ave        |             | 0.318<br>2 |    | 0.1000 | 7.1     |      | 20.0 |          |                       |   |                           |
| Methylene Chloride       | ++++<br>0.3209   | 0.4094<br>0.3093 | 0.3178 | 0.3116 | 0.3050 | Ave        |             | 0.329<br>0 |    | 0.1000 | 12.1    |      | 20.0 |          |                       |   |                           |
| tert-Butyl alcohol       | 0.0661<br>0.0702 | 0.0614<br>0.0662 | 0.0628 | 0.0618 | 0.0610 | Ave        |             | 0.064<br>2 |    |        | 5.3     |      | 20.0 |          |                       |   |                           |
| Methyl tert-butyl ether  | 0.7619<br>0.8294 | 0.7915<br>0.8089 | 0.8107 | 0.7987 | 0.7828 | Ave        |             | 0.797<br>7 |    | 0.1000 | 2.7     |      | 20.0 |          |                       |   |                           |
| trans-1,2-Dichloroethene | 0.3559<br>0.3678 | 0.3362<br>0.3516 | 0.3681 | 0.3570 | 0.3480 | Ave        |             | 0.355<br>0 |    | 0.1000 | 3.2     |      | 20.0 |          |                       |   |                           |
| Acrylonitrile            | 0.1539<br>0.1609 | 0.1516<br>0.1556 | 0.1550 | 0.1539 | 0.1498 | Ave        |             | 0.154<br>4 |    |        | 2.3     |      | 20.0 |          |                       |   |                           |
| Hexane                   | 0.3157<br>0.3514 | 0.2974<br>0.3437 | 0.3394 | 0.3389 | 0.3378 | Ave        |             | 0.332<br>0 |    |        | 5.7     |      | 20.0 |          |                       |   |                           |
| 1,1-Dichloroethane       | 0.4538<br>0.4794 | 0.4324<br>0.4618 | 0.4768 | 0.4615 | 0.4571 | Ave        |             | 0.460<br>4 |    | 0.2000 | 3.4     |      | 20.0 |          |                       |   |                           |
| Vinyl acetate            | 0.5261<br>0.5047 | 0.5638<br>0.4903 | 0.5422 | 0.5346 | 0.5067 | Ave        |             | 0.524<br>0 |    |        | 4.8     |      | 20.0 |          |                       |   |                           |
| 2,2-Dichloropropane      | 0.4060<br>0.4282 | 0.4095<br>0.4097 | 0.4289 | 0.4249 | 0.4119 | Ave        |             | 0.417<br>0 |    |        | 2.4     |      | 20.0 |          |                       |   |                           |
| cis-1,2-Dichloroethene   | 0.2884<br>0.2909 | 0.2683<br>0.2806 | 0.2853 | 0.2818 | 0.2776 | Ave        |             | 0.281<br>8 |    | 0.1000 | 2.7     |      | 20.0 |          |                       |   |                           |
| 2-Butanone               | 0.0610<br>0.0648 | 0.0647<br>0.0626 | 0.0593 | 0.0601 | 0.0595 | Ave        |             | 0.061<br>7 |    | 0.0100 | 3.8     |      | 20.0 |          |                       |   |                           |
| Bromochloromethane       | 0.1995<br>0.2158 | 0.2077<br>0.2130 | 0.2165 | 0.2120 | 0.2071 | Ave        |             | 0.210<br>2 |    |        | 2.8     |      | 20.0 |          |                       |   |                           |
| Tetrahydrofuran          | 0.1726<br>0.1490 | 0.1504<br>0.1437 | 0.1442 | 0.1407 | 0.1385 | Ave        |             | 0.148<br>5 |    |        | 7.7     |      | 20.0 |          |                       |   |                           |
| Chloroform               | 0.4507<br>0.4622 | 0.4464<br>0.4430 | 0.4665 | 0.4528 | 0.4374 | Ave        |             | 0.451<br>3 |    | 0.2000 | 2.3     |      | 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: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                   | RRF              |                  |        |        |        | CURVE TYPE | COEFFICIENT |            |    | #      | MIN RRF | %RSD | #    | MAX %RSD | R <sup>2</sup> OR COD | # | MIN R <sup>2</sup> OR COD |
|---------------------------|------------------|------------------|--------|--------|--------|------------|-------------|------------|----|--------|---------|------|------|----------|-----------------------|---|---------------------------|
|                           | LVL 1            | LVL 2            | LVL 3  | LVL 4  | LVL 5  |            | B           | M1         | M2 |        |         |      |      |          |                       |   |                           |
|                           | LVL 6            | LVL 7            |        |        |        |            |             |            |    |        |         |      |      |          |                       |   |                           |
| Cyclohexane               | 0.3752<br>0.4193 | 0.3732<br>0.4038 | 0.4053 | 0.4047 | 0.3965 | Ave        |             | 0.396<br>9 |    | 0.1000 | 4.3     |      | 20.0 |          |                       |   |                           |
| 1,1,1-Trichloroethane     | 0.3841<br>0.4233 | 0.3856<br>0.4091 | 0.4237 | 0.4117 | 0.4053 | Ave        |             | 0.406<br>1 |    | 0.1000 | 4.0     |      | 20.0 |          |                       |   |                           |
| Carbon tetrachloride      | 0.3111<br>0.3525 | 0.3196<br>0.3415 | 0.3507 | 0.3438 | 0.3372 | Ave        |             | 0.336<br>6 |    | 0.1000 | 4.7     |      | 20.0 |          |                       |   |                           |
| 1,1-Dichloropropene       | 0.3573<br>0.3854 | 0.3338<br>0.3729 | 0.3797 | 0.3792 | 0.3705 | Ave        |             | 0.368<br>4 |    |        | 4.8     |      | 20.0 |          |                       |   |                           |
| Isobutyl alcohol          | 0.0190<br>0.0198 | 0.0161<br>0.0185 | 0.0175 | 0.0176 | 0.0176 | Ave        |             | 0.018<br>0 |    |        | 6.6     |      | 20.0 |          |                       |   |                           |
| Benzene                   | 1.0672<br>1.1139 | 1.0387<br>1.0681 | 1.0839 | 1.0821 | 1.0651 | Ave        |             | 1.074<br>1 |    | 0.5000 | 2.1     |      | 20.0 |          |                       |   |                           |
| 1,2-Dichloroethane        | 0.3568<br>0.3671 | 0.3641<br>0.3562 | 0.3653 | 0.3580 | 0.3502 | Ave        |             | 0.359<br>7 |    | 0.1000 | 1.7     |      | 20.0 |          |                       |   |                           |
| n-Heptane                 | 0.2060<br>0.2062 | 0.1761<br>0.1998 | 0.1951 | 0.1905 | 0.1931 | Ave        |             | 0.195<br>3 |    |        | 5.3     |      | 20.0 |          |                       |   |                           |
| Trichloroethene           | 0.2652<br>0.2934 | 0.2610<br>0.2837 | 0.2891 | 0.2834 | 0.2800 | Ave        |             | 0.279<br>4 |    | 0.1500 | 4.3     |      | 20.0 |          |                       |   |                           |
| Methylcyclohexane         | 0.3732<br>0.4327 | 0.3678<br>0.4202 | 0.4124 | 0.4152 | 0.4170 | Ave        |             | 0.405<br>5 |    | 0.1000 | 6.1     |      | 20.0 |          |                       |   |                           |
| 1,2-Dichloropropane       | 0.2514<br>0.2696 | 0.2503<br>0.2601 | 0.2649 | 0.2602 | 0.2546 | Ave        |             | 0.258<br>7 |    | 0.1000 | 2.7     |      | 20.0 |          |                       |   |                           |
| 1,4-Dioxane               | 0.0046<br>0.0058 | 0.0046<br>0.0052 | 0.0050 | 0.0051 | 0.0051 | Ave        |             | 0.005<br>1 |    |        | 8.1     |      | 20.0 |          |                       |   |                           |
| Dibromomethane            | 0.1616<br>0.1781 | 0.1691<br>0.1748 | 0.1699 | 0.1704 | 0.1669 | Ave        |             | 0.170<br>1 |    |        | 3.1     |      | 20.0 |          |                       |   |                           |
| Bromodichloromethane      | 0.3003<br>0.3534 | 0.3351<br>0.3455 | 0.3398 | 0.3407 | 0.3362 | Ave        |             | 0.335<br>9 |    | 0.1500 | 5.0     |      | 20.0 |          |                       |   |                           |
| 2-Chloroethyl vinyl ether | 0.1835<br>0.2227 | 0.1891<br>0.2196 | 0.2105 | 0.2156 | 0.2096 | Ave        |             | 0.207<br>2 |    |        | 7.3     |      | 20.0 |          |                       |   |                           |
| cis-1,3-Dichloropropene   | 0.4249<br>0.4590 | 0.4095<br>0.4438 | 0.4437 | 0.4425 | 0.4356 | Ave        |             | 0.437<br>0 |    | 0.1500 | 3.6     |      | 20.0 |          |                       |   |                           |
| 4-Methyl-2-pentanone      | 0.3850<br>0.4221 | 0.3734<br>0.4121 | 0.4004 | 0.3997 | 0.3948 | Ave        |             | 0.398<br>2 |    | 0.0500 | 4.1     |      | 20.0 |          |                       |   |                           |
| Toluene                   | 1.6201<br>1.6070 | 1.5324<br>1.5320 | 1.6012 | 1.5796 | 1.5635 | Ave        |             | 1.576<br>5 |    | 0.4000 | 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: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                   | RRF              |                  |        |        |        | CURVE TYPE | COEFFICIENT |            |    | #      | MIN RRF | %RSD | #    | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|---------------------------|------------------|------------------|--------|--------|--------|------------|-------------|------------|----|--------|---------|------|------|----------|------------|---|----------------|
|                           | LVL 1            | LVL 2            | LVL 3  | LVL 4  | LVL 5  |            | B           | M1         | M2 |        |         |      |      |          |            |   |                |
|                           | LVL 6            | LVL 7            |        |        |        |            |             |            |    |        |         |      |      |          |            |   |                |
| trans-1,3-Dichloropropene | 0.5286<br>0.5793 | 0.5088<br>0.5626 | 0.5545 | 0.5590 | 0.5592 | Ave        |             | 0.550<br>3 |    | 0.1000 | 4.3     |      | 20.0 |          |            |   |                |
| Ethyl methacrylate        | 0.5324<br>0.5831 | 0.4955<br>0.5640 | 0.5580 | 0.5556 | 0.5521 | Ave        |             | 0.548<br>7 |    |        | 5.1     |      | 20.0 |          |            |   |                |
| 1,1,2-Trichloroethane     | 0.3118<br>0.3322 | 0.3075<br>0.3210 | 0.3171 | 0.3221 | 0.3164 | Ave        |             | 0.318<br>3 |    | 0.1000 | 2.5     |      | 20.0 |          |            |   |                |
| Tetrachloroethene         | 0.3214<br>0.3846 | 0.3401<br>0.3690 | 0.3734 | 0.3714 | 0.3702 | Ave        |             | 0.361<br>4 |    | 0.1500 | 6.2     |      | 20.0 |          |            |   |                |
| 1,3-Dichloropropane       | 0.5588<br>0.6015 | 0.5509<br>0.5775 | 0.5852 | 0.5788 | 0.5681 | Ave        |             | 0.574<br>4 |    |        | 2.9     |      | 20.0 |          |            |   |                |
| 2-Hexanone                | 0.4170<br>0.4421 | 0.3974<br>0.4256 | 0.4210 | 0.4211 | 0.4185 | Ave        |             | 0.420<br>4 |    | 0.0500 | 3.1     |      | 20.0 |          |            |   |                |
| Dibromochloromethane      | 0.3218<br>0.3495 | 0.3218<br>0.3396 | 0.3293 | 0.3319 | 0.3330 | Ave        |             | 0.332<br>4 |    |        | 3.0     |      | 20.0 |          |            |   |                |
| 1,2-Dibromoethane         | 0.3482<br>0.3614 | 0.3110<br>0.3492 | 0.3479 | 0.3496 | 0.3398 | Ave        |             | 0.343<br>9 |    |        | 4.6     |      | 20.0 |          |            |   |                |
| Chlorobenzene             | 0.9658<br>1.0081 | 0.9513<br>0.9642 | 0.9864 | 0.9885 | 0.9758 | Ave        |             | 0.977<br>2 |    | 0.3000 | 1.9     |      | 20.0 |          |            |   |                |
| Ethylbenzene              | 0.5074<br>0.5619 | 0.4987<br>0.5379 | 0.5511 | 0.5581 | 0.5504 | Ave        |             | 0.537<br>9 |    |        | 4.7     |      | 20.0 |          |            |   |                |
| 1,1,1,2-Tetrachloroethane | 0.2992<br>0.3609 | 0.3036<br>0.3446 | 0.3440 | 0.3458 | 0.3413 | Ave        |             | 0.334<br>2 |    |        | 7.0     |      | 20.0 |          |            |   |                |
| m-Xylene & p-Xylene       | 0.6852<br>0.6954 | 0.6682<br>0.6609 | 0.6896 | 0.6879 | 0.6764 | Ave        |             | 0.680<br>5 |    |        | 1.8     |      | 20.0 |          |            |   |                |
| o-Xylene                  | 0.6576<br>0.6659 | 0.6070<br>0.6435 | 0.6574 | 0.6578 | 0.6482 | Ave        |             | 0.648<br>2 |    |        | 3.0     |      | 20.0 |          |            |   |                |
| Styrene                   | 1.0329<br>1.1744 | 1.0518<br>1.1208 | 1.1163 | 1.1432 | 1.1303 | Ave        |             | 1.110<br>0 |    | 0.3000 | 4.5     |      | 20.0 |          |            |   |                |
| Bromoform                 | 0.2336<br>0.2743 | 0.2255<br>0.2660 | 0.2537 | 0.2577 | 0.2591 | Ave        |             | 0.252<br>9 |    | 0.1000 | 6.9     |      | 20.0 |          |            |   |                |
| Isopropylbenzene          | 1.6131<br>1.7301 | 1.5544<br>1.6466 | 1.7177 | 1.7253 | 1.7020 | Ave        |             | 1.669<br>9 |    | 0.1000 | 4.0     |      | 20.0 |          |            |   |                |
| Bromobenzene              | 0.7730<br>0.8157 | 0.7189<br>0.7904 | 0.8184 | 0.7974 | 0.7860 | Ave        |             | 0.785<br>7 |    |        | 4.3     |      | 20.0 |          |            |   |                |
| 1,1,2,2-Tetrachloroethane | 0.9415<br>1.0084 | 0.9573<br>0.9978 | 0.9961 | 0.9843 | 0.9719 | Ave        |             | 0.979<br>6 |    | 0.3000 | 2.5     |      | 20.0 |          |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                     | RRF              |                  |        |        |        | CURVE TYPE | COEFFICIENT |            |    | #      | MIN RRF | %RSD | #    | MAX %RSD | R <sup>2</sup> OR COD | # | MIN R <sup>2</sup> OR COD |
|-----------------------------|------------------|------------------|--------|--------|--------|------------|-------------|------------|----|--------|---------|------|------|----------|-----------------------|---|---------------------------|
|                             | LVL 1            | LVL 2            | LVL 3  | LVL 4  | LVL 5  |            | B           | M1         | M2 |        |         |      |      |          |                       |   |                           |
|                             | LVL 6            | LVL 7            |        |        |        |            |             |            |    |        |         |      |      |          |                       |   |                           |
| n-Propylbenzene             | 0.8235<br>0.9157 | 0.8032<br>0.8898 | 0.9118 | 0.8968 | 0.8979 | Ave        |             | 0.876<br>9 |    |        | 5.1     |      | 20.0 |          |                       |   |                           |
| 1,2,3-Trichloropropane      | 0.3141<br>0.3681 | 0.3748<br>0.3556 | 0.3545 | 0.3507 | 0.3433 | Ave        |             | 0.351<br>6 |    |        | 5.6     |      | 20.0 |          |                       |   |                           |
| trans-1,4-Dichloro-2-butene | 0.3892<br>0.4165 | 0.3586<br>0.4081 | 0.4050 | 0.3974 | 0.3975 | Ave        |             | 0.396<br>0 |    |        | 4.7     |      | 20.0 |          |                       |   |                           |
| 2-Chlorotoluene             | 0.6521<br>0.7799 | 0.6992<br>0.7584 | 0.7720 | 0.7665 | 0.7581 | Ave        |             | 0.740<br>9 |    |        | 6.4     |      | 20.0 |          |                       |   |                           |
| 1,3,5-Trimethylbenzene      | 2.4870<br>2.7112 | 2.3664<br>2.6403 | 2.6872 | 2.6892 | 2.6509 | Ave        |             | 2.604<br>6 |    |        | 4.9     |      | 20.0 |          |                       |   |                           |
| 4-Chlorotoluene             | 0.7601<br>0.8145 | 0.7581<br>0.7936 | 0.8168 | 0.8087 | 0.7989 | Ave        |             | 0.792<br>9 |    |        | 3.1     |      | 20.0 |          |                       |   |                           |
| tert-Butylbenzene           | 2.1072<br>2.2687 | 2.0343<br>2.2128 | 2.2661 | 2.2482 | 2.2394 | Ave        |             | 2.196<br>7 |    |        | 4.1     |      | 20.0 |          |                       |   |                           |
| 1,2,4-Trimethylbenzene      | 2.5728<br>2.7378 | 2.4910<br>2.6540 | 2.7432 | 2.7210 | 2.6908 | Ave        |             | 2.658<br>7 |    |        | 3.6     |      | 20.0 |          |                       |   |                           |
| sec-Butylbenzene            | 0.5414<br>0.6863 | 0.5910<br>0.6635 | 0.6739 | 0.6780 | 0.6737 | Ave        |             | 0.644<br>0 |    |        | 8.6     |      | 20.0 |          |                       |   |                           |
| p-Isopropyltoluene          | 2.4932<br>2.8135 | 2.4813<br>2.7322 | 2.8058 | 2.7576 | 2.7571 | Ave        |             | 2.691<br>5 |    |        | 5.3     |      | 20.0 |          |                       |   |                           |
| 1,3-Dichlorobenzene         | 1.3736<br>1.5146 | 1.3931<br>1.4694 | 1.5252 | 1.4913 | 1.4795 | Ave        |             | 1.463<br>8 |    | 0.6000 | 4.0     |      | 20.0 |          |                       |   |                           |
| 1,4-Dichlorobenzene         | 1.4637<br>1.5359 | 1.4509<br>1.4855 | 1.5244 | 1.5233 | 1.5072 | Ave        |             | 1.498<br>7 |    | 0.5000 | 2.2     |      | 20.0 |          |                       |   |                           |
| n-Butylbenzene              | 2.1035<br>2.3818 | 2.0965<br>2.3204 | 2.3361 | 2.3506 | 2.3426 | Ave        |             | 2.275<br>9 |    |        | 5.3     |      | 20.0 |          |                       |   |                           |
| 1,2-Dichlorobenzene         | 1.3407<br>1.4281 | 1.3204<br>1.3816 | 1.4294 | 1.4007 | 1.3796 | Ave        |             | 1.382<br>9 |    | 0.4000 | 3.0     |      | 20.0 |          |                       |   |                           |
| 1,2-Dibromo-3-Chloropropane | 0.2816<br>0.3352 | 0.2871<br>0.3253 | 0.3105 | 0.3118 | 0.3119 | Ave        |             | 0.309<br>0 |    | 0.0500 | 6.2     |      | 20.0 |          |                       |   |                           |
| 1,2,4-Trichlorobenzene      | 0.8102<br>0.8507 | 0.7543<br>0.8257 | 0.8238 | 0.8147 | 0.8313 | Ave        |             | 0.815<br>8 |    | 0.2000 | 3.7     |      | 20.0 |          |                       |   |                           |
| Hexachlorobutadiene         | 0.3350<br>0.3573 | 0.3248<br>0.3456 | 0.3517 | 0.3576 | 0.3546 | Ave        |             | 0.346<br>7 |    |        | 3.6     |      | 20.0 |          |                       |   |                           |
| Naphthalene                 | 2.5162<br>2.8313 | 2.4456<br>2.7546 | 2.6436 | 2.6841 | 2.6653 | Ave        |             | 2.648<br>7 |    |        | 5.0     |      | 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: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                      | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | #    | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|------------------------------|------------------|------------------|--------|--------|--------|---------------|-------------|------------|----|---|---------|------|------|-------------|---------------|---|-------------------|
|                              | LVL 1            | LVL 2            | LVL 3  | LVL 4  | LVL 5  |               | B           | M1         | M2 |   |         |      |      |             |               |   |                   |
|                              | LVL 6            | LVL 7            |        |        |        |               |             |            |    |   |         |      |      |             |               |   |                   |
| 1,2,3-Trichlorobenzene       | 0.7666<br>0.8070 | 0.7148<br>0.7831 | 0.7842 | 0.7744 | 0.7797 | Ave           |             | 0.772<br>8 |    |   | 3.7     |      | 20.0 |             |               |   |                   |
| Dibromofluoromethane (Surr)  | 0.2404<br>0.2404 | 0.2174<br>0.2395 | 0.2293 | 0.2345 | 0.2312 | Ave           |             | 0.233<br>3 |    |   | 3.6     |      | 20.0 |             |               |   |                   |
| 1,2-Dichloroethane-d4 (Surr) | 0.2945<br>0.3058 | 0.2955<br>0.3005 | 0.2968 | 0.2968 | 0.2935 | Ave           |             | 0.297<br>6 |    |   | 1.4     |      | 20.0 |             |               |   |                   |
| Toluene-d8 (Surr)            | 1.3716<br>1.3236 | 1.2061<br>1.2841 | 1.2878 | 1.3241 | 1.2895 | Ave           |             | 1.298<br>1 |    |   | 3.9     |      | 20.0 |             |               |   |                   |
| 4-Bromofluorobenzene (Surr)  | 0.5497<br>0.5049 | 0.4759<br>0.4915 | 0.4887 | 0.5063 | 0.4922 | Ave           |             | 0.501<br>3 |    |   | 4.7     |      | 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: ICV 240-520426/15 Calibration Date: 03/21/2022 19:14  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000691.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        | 0.2978  | 0.2934 | 0.1000  | 0.0197      | 0.0200       | -1.5   | 30.0   |
| Chloromethane                            | Ave        | 0.3182  | 0.3191 | 0.1000  | 0.0201      | 0.0200       | 0.3    | 30.0   |
| Vinyl chloride                           | Ave        | 0.3251  | 0.3294 | 0.1000  | 0.0203      | 0.0200       | 1.3    | 30.0   |
| Butadiene                                | Ave        | 0.2971  | 0.2665 |         | 0.0179      | 0.0200       | -10.3  | 30.0   |
| Bromomethane                             | Ave        | 0.2290  | 0.2323 | 0.0500  | 0.0203      | 0.0200       | 1.5    | 30.0   |
| Chloroethane                             | Ave        | 0.2161  | 0.2180 | 0.0500  | 0.0202      | 0.0200       | 0.9    | 30.0   |
| Dichlorofluoromethane                    | Ave        | 0.5199  | 0.4876 |         | 0.0188      | 0.0200       | -6.2   | 30.0   |
| Trichlorofluoromethane                   | Ave        | 0.4129  | 0.4155 | 0.1000  | 0.0201      | 0.0200       | 0.6    | 30.0   |
| Ethyl ether                              | Ave        | 0.2021  | 0.1999 |         | 0.0198      | 0.0200       | -1.1   | 30.0   |
| 1,1,2-Trichloro-1,2,2-trichf luoroethane | Ave        | 0.2264  | 0.2261 | 0.0500  | 0.0200      | 0.0200       | -0.1   | 30.0   |
| Acrolein                                 | Ave        | 0.0682  | 0.0410 |         | 0.0600      | 0.100        | -40.0* | 30.0   |
| 1,1-Dichloroethene                       | Ave        | 0.3618  | 0.3641 | 0.1000  | 0.0201      | 0.0200       | 0.6    | 30.0   |
| Acetone                                  | Lin1       |         | 0.0408 | 0.0100  | 0.0373      | 0.0400       | -6.9   | 50.0   |
| Iodomethane                              | Ave        | 0.2887  | 0.2916 |         | 0.0202      | 0.0200       | 1.0    | 30.0   |
| Carbon disulfide                         | Ave        | 0.6884  | 0.7032 | 0.1000  | 0.0204      | 0.0200       | 2.2    | 30.0   |
| 3-Chloro-1-propene                       | Ave        | 0.3999  | 0.3866 |         | 0.0193      | 0.0200       | -3.3   | 30.0   |
| Methyl acetate                           | Ave        | 0.3182  | 0.2908 | 0.1000  | 0.0365      | 0.0400       | -8.6   | 50.0   |
| Methylene Chloride                       | Ave        | 0.3290  | 0.3068 | 0.1000  | 0.0186      | 0.0200       | -6.8   | 50.0   |
| tert-Butyl alcohol                       | Ave        | 0.0642  | 0.0648 |         | 0.202       | 0.200        | 0.9    | 30.0   |
| Methyl tert-butyl ether                  | Ave        | 0.7977  | 0.7853 | 0.1000  | 0.0197      | 0.0200       | -1.6   | 30.0   |
| trans-1,2-Dichloroethene                 | Ave        | 0.3550  | 0.3464 | 0.1000  | 0.0195      | 0.0200       | -2.4   | 30.0   |
| Acrylonitrile                            | Ave        | 0.1544  | 0.1500 |         | 0.194       | 0.200        | -2.9   | 30.0   |
| Hexane                                   | Ave        | 0.3320  | 0.3207 |         | 0.0193      | 0.0200       | -3.4   | 30.0   |
| 1,1-Dichloroethane                       | Ave        | 0.4604  | 0.4381 | 0.2000  | 0.0190      | 0.0200       | -4.8   | 30.0   |
| Vinyl acetate                            | Ave        | 0.5240  | 0.4384 |         | 0.0167      | 0.0200       | -16.3  | 30.0   |
| 2,2-Dichloropropane                      | Ave        | 0.4170  | 0.3970 |         | 0.0190      | 0.0200       | -4.8   | 30.0   |
| cis-1,2-Dichloroethene                   | Ave        | 0.2818  | 0.2753 | 0.1000  | 0.0195      | 0.0200       | -2.3   | 30.0   |
| 2-Butanone                               | Ave        | 0.0617  | 0.0582 | 0.0100  | 0.0377      | 0.0400       | -5.7   | 50.0   |
| Bromochloromethane                       | Ave        | 0.2102  | 0.2047 |         | 0.0195      | 0.0200       | -2.6   | 30.0   |
| Tetrahydrofuran                          | Ave        | 0.1485  | 0.1393 |         | 0.0375      | 0.0400       | -6.2   | 30.0   |
| Chloroform                               | Ave        | 0.4513  | 0.4290 | 0.2000  | 0.0190      | 0.0200       | -4.9   | 30.0   |
| Cyclohexane                              | Ave        | 0.3969  | 0.3896 | 0.1000  | 0.0196      | 0.0200       | -1.8   | 30.0   |
| 1,1,1-Trichloroethane                    | Ave        | 0.4061  | 0.3935 | 0.1000  | 0.0194      | 0.0200       | -3.1   | 30.0   |
| Carbon tetrachloride                     | Ave        | 0.3366  | 0.3280 | 0.1000  | 0.0195      | 0.0200       | -2.5   | 30.0   |
| 1,1-Dichloropropene                      | Ave        | 0.3684  | 0.3548 |         | 0.0193      | 0.0200       | -3.7   | 30.0   |
| Isobutyl alcohol                         | Ave        | 0.0180  | 0.0187 |         | 0.519       | 0.500        | 3.9    | 30.0   |
| Benzene                                  | Ave        | 1.074   | 1.041  | 0.5000  | 0.0194      | 0.0200       | -3.1   | 30.0   |
| 1,2-Dichloroethane                       | Ave        | 0.3597  | 0.3473 | 0.1000  | 0.0193      | 0.0200       | -3.4   | 30.0   |
| n-Heptane                                | Ave        | 0.1953  | 0.1841 |         | 0.0189      | 0.0200       | -5.7   | 30.0   |
| Trichloroethene                          | Ave        | 0.2794  | 0.2810 | 0.1500  | 0.0201      | 0.0200       | 0.6    | 30.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: ICV 240-520426/15 Calibration Date: 03/21/2022 19:14  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000691.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        | 0.4055  | 0.3905 | 0.1000  | 0.0193      | 0.0200       | -3.7 | 30.0   |
| 1,2-Dichloropropane         | Ave        | 0.2587  | 0.2532 | 0.1000  | 0.0196      | 0.0200       | -2.1 | 30.0   |
| 1,4-Dioxane                 | Ave        | 0.0051  | 0.0068 |         | 0.534       | 0.400        | 33.4 | 50.0   |
| Dibromomethane              | Ave        | 0.1701  | 0.1678 |         | 0.0197      | 0.0200       | -1.4 | 30.0   |
| Bromodichloromethane        | Ave        | 0.3359  | 0.3267 | 0.1500  | 0.0195      | 0.0200       | -2.7 | 30.0   |
| 2-Chloroethyl vinyl ether   | Ave        | 0.2072  | 0.2065 |         | 0.0199      | 0.0200       | -0.4 | 30.0   |
| cis-1,3-Dichloropropene     | Ave        | 0.4370  | 0.4148 | 0.1500  | 0.0190      | 0.0200       | -5.1 | 50.0   |
| 4-Methyl-2-pentanone        | Ave        | 0.3982  | 0.3839 | 0.0500  | 0.0386      | 0.0400       | -3.6 | 50.0   |
| Toluene                     | Ave        | 1.577   | 1.496  | 0.4000  | 0.0190      | 0.0200       | -5.1 | 30.0   |
| trans-1,3-Dichloropropene   | Ave        | 0.5503  | 0.5293 | 0.1000  | 0.0192      | 0.0200       | -3.8 | 30.0   |
| Ethyl methacrylate          | Ave        | 0.5487  | 0.5357 |         | 0.0195      | 0.0200       | -2.4 | 30.0   |
| 1,1,2-Trichloroethane       | Ave        | 0.3183  | 0.3096 | 0.1000  | 0.0195      | 0.0200       | -2.7 | 30.0   |
| Tetrachloroethene           | Ave        | 0.3614  | 0.3631 | 0.1500  | 0.0201      | 0.0200       | 0.5  | 30.0   |
| 1,3-Dichloropropane         | Ave        | 0.5744  | 0.5546 |         | 0.0193      | 0.0200       | -3.4 | 30.0   |
| 2-Hexanone                  | Ave        | 0.4204  | 0.4104 | 0.0500  | 0.0390      | 0.0400       | -2.4 | 50.0   |
| Dibromochloromethane        | Ave        | 0.3324  | 0.3189 |         | 0.0192      | 0.0200       | -4.1 | 30.0   |
| 1,2-Dibromoethane           | Ave        | 0.3439  | 0.3309 |         | 0.0192      | 0.0200       | -3.8 | 30.0   |
| Chlorobenzene               | Ave        | 0.9772  | 0.9479 | 0.3000  | 0.0194      | 0.0200       | -3.0 | 30.0   |
| Ethylbenzene                | Ave        | 0.5379  | 0.5280 |         | 0.0196      | 0.0200       | -1.8 | 30.0   |
| 1,1,1,2-Tetrachloroethane   | Ave        | 0.3342  | 0.3241 |         | 0.0194      | 0.0200       | -3.0 | 30.0   |
| m-Xylene & p-Xylene         | Ave        | 0.6805  | 0.6526 |         | 0.0192      | 0.0200       | -4.1 | 30.0   |
| o-Xylene                    | Ave        | 0.6482  | 0.6278 |         | 0.0194      | 0.0200       | -3.1 | 30.0   |
| Styrene                     | Ave        | 1.110   | 1.081  | 0.3000  | 0.0195      | 0.0200       | -2.6 | 30.0   |
| Bromoform                   | Ave        | 0.2529  | 0.2486 | 0.1000  | 0.0197      | 0.0200       | -1.7 | 30.0   |
| Isopropylbenzene            | Ave        | 1.670   | 1.632  | 0.1000  | 0.0195      | 0.0200       | -2.3 | 30.0   |
| Bromobenzene                | Ave        | 0.7857  | 0.7814 |         | 0.0199      | 0.0200       | -0.6 | 30.0   |
| 1,1,2,2-Tetrachloroethane   | Ave        | 0.9796  | 0.9645 | 0.3000  | 0.0197      | 0.0200       | -1.5 | 30.0   |
| n-Propylbenzene             | Ave        | 0.8769  | 0.8707 |         | 0.0199      | 0.0200       | -0.7 | 30.0   |
| 1,2,3-Trichloropropane      | Ave        | 0.3516  | 0.3372 |         | 0.0192      | 0.0200       | -4.1 | 30.0   |
| trans-1,4-Dichloro-2-butene | Ave        | 0.3960  | 0.4030 |         | 0.0203      | 0.0200       | 1.7  | 30.0   |
| 2-Chlorotoluene             | Ave        | 0.7409  | 0.7524 |         | 0.0203      | 0.0200       | 1.6  | 30.0   |
| 1,3,5-Trimethylbenzene      | Ave        | 2.605   | 2.632  |         | 0.0202      | 0.0200       | 1.1  | 30.0   |
| 4-Chlorotoluene             | Ave        | 0.7929  | 0.7823 |         | 0.0197      | 0.0200       | -1.3 | 30.0   |
| tert-Butylbenzene           | Ave        | 2.197   | 2.224  |         | 0.0203      | 0.0200       | 1.3  | 30.0   |
| 1,2,4-Trimethylbenzene      | Ave        | 2.659   | 2.687  |         | 0.0202      | 0.0200       | 1.1  | 30.0   |
| sec-Butylbenzene            | Ave        | 0.6440  | 0.6588 |         | 0.0205      | 0.0200       | 2.3  | 30.0   |
| 1,3-Dichlorobenzene         | Ave        | 1.464   | 1.477  | 0.6000  | 0.0202      | 0.0200       | 0.9  | 30.0   |
| p-Isopropyltoluene          | Ave        | 2.692   | 2.749  |         | 0.0204      | 0.0200       | 2.1  | 30.0   |
| 1,4-Dichlorobenzene         | Ave        | 1.499   | 1.496  | 0.5000  | 0.0200      | 0.0200       | -0.2 | 30.0   |
| n-Butylbenzene              | Ave        | 2.276   | 2.292  |         | 0.0201      | 0.0200       | 0.7  | 30.0   |
| 1,2-Dichlorobenzene         | Ave        | 1.383   | 1.396  | 0.4000  | 0.0202      | 0.0200       | 0.9  | 30.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: ICV 240-520426/15 Calibration Date: 03/21/2022 19:14  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000691.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        | 0.3090  | 0.3029 | 0.0500  | 0.0196      | 0.0200       | -2.0 | 50.0   |
| 1,2,4-Trichlorobenzene       | Ave        | 0.8158  | 0.8205 | 0.2000  | 0.0201      | 0.0200       | 0.6  | 50.0   |
| Hexachlorobutadiene          | Ave        | 0.3467  | 0.3560 |         | 0.0205      | 0.0200       | 2.7  | 50.0   |
| Naphthalene                  | Ave        | 2.649   | 2.700  |         | 0.0204      | 0.0200       | 1.9  | 50.0   |
| 1,2,3-Trichlorobenzene       | Ave        | 0.7728  | 0.7846 |         | 0.0203      | 0.0200       | 1.5  | 30.0   |
| Dibromofluoromethane (Surr)  | Ave        | 0.2333  | 0.2557 |         | 0.0219      | 0.0200       | 9.6  | 30.0   |
| 1,2-Dichloroethane-d4 (Surr) | Ave        | 0.2976  | 0.3008 |         | 0.0202      | 0.0200       | 1.1  | 30.0   |
| Toluene-d8 (Surr)            | Ave        | 1.298   | 1.368  |         | 0.0211      | 0.0200       | 5.4  | 30.0   |
| 4-Bromofluorobenzene (Surr)  | Ave        | 0.5013  | 0.5479 |         | 0.0219      | 0.0200       | 9.3  | 30.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: ICV 240-520426/24 Calibration Date: 03/21/2022 22:54  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 20:28  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 22:30  
 Lab File ID: UX000700.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        | 0.0590  | 0.0538 |         | 0.182       | 0.200        | -8.9   | 30.0   |
| Diisopropyl ether             | Ave        | 0.2206  | 0.2269 |         | 0.0206      | 0.0200       | 2.9    | 30.0   |
| 2-Chloro-1,3-butadiene        | Ave        | 0.4122  | 0.4108 |         | 0.0199      | 0.0200       | -0.3   | 30.0   |
| Ethyl-t-butyl ether (ETBE)    | Ave        | 0.7777  | 0.8031 |         | 0.0207      | 0.0200       | 3.3    | 30.0   |
| Ethyl acetate                 | Ave        | 0.3889  | 0.3767 |         | 0.0387      | 0.0400       | -3.1   | 30.0   |
| Propionitrile                 | Ave        | 0.0659  | 0.0652 |         | 0.198       | 0.200        | -1.0   | 30.0   |
| Methacrylonitrile             | Ave        | 0.2291  | 0.2275 |         | 0.199       | 0.200        | -0.7   | 30.0   |
| Tert-amyl-methyl ether (TAME) | Ave        | 0.7931  | 0.8198 |         | 0.0207      | 0.0200       | 3.4    | 30.0   |
| n-Butanol                     | Ave        | 0.0151  | 0.0166 |         | 0.551       | 0.500        | 10.3   | 30.0   |
| Ethyl acrylate                | Ave        | 0.4649  | 0.4606 |         | 0.0198      | 0.0200       | -0.9   | 30.0   |
| Methyl methacrylate           | Ave        | 0.2995  | 0.2979 |         | 0.0398      | 0.0400       | -0.5   | 30.0   |
| 2-Nitropropane                | Ave        | 0.1276  | 0.1209 |         | 0.0379      | 0.0400       | -5.3   | 30.0   |
| n-Butyl acetate               | Ave        | 0.7114  | 0.6779 |         | 0.0191      | 0.0200       | -4.7   | 30.0   |
| 1-Chlorohexane                | Ave        | 0.4860  | 0.4579 |         | 0.0188      | 0.0200       | -5.8   | 30.0   |
| Cyclohexanone                 | Ave        | 0.0457  | 0.0518 |         | 0.227       | 0.200        | 13.5   | 30.0   |
| Pentachloroethane             | Ave        | 0.0457  | 0.0237 |         | 0.0207      | 0.0400       | -48.2* | 30.0   |
| 1,2,3-Trimethylbenzene        | Ave        | 2.621   | 2.643  |         | 0.0202      | 0.0200       | 0.8    | 30.0   |
| Benzyl chloride               | Ave        | 0.3788  | 0.3598 |         | 0.0190      | 0.0200       | -5.0   | 30.0   |
| 1,3,5-Trichlorobenzene        | Ave        | 0.8615  | 0.8873 |         | 0.0206      | 0.0200       | 3.0    | 30.0   |
| 2-Methylnaphthalene           | Ave        | 1.008   | 1.084  |         | 0.0430      | 0.0400       | 7.5    | 30.0   |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab File ID: BFB1495.D BFB Injection Date: 03/23/2022  
 Instrument ID: A3UX9 BFB Injection Time: 09:25  
 Analysis Batch No.: 520596

| 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           | 51.1                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.7                  |
| 173 | Less than 2.0 % of mass 174        | 0.0 (0.0) 1          |
| 174 | Greater than 50% of mass 95        | 77.4                 |
| 175 | 5.0 - 9.0 % of mass 174            | 6.0 (7.7) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 74.8 (96.6) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 4.9 (6.5) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
|                  | CCVIS 240-520596/3 | UX000747.D  | 03/23/2022    | 9:49          |
|                  | CCV 240-520596/4   | UX000749.D  | 03/23/2022    | 10:14         |
|                  | LCS 240-520596/5   | UX000750.D  | 03/23/2022    | 10:38         |
|                  | MB 240-520596/8    | UX000753.D  | 03/23/2022    | 11:52         |
| MSA-SW37C-031122 | 240-163634-6       | UX000764.D  | 03/23/2022    | 16:22         |
| MSA-SW37D-031122 | 240-163634-7       | UX000765.D  | 03/23/2022    | 16:46         |
| MSA-SW38A-031122 | 240-163634-8       | UX000766.D  | 03/23/2022    | 17:11         |
| MSA-SW38B-031122 | 240-163634-9       | UX000767.D  | 03/23/2022    | 17:35         |
| MSA-SW38C-031122 | 240-163634-10      | UX000768.D  | 03/23/2022    | 17:59         |
| MSA-SW38D-031122 | 240-163634-11      | UX000769.D  | 03/23/2022    | 18:24         |
| MSA-SW40A-031122 | 240-163634-12      | UX000770.D  | 03/23/2022    | 18:48         |
| MSA-SW40B-031122 | 240-163634-13      | UX000771.D  | 03/23/2022    | 19:13         |
| MSA-SW40C-031122 | 240-163634-14      | UX000772.D  | 03/23/2022    | 19:37         |
| MSA-SW40D-031122 | 240-163634-15      | UX000773.D  | 03/23/2022    | 20:02         |
| MSA-SW41A-031122 | 240-163634-16      | UX000774.D  | 03/23/2022    | 20:26         |



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCVIS 240-520596/3 Calibration Date: 03/23/2022 09:49  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000747.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        | 0.2978  | 0.3675 | 0.1000  | 0.0247      | 0.0200       | 23.4*  | 20.0   |
| Chloromethane                            | Ave        | 0.3182  | 0.3334 | 0.1000  | 0.0210      | 0.0200       | 4.8    | 20.0   |
| Vinyl chloride                           | Ave        | 0.3251  | 0.3426 | 0.1000  | 0.0211      | 0.0200       | 5.4    | 20.0   |
| Butadiene                                | Ave        | 0.2971  | 0.3351 |         | 0.0226      | 0.0200       | 12.8   | 20.0   |
| Bromomethane                             | Ave        | 0.2290  | 0.2180 | 0.0500  | 0.0190      | 0.0200       | -4.8   | 20.0   |
| Chloroethane                             | Ave        | 0.2161  | 0.2232 | 0.0500  | 0.0207      | 0.0200       | 3.3    | 20.0   |
| Dichlorofluoromethane                    | Ave        | 0.5199  | 0.5051 |         | 0.0194      | 0.0200       | -2.8   | 20.0   |
| Trichlorofluoromethane                   | Ave        | 0.4129  | 0.4468 | 0.1000  | 0.0216      | 0.0200       | 8.2    | 20.0   |
| Ethyl ether                              | Ave        | 0.2021  | 0.1976 |         | 0.0196      | 0.0200       | -2.2   | 20.0   |
| 1,1,2-Trichloro-1,2,2-trichf luoroethane | Ave        | 0.2264  | 0.2281 | 0.0500  | 0.0202      | 0.0200       | 0.8    | 20.0   |
| Acrolein                                 | Ave        | 0.0682  | 0.0658 |         | 0.0965      | 0.100        | -3.5   | 20.0   |
| 1,1-Dichloroethene                       | Ave        | 0.3618  | 0.3498 | 0.1000  | 0.0193      | 0.0200       | -3.3   | 20.0   |
| Acetone                                  | Lin1       |         | 0.0372 | 0.0100  | 0.0338      | 0.0400       | -15.5  | 50.0   |
| Iodomethane                              | Ave        | 0.2887  | 0.2796 |         | 0.0194      | 0.0200       | -3.1   | 20.0   |
| Carbon disulfide                         | Ave        | 0.6884  | 0.6744 | 0.1000  | 0.0196      | 0.0200       | -2.0   | 20.0   |
| 3-Chloro-1-propene                       | Ave        | 0.3999  | 0.3792 |         | 0.0190      | 0.0200       | -5.2   | 20.0   |
| Methyl acetate                           | Ave        | 0.3182  | 0.2697 | 0.1000  | 0.0339      | 0.0400       | -15.2  | 50.0   |
| Methylene Chloride                       | Ave        | 0.3290  | 0.3031 | 0.1000  | 0.0184      | 0.0200       | -7.9   | 50.0   |
| tert-Butyl alcohol                       | Ave        | 0.0642  | 0.0513 |         | 0.160       | 0.200        | -20.1* | 20.0   |
| Methyl tert-butyl ether                  | Ave        | 0.7977  | 0.7568 | 0.1000  | 0.0190      | 0.0200       | -5.1   | 20.0   |
| trans-1,2-Dichloroethene                 | Ave        | 0.3550  | 0.3329 | 0.1000  | 0.0188      | 0.0200       | -6.2   | 20.0   |
| Acrylonitrile                            | Ave        | 0.1544  | 0.1423 |         | 0.184       | 0.200        | -7.8   | 20.0   |
| Hexane                                   | Ave        | 0.3320  | 0.3397 |         | 0.0205      | 0.0200       | 2.3    | 20.0   |
| 1,1-Dichloroethane                       | Ave        | 0.4604  | 0.4381 | 0.2000  | 0.0190      | 0.0200       | -4.9   | 20.0   |
| Vinyl acetate                            | Ave        | 0.5240  | 0.6332 |         | 0.0242      | 0.0200       | 20.8*  | 20.0   |
| 2,2-Dichloropropane                      | Ave        | 0.4170  | 0.4075 |         | 0.0195      | 0.0200       | -2.3   | 20.0   |
| cis-1,2-Dichloroethene                   | Ave        | 0.2818  | 0.2626 | 0.1000  | 0.0186      | 0.0200       | -6.8   | 20.0   |
| 2-Butanone                               | Ave        | 0.0617  | 0.0555 | 0.0100  | 0.0360      | 0.0400       | -10.1  | 50.0   |
| Bromochloromethane                       | Ave        | 0.2102  | 0.2041 |         | 0.0194      | 0.0200       | -2.9   | 20.0   |
| Tetrahydrofuran                          | Ave        | 0.1485  | 0.1285 |         | 0.0346      | 0.0400       | -13.5  | 20.0   |
| Chloroform                               | Ave        | 0.4513  | 0.4225 | 0.2000  | 0.0187      | 0.0200       | -6.4   | 20.0   |
| Cyclohexane                              | Ave        | 0.3969  | 0.3962 | 0.1000  | 0.0200      | 0.0200       | -0.2   | 20.0   |
| 1,1,1-Trichloroethane                    | Ave        | 0.4061  | 0.3812 | 0.1000  | 0.0188      | 0.0200       | -6.1   | 20.0   |
| Carbon tetrachloride                     | Ave        | 0.3366  | 0.3179 | 0.1000  | 0.0189      | 0.0200       | -5.6   | 20.0   |
| 1,1-Dichloropropene                      | Ave        | 0.3684  | 0.3536 |         | 0.0192      | 0.0200       | -4.0   | 20.0   |
| Isobutyl alcohol                         | Ave        | 0.0180  | 0.0150 |         | 0.416       | 0.500        | -16.8  | 20.0   |
| Benzene                                  | Ave        | 1.074   | 1.014  | 0.5000  | 0.0189      | 0.0200       | -5.6   | 20.0   |
| 1,2-Dichloroethane                       | Ave        | 0.3597  | 0.3424 | 0.1000  | 0.0190      | 0.0200       | -4.8   | 20.0   |
| n-Heptane                                | Ave        | 0.1953  | 0.1964 |         | 0.0201      | 0.0200       | 0.6    | 20.0   |
| Trichloroethene                          | Ave        | 0.2794  | 0.2620 | 0.1500  | 0.0188      | 0.0200       | -6.2   | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCVIS 240-520596/3 Calibration Date: 03/23/2022 09:49  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000747.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        | 0.4055  | 0.4068 | 0.1000  | 0.0201      | 0.0200       | 0.3   | 20.0   |
| 1,2-Dichloropropane         | Ave        | 0.2587  | 0.2461 | 0.1000  | 0.0190      | 0.0200       | -4.9  | 20.0   |
| 1,4-Dioxane                 | Ave        | 0.0051  | 0.0040 |         | 0.317       | 0.400        | -20.7 | 50.0   |
| Dibromomethane              | Ave        | 0.1701  | 0.1589 |         | 0.0187      | 0.0200       | -6.6  | 20.0   |
| Bromodichloromethane        | Ave        | 0.3359  | 0.3144 | 0.1500  | 0.0187      | 0.0200       | -6.4  | 20.0   |
| 2-Chloroethyl vinyl ether   | Ave        | 0.2072  | 0.1990 |         | 0.0384      | 0.0400       | -4.0  | 20.0   |
| cis-1,3-Dichloropropene     | Ave        | 0.4370  | 0.4156 | 0.1500  | 0.0190      | 0.0200       | -4.9  | 50.0   |
| 4-Methyl-2-pentanone        | Ave        | 0.3982  | 0.3709 | 0.0500  | 0.0373      | 0.0400       | -6.9  | 50.0   |
| Toluene                     | Ave        | 1.577   | 1.406  | 0.4000  | 0.0178      | 0.0200       | -10.8 | 20.0   |
| trans-1,3-Dichloropropene   | Ave        | 0.5503  | 0.5044 | 0.1000  | 0.0183      | 0.0200       | -8.3  | 20.0   |
| Ethyl methacrylate          | Ave        | 0.5487  | 0.5023 |         | 0.0183      | 0.0200       | -8.4  | 20.0   |
| 1,1,2-Trichloroethane       | Ave        | 0.3183  | 0.2882 | 0.1000  | 0.0181      | 0.0200       | -9.5  | 20.0   |
| Tetrachloroethene           | Ave        | 0.3614  | 0.3351 | 0.1500  | 0.0185      | 0.0200       | -7.3  | 20.0   |
| 1,3-Dichloropropane         | Ave        | 0.5744  | 0.5194 |         | 0.0181      | 0.0200       | -9.6  | 20.0   |
| 2-Hexanone                  | Ave        | 0.4204  | 0.3671 | 0.0500  | 0.0349      | 0.0400       | -12.7 | 50.0   |
| Dibromochloromethane        | Ave        | 0.3324  | 0.2917 |         | 0.0176      | 0.0200       | -12.2 | 20.0   |
| 1,2-Dibromoethane           | Ave        | 0.3439  | 0.3126 |         | 0.0182      | 0.0200       | -9.1  | 20.0   |
| Chlorobenzene               | Ave        | 0.9772  | 0.8852 | 0.3000  | 0.0181      | 0.0200       | -9.4  | 20.0   |
| Ethylbenzene                | Ave        | 0.5379  | 0.4957 |         | 0.0184      | 0.0200       | -7.8  | 20.0   |
| 1,1,1,2-Tetrachloroethane   | Ave        | 0.3342  | 0.3050 |         | 0.0183      | 0.0200       | -8.7  | 20.0   |
| m-Xylene & p-Xylene         | Ave        | 0.6805  | 0.6179 |         | 0.0182      | 0.0200       | -9.2  | 20.0   |
| o-Xylene                    | Ave        | 0.6482  | 0.5857 |         | 0.0181      | 0.0200       | -9.6  | 20.0   |
| Styrene                     | Ave        | 1.110   | 1.017  | 0.3000  | 0.0183      | 0.0200       | -8.4  | 20.0   |
| Bromoform                   | Ave        | 0.2529  | 0.2173 | 0.1000  | 0.0172      | 0.0200       | -14.1 | 20.0   |
| Isopropylbenzene            | Ave        | 1.670   | 1.535  | 0.1000  | 0.0184      | 0.0200       | -8.1  | 20.0   |
| Bromobenzene                | Ave        | 0.7857  | 0.7205 |         | 0.0183      | 0.0200       | -8.3  | 20.0   |
| 1,1,2,2-Tetrachloroethane   | Ave        | 0.9796  | 0.9021 | 0.3000  | 0.0184      | 0.0200       | -7.9  | 20.0   |
| n-Propylbenzene             | Ave        | 0.8769  | 0.8324 |         | 0.0190      | 0.0200       | -5.1  | 20.0   |
| 1,2,3-Trichloropropane      | Ave        | 0.3516  | 0.3140 |         | 0.0179      | 0.0200       | -10.7 | 20.0   |
| trans-1,4-Dichloro-2-butene | Ave        | 0.3960  | 0.3622 |         | 0.0183      | 0.0200       | -8.6  | 20.0   |
| 2-Chlorotoluene             | Ave        | 0.7409  | 0.7072 |         | 0.0191      | 0.0200       | -4.5  | 20.0   |
| 1,3,5-Trimethylbenzene      | Ave        | 2.605   | 2.477  |         | 0.0190      | 0.0200       | -4.9  | 20.0   |
| 4-Chlorotoluene             | Ave        | 0.7929  | 0.7512 |         | 0.0189      | 0.0200       | -5.3  | 20.0   |
| tert-Butylbenzene           | Ave        | 2.197   | 2.074  |         | 0.0189      | 0.0200       | -5.6  | 20.0   |
| 1,2,4-Trimethylbenzene      | Ave        | 2.659   | 2.521  |         | 0.0190      | 0.0200       | -5.2  | 20.0   |
| sec-Butylbenzene            | Ave        | 0.6440  | 0.6219 |         | 0.0193      | 0.0200       | -3.4  | 20.0   |
| 1,3-Dichlorobenzene         | Ave        | 1.464   | 1.374  | 0.6000  | 0.0188      | 0.0200       | -6.1  | 20.0   |
| p-Isopropyltoluene          | Ave        | 2.692   | 2.577  |         | 0.0191      | 0.0200       | -4.3  | 20.0   |
| 1,4-Dichlorobenzene         | Ave        | 1.499   | 1.419  | 0.5000  | 0.0189      | 0.0200       | -5.3  | 20.0   |
| n-Butylbenzene              | Ave        | 2.276   | 2.185  |         | 0.0192      | 0.0200       | -4.0  | 20.0   |
| 1,2-Dichlorobenzene         | Ave        | 1.383   | 1.303  | 0.4000  | 0.0188      | 0.0200       | -5.8  | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCVIS 240-520596/3 Calibration Date: 03/23/2022 09:49  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000747.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        | 0.3090  | 0.2698 | 0.0500  | 0.0175      | 0.0200       | -12.7 | 50.0   |
| 1,2,4-Trichlorobenzene       | Ave        | 0.8158  | 0.7456 | 0.2000  | 0.0183      | 0.0200       | -8.6  | 50.0   |
| Hexachlorobutadiene          | Ave        | 0.3467  | 0.3204 |         | 0.0185      | 0.0200       | -7.6  | 50.0   |
| Naphthalene                  | Ave        | 2.649   | 2.389  |         | 0.0180      | 0.0200       | -9.8  | 50.0   |
| 1,2,3-Trichlorobenzene       | Ave        | 0.7728  | 0.7016 |         | 0.0182      | 0.0200       | -9.2  | 20.0   |
| Dibromofluoromethane (Surr)  | Ave        | 0.2333  | 0.2266 |         | 0.0218      | 0.0225       | -2.8  | 20.0   |
| 1,2-Dichloroethane-d4 (Surr) | Ave        | 0.2976  | 0.2661 |         | 0.0201      | 0.0225       | -10.6 | 20.0   |
| Toluene-d8 (Surr)            | Ave        | 1.298   | 1.189  |         | 0.0206      | 0.0225       | -8.4  | 20.0   |
| 4-Bromofluorobenzene (Surr)  | Ave        | 0.5013  | 0.4797 |         | 0.0215      | 0.0225       | -4.3  | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCV 240-520596/4 Calibration Date: 03/23/2022 10:14  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 20:28  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 22:30  
 Lab File ID: UX000749.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        | 0.0590  | 0.0456 |         | 0.155       | 0.200        | -22.7* | 20.0   |
| Diisopropyl ether             | Ave        | 0.2206  | 0.2015 |         | 0.0183      | 0.0200       | -8.7   | 20.0   |
| 2-Chloro-1,3-butadiene        | Ave        | 0.4122  | 0.3823 |         | 0.0185      | 0.0200       | -7.3   | 20.0   |
| Ethyl-t-butyl ether (ETBE)    | Ave        | 0.7777  | 0.7165 |         | 0.0184      | 0.0200       | -7.9   | 20.0   |
| Ethyl acetate                 | Ave        | 0.3889  | 0.3461 |         | 0.0356      | 0.0400       | -11.0  | 20.0   |
| Propionitrile                 | Ave        | 0.0659  | 0.0566 |         | 0.172       | 0.200        | -14.2  | 20.0   |
| Methacrylonitrile             | Ave        | 0.2291  | 0.2053 |         | 0.179       | 0.200        | -10.4  | 20.0   |
| Tert-amyl-methyl ether (TAME) | Ave        | 0.7931  | 0.7198 |         | 0.0182      | 0.0200       | -9.2   | 20.0   |
| n-Butanol                     | Ave        | 0.0151  | 0.0121 |         | 0.400       | 0.500        | -20.0  | 20.0   |
| Ethyl acrylate                | Ave        | 0.4649  | 0.4261 |         | 0.0183      | 0.0200       | -8.3   | 20.0   |
| Methyl methacrylate           | Ave        | 0.2995  | 0.2746 |         | 0.0367      | 0.0400       | -8.3   | 20.0   |
| 2-Nitropropane                | Ave        | 0.1276  | 0.1086 |         | 0.0340      | 0.0400       | -14.9  | 20.0   |
| n-Butyl acetate               | Ave        | 0.7114  | 0.6266 |         | 0.0176      | 0.0200       | -11.9  | 20.0   |
| 1-Chlorohexane                | Ave        | 0.4860  | 0.4530 |         | 0.0186      | 0.0200       | -6.8   | 20.0   |
| Cyclohexanone                 | Ave        | 0.0457  | 0.0364 |         | 0.160       | 0.200        | -20.2* | 20.0   |
| Pentachloroethane             | Ave        | 0.0457  | 0.3437 |         | 0.301       | 0.0400       | 651.7* | 20.0   |
| 1,2,3-Trimethylbenzene        | Ave        | 2.621   | 2.462  |         | 0.0188      | 0.0200       | -6.1   | 20.0   |
| Benzyl chloride               | Ave        | 0.3788  | 0.3988 |         | 0.0211      | 0.0200       | 5.3    | 20.0   |
| 1,3,5-Trichlorobenzene        | Ave        | 0.8615  | 0.8385 |         | 0.0195      | 0.0200       | -2.7   | 20.0   |
| 2-Methylnaphthalene           | Ave        | 1.008   | 0.8841 |         | 0.0351      | 0.0400       | -12.3  | 20.0   |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab File ID: BFB1496.D BFB Injection Date: 03/24/2022  
 Instrument ID: A3UX9 BFB Injection Time: 10:10  
 Analysis Batch No.: 520730

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 19.6                 |
| 75  | 30.0 - 60.0 % of mass 95           | 50.3                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.4                  |
| 173 | Less than 2.0 % of mass 174        | 0.1 (0.2) 1          |
| 174 | Greater than 50% of mass 95        | 73.3                 |
| 175 | 5.0 - 9.0 % of mass 174            | 5.6 (7.7) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 72.5 (98.9) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 4.6 (6.3) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
|                  | CCVIS 240-520730/3 | UX000779.D  | 03/24/2022    | 10:34         |
|                  | CCV 240-520730/4   | UX000780.D  | 03/24/2022    | 10:59         |
|                  | LCS 240-520730/5   | UX000781.D  | 03/24/2022    | 11:23         |
|                  | LCSD 240-520730/6  | UX000782.D  | 03/24/2022    | 11:48         |
|                  | MB 240-520730/9    | UX000785.D  | 03/24/2022    | 13:01         |
| MSA-SW37A-031122 | 240-163634-4       | UX000787.D  | 03/24/2022    | 13:50         |
| MSA-SW37B-031122 | 240-163634-5       | UX000788.D  | 03/24/2022    | 14:15         |
| MSA-SW41B-031122 | 240-163634-17      | UX000789.D  | 03/24/2022    | 14:39         |
| MSA-SW41C-031122 | 240-163634-18      | UX000790.D  | 03/24/2022    | 15:04         |
| MSA-SW41D-031122 | 240-163634-19      | UX000791.D  | 03/24/2022    | 15:28         |
| MSA-SW42A-031122 | 240-163634-20      | UX000792.D  | 03/24/2022    | 15:53         |
| MSA-SW42B-031122 | 240-163634-21      | UX000793.D  | 03/24/2022    | 16:17         |
| MSA-SW42C-031122 | 240-163634-22      | UX000794.D  | 03/24/2022    | 16:42         |
| MSA-SW42D-031122 | 240-163634-23      | UX000795.D  | 03/24/2022    | 17:06         |
| MSA-SW43A-031122 | 240-163634-24      | UX000796.D  | 03/24/2022    | 17:31         |
| MSA-SW43B-031122 | 240-163634-25      | UX000797.D  | 03/24/2022    | 17:55         |
| MSA-SW43C-031122 | 240-163634-26      | UX000798.D  | 03/24/2022    | 18:20         |
| MSA-SW43D-031122 | 240-163634-27      | UX000799.D  | 03/24/2022    | 18:44         |
| TB-031122        | 240-163634-28      | UX000800.D  | 03/24/2022    | 19:09         |
| MSA-SW46A-031122 | 240-163634-29      | UX000801.D  | 03/24/2022    | 19:33         |
| MSA-SW47A-031122 | 240-163634-30      | UX000802.D  | 03/24/2022    | 19:58         |
| MSA-SW48A-031122 | 240-163634-31      | UX000803.D  | 03/24/2022    | 20:22         |
| MSA-SW49A-031122 | 240-163634-32      | UX000804.D  | 03/24/2022    | 20:47         |
| MSA-SWEQB-031122 | 240-163634-33      | UX000805.D  | 03/24/2022    | 21:11         |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCVIS 240-520730/3 Calibration Date: 03/24/2022 10:34  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000779.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        | 0.2978  | 0.3571 | 0.1000  | 0.0240      | 0.0200       | 19.9  | 20.0   |
| Chloromethane                            | Ave        | 0.3182  | 0.3354 | 0.1000  | 0.0211      | 0.0200       | 5.4   | 20.0   |
| Vinyl chloride                           | Ave        | 0.3251  | 0.3451 | 0.1000  | 0.0212      | 0.0200       | 6.1   | 20.0   |
| Butadiene                                | Ave        | 0.2971  | 0.3206 |         | 0.0216      | 0.0200       | 7.9   | 20.0   |
| Bromomethane                             | Ave        | 0.2290  | 0.2155 | 0.0500  | 0.0188      | 0.0200       | -5.9  | 20.0   |
| Chloroethane                             | Ave        | 0.2161  | 0.2218 | 0.0500  | 0.0205      | 0.0200       | 2.6   | 20.0   |
| Dichlorofluoromethane                    | Ave        | 0.5199  | 0.4960 |         | 0.0191      | 0.0200       | -4.6  | 20.0   |
| Trichlorofluoromethane                   | Ave        | 0.4129  | 0.4437 | 0.1000  | 0.0215      | 0.0200       | 7.5   | 20.0   |
| Ethyl ether                              | Ave        | 0.2021  | 0.1942 |         | 0.0192      | 0.0200       | -3.9  | 20.0   |
| 1,1,2-Trichloro-1,2,2-trichf luoroethane | Ave        | 0.2264  | 0.2286 | 0.0500  | 0.0202      | 0.0200       | 1.0   | 20.0   |
| Acrolein                                 | Ave        | 0.0682  | 0.0712 |         | 0.104       | 0.100        | 4.3   | 20.0   |
| 1,1-Dichloroethene                       | Ave        | 0.3618  | 0.3549 | 0.1000  | 0.0196      | 0.0200       | -1.9  | 20.0   |
| Acetone                                  | Lin1       |         | 0.0383 | 0.0100  | 0.0348      | 0.0400       | -12.9 | 50.0   |
| Iodomethane                              | Ave        | 0.2887  | 0.2909 |         | 0.0202      | 0.0200       | 0.8   | 20.0   |
| Carbon disulfide                         | Ave        | 0.6884  | 0.6814 | 0.1000  | 0.0198      | 0.0200       | -1.0  | 20.0   |
| 3-Chloro-1-propene                       | Ave        | 0.3999  | 0.3880 |         | 0.0194      | 0.0200       | -3.0  | 20.0   |
| Methyl acetate                           | Ave        | 0.3182  | 0.2784 | 0.1000  | 0.0350      | 0.0400       | -12.5 | 50.0   |
| Methylene Chloride                       | Ave        | 0.3290  | 0.3123 | 0.1000  | 0.0190      | 0.0200       | -5.1  | 50.0   |
| tert-Butyl alcohol                       | Ave        | 0.0642  | 0.0552 |         | 0.172       | 0.200        | -14.0 | 20.0   |
| Methyl tert-butyl ether                  | Ave        | 0.7977  | 0.7587 | 0.1000  | 0.0190      | 0.0200       | -4.9  | 20.0   |
| trans-1,2-Dichloroethene                 | Ave        | 0.3550  | 0.3383 | 0.1000  | 0.0191      | 0.0200       | -4.7  | 20.0   |
| Acrylonitrile                            | Ave        | 0.1544  | 0.1469 |         | 0.190       | 0.200        | -4.8  | 20.0   |
| Hexane                                   | Ave        | 0.3320  | 0.3441 |         | 0.0207      | 0.0200       | 3.6   | 20.0   |
| 1,1-Dichloroethane                       | Ave        | 0.4604  | 0.4423 | 0.2000  | 0.0192      | 0.0200       | -3.9  | 20.0   |
| Vinyl acetate                            | Ave        | 0.5240  | 0.6249 |         | 0.0238      | 0.0200       | 19.2  | 20.0   |
| 2,2-Dichloropropane                      | Ave        | 0.4170  | 0.4124 |         | 0.0198      | 0.0200       | -1.1  | 20.0   |
| cis-1,2-Dichloroethene                   | Ave        | 0.2818  | 0.2728 | 0.1000  | 0.0194      | 0.0200       | -3.2  | 20.0   |
| 2-Butanone                               | Ave        | 0.0617  | 0.0572 | 0.0100  | 0.0371      | 0.0400       | -7.3  | 50.0   |
| Bromochloromethane                       | Ave        | 0.2102  | 0.2093 |         | 0.0199      | 0.0200       | -0.5  | 20.0   |
| Tetrahydrofuran                          | Ave        | 0.1485  | 0.1357 |         | 0.0366      | 0.0400       | -8.6  | 20.0   |
| Chloroform                               | Ave        | 0.4513  | 0.4308 | 0.2000  | 0.0191      | 0.0200       | -4.5  | 20.0   |
| Cyclohexane                              | Ave        | 0.3969  | 0.3993 | 0.1000  | 0.0201      | 0.0200       | 0.6   | 20.0   |
| 1,1,1-Trichloroethane                    | Ave        | 0.4061  | 0.3914 | 0.1000  | 0.0193      | 0.0200       | -3.6  | 20.0   |
| Carbon tetrachloride                     | Ave        | 0.3366  | 0.3196 | 0.1000  | 0.0190      | 0.0200       | -5.0  | 20.0   |
| 1,1-Dichloropropene                      | Ave        | 0.3684  | 0.3606 |         | 0.0196      | 0.0200       | -2.1  | 20.0   |
| Isobutyl alcohol                         | Ave        | 0.0180  | 0.0162 |         | 0.449       | 0.500        | -10.3 | 20.0   |
| Benzene                                  | Ave        | 1.074   | 1.037  | 0.5000  | 0.0193      | 0.0200       | -3.5  | 20.0   |
| 1,2-Dichloroethane                       | Ave        | 0.3597  | 0.3409 | 0.1000  | 0.0190      | 0.0200       | -5.2  | 20.0   |
| n-Heptane                                | Ave        | 0.1953  | 0.1887 |         | 0.0193      | 0.0200       | -3.4  | 20.0   |
| Trichloroethene                          | Ave        | 0.2794  | 0.2677 | 0.1500  | 0.0192      | 0.0200       | -4.2  | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCVIS 240-520730/3 Calibration Date: 03/24/2022 10:34  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000779.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        | 0.4055  | 0.4071 | 0.1000  | 0.0201      | 0.0200       | 0.4   | 20.0   |
| 1,2-Dichloropropane         | Ave        | 0.2587  | 0.2509 | 0.1000  | 0.0194      | 0.0200       | -3.0  | 20.0   |
| 1,4-Dioxane                 | Ave        | 0.0051  | 0.0045 |         | 0.351       | 0.400        | -12.3 | 50.0   |
| Dibromomethane              | Ave        | 0.1701  | 0.1610 |         | 0.0189      | 0.0200       | -5.4  | 20.0   |
| Bromodichloromethane        | Ave        | 0.3359  | 0.3217 | 0.1500  | 0.0192      | 0.0200       | -4.2  | 20.0   |
| 2-Chloroethyl vinyl ether   | Ave        | 0.2072  | 0.2028 |         | 0.0392      | 0.0400       | -2.1  | 20.0   |
| cis-1,3-Dichloropropene     | Ave        | 0.4370  | 0.4252 | 0.1500  | 0.0195      | 0.0200       | -2.7  | 50.0   |
| 4-Methyl-2-pentanone        | Ave        | 0.3982  | 0.3843 | 0.0500  | 0.0386      | 0.0400       | -3.5  | 50.0   |
| Toluene                     | Ave        | 1.577   | 1.492  | 0.4000  | 0.0189      | 0.0200       | -5.4  | 20.0   |
| trans-1,3-Dichloropropene   | Ave        | 0.5503  | 0.5211 | 0.1000  | 0.0189      | 0.0200       | -5.3  | 20.0   |
| Ethyl methacrylate          | Ave        | 0.5487  | 0.5172 |         | 0.0189      | 0.0200       | -5.7  | 20.0   |
| 1,1,2-Trichloroethane       | Ave        | 0.3183  | 0.3004 | 0.1000  | 0.0189      | 0.0200       | -5.6  | 20.0   |
| Tetrachloroethene           | Ave        | 0.3614  | 0.3520 | 0.1500  | 0.0195      | 0.0200       | -2.6  | 20.0   |
| 1,3-Dichloropropane         | Ave        | 0.5744  | 0.5410 |         | 0.0188      | 0.0200       | -5.8  | 20.0   |
| 2-Hexanone                  | Ave        | 0.4204  | 0.3976 | 0.0500  | 0.0378      | 0.0400       | -5.4  | 50.0   |
| Dibromochloromethane        | Ave        | 0.3324  | 0.3007 |         | 0.0181      | 0.0200       | -9.6  | 20.0   |
| 1,2-Dibromoethane           | Ave        | 0.3439  | 0.3249 |         | 0.0189      | 0.0200       | -5.5  | 20.0   |
| Chlorobenzene               | Ave        | 0.9772  | 0.9328 | 0.3000  | 0.0191      | 0.0200       | -4.5  | 20.0   |
| Ethylbenzene                | Ave        | 0.5379  | 0.5254 |         | 0.0195      | 0.0200       | -2.3  | 20.0   |
| 1,1,1,2-Tetrachloroethane   | Ave        | 0.3342  | 0.3198 |         | 0.0191      | 0.0200       | -4.3  | 20.0   |
| m-Xylene & p-Xylene         | Ave        | 0.6805  | 0.6465 |         | 0.0190      | 0.0200       | -5.0  | 20.0   |
| o-Xylene                    | Ave        | 0.6482  | 0.6222 |         | 0.0192      | 0.0200       | -4.0  | 20.0   |
| Styrene                     | Ave        | 1.110   | 1.087  | 0.3000  | 0.0196      | 0.0200       | -2.0  | 20.0   |
| Bromoform                   | Ave        | 0.2529  | 0.2171 | 0.1000  | 0.0172      | 0.0200       | -14.2 | 20.0   |
| Isopropylbenzene            | Ave        | 1.670   | 1.628  | 0.1000  | 0.0195      | 0.0200       | -2.5  | 20.0   |
| Bromobenzene                | Ave        | 0.7857  | 0.7431 |         | 0.0189      | 0.0200       | -5.4  | 20.0   |
| 1,1,2,2-Tetrachloroethane   | Ave        | 0.9796  | 0.9195 | 0.3000  | 0.0188      | 0.0200       | -6.1  | 20.0   |
| n-Propylbenzene             | Ave        | 0.8769  | 0.8414 |         | 0.0192      | 0.0200       | -4.1  | 20.0   |
| 1,2,3-Trichloropropane      | Ave        | 0.3516  | 0.3215 |         | 0.0183      | 0.0200       | -8.5  | 20.0   |
| trans-1,4-Dichloro-2-butene | Ave        | 0.3960  | 0.3767 |         | 0.0190      | 0.0200       | -4.9  | 20.0   |
| 2-Chlorotoluene             | Ave        | 0.7409  | 0.7260 |         | 0.0196      | 0.0200       | -2.0  | 20.0   |
| 1,3,5-Trimethylbenzene      | Ave        | 2.605   | 2.529  |         | 0.0194      | 0.0200       | -2.9  | 20.0   |
| 4-Chlorotoluene             | Ave        | 0.7929  | 0.7674 |         | 0.0194      | 0.0200       | -3.2  | 20.0   |
| tert-Butylbenzene           | Ave        | 2.197   | 2.115  |         | 0.0193      | 0.0200       | -3.7  | 20.0   |
| 1,2,4-Trimethylbenzene      | Ave        | 2.659   | 2.572  |         | 0.0194      | 0.0200       | -3.2  | 20.0   |
| sec-Butylbenzene            | Ave        | 0.6440  | 0.6352 |         | 0.0197      | 0.0200       | -1.4  | 20.0   |
| 1,3-Dichlorobenzene         | Ave        | 1.464   | 1.412  | 0.6000  | 0.0193      | 0.0200       | -3.5  | 20.0   |
| p-Isopropyltoluene          | Ave        | 2.692   | 2.620  |         | 0.0195      | 0.0200       | -2.7  | 20.0   |
| 1,4-Dichlorobenzene         | Ave        | 1.499   | 1.430  | 0.5000  | 0.0191      | 0.0200       | -4.6  | 20.0   |
| n-Butylbenzene              | Ave        | 2.276   | 2.236  |         | 0.0196      | 0.0200       | -1.8  | 20.0   |
| 1,2-Dichlorobenzene         | Ave        | 1.383   | 1.311  | 0.4000  | 0.0190      | 0.0200       | -5.2  | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCVIS 240-520730/3 Calibration Date: 03/24/2022 10:34  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000779.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        | 0.3090  | 0.2695 | 0.0500  | 0.0174      | 0.0200       | -12.8 | 50.0   |
| 1,2,4-Trichlorobenzene       | Ave        | 0.8158  | 0.7633 | 0.2000  | 0.0187      | 0.0200       | -6.4  | 50.0   |
| Hexachlorobutadiene          | Ave        | 0.3467  | 0.3290 |         | 0.0190      | 0.0200       | -5.1  | 50.0   |
| Naphthalene                  | Ave        | 2.649   | 2.436  |         | 0.0184      | 0.0200       | -8.0  | 50.0   |
| 1,2,3-Trichlorobenzene       | Ave        | 0.7728  | 0.7176 |         | 0.0186      | 0.0200       | -7.1  | 20.0   |
| Dibromofluoromethane (Surr)  | Ave        | 0.2333  | 0.2216 |         | 0.0213      | 0.0225       | -5.0  | 20.0   |
| 1,2-Dichloroethane-d4 (Surr) | Ave        | 0.2976  | 0.2602 |         | 0.0196      | 0.0225       | -12.6 | 20.0   |
| Toluene-d8 (Surr)            | Ave        | 1.298   | 1.204  |         | 0.0208      | 0.0225       | -7.2  | 20.0   |
| 4-Bromofluorobenzene (Surr)  | Ave        | 0.5013  | 0.4846 |         | 0.0217      | 0.0225       | -3.3  | 20.0   |



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCV 240-520730/4 Calibration Date: 03/24/2022 10:59  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 20:28  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 22:30  
 Lab File ID: UX000780.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        | 0.0590  | 0.0509 |         | 0.172       | 0.200        | -13.8  | 20.0   |
| Diisopropyl ether             | Ave        | 0.2206  | 0.2126 |         | 0.0193      | 0.0200       | -3.6   | 20.0   |
| 2-Chloro-1,3-butadiene        | Ave        | 0.4122  | 0.4069 |         | 0.0197      | 0.0200       | -1.3   | 20.0   |
| Ethyl-t-butyl ether (ETBE)    | Ave        | 0.7777  | 0.7577 |         | 0.0195      | 0.0200       | -2.6   | 20.0   |
| Ethyl acetate                 | Ave        | 0.3889  | 0.3724 |         | 0.0383      | 0.0400       | -4.2   | 20.0   |
| Propionitrile                 | Ave        | 0.0659  | 0.0629 |         | 0.191       | 0.200        | -4.5   | 20.0   |
| Methacrylonitrile             | Ave        | 0.2291  | 0.2209 |         | 0.193       | 0.200        | -3.5   | 20.0   |
| Tert-amyl-methyl ether (TAME) | Ave        | 0.7931  | 0.7706 |         | 0.0194      | 0.0200       | -2.8   | 20.0   |
| n-Butanol                     | Ave        | 0.0151  | 0.0140 |         | 0.465       | 0.500        | -6.9   | 20.0   |
| Ethyl acrylate                | Ave        | 0.4649  | 0.4483 |         | 0.0193      | 0.0200       | -3.6   | 20.0   |
| Methyl methacrylate           | Ave        | 0.2995  | 0.2943 |         | 0.0393      | 0.0400       | -1.7   | 20.0   |
| 2-Nitropropane                | Ave        | 0.1276  | 0.1171 |         | 0.0367      | 0.0400       | -8.2   | 20.0   |
| n-Butyl acetate               | Ave        | 0.7114  | 0.6750 |         | 0.0190      | 0.0200       | -5.1   | 20.0   |
| 1-Chlorohexane                | Ave        | 0.4860  | 0.4849 |         | 0.0200      | 0.0200       | -0.2   | 20.0   |
| Cyclohexanone                 | Ave        | 0.0457  | 0.0421 |         | 0.184       | 0.200        | -7.9   | 20.0   |
| Pentachloroethane             | Ave        | 0.0457  | 0.3703 |         | 0.324       | 0.0400       | 709.8* | 20.0   |
| 1,2,3-Trimethylbenzene        | Ave        | 2.621   | 2.653  |         | 0.0202      | 0.0200       | 1.2    | 20.0   |
| Benzyl chloride               | Ave        | 0.3788  | 0.4462 |         | 0.0236      | 0.0200       | 17.8   | 20.0   |
| 1,3,5-Trichlorobenzene        | Ave        | 0.8615  | 0.8911 |         | 0.0207      | 0.0200       | 3.4    | 20.0   |
| 2-Methylnaphthalene           | Ave        | 1.008   | 0.9404 |         | 0.0373      | 0.0400       | -6.7   | 20.0   |

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520426 Batch Start Date: 03/21/22 15:34 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID               | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | vm50is_stk_A<br>00010 | vm50ss 00468 | vm50ss_stk<br>00090 | vmarolistdw<br>00429 |
|-----------------------------|------------------|--------------|-------|---------------|-------------|-----------------------|--------------|---------------------|----------------------|
| BFB<br>240-520426/1         |                  | 8260C        |       | 5 mL          | 5 mL        |                       |              |                     |                      |
| STD8260<br>240-520426/8 IC  |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  | 0.4 uL       |                     | 0.4 uL               |
| STD8260<br>240-520426/9 IC  |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  | 0.8 uL       |                     | 0.8 uL               |
| STD8260<br>240-520426/10 IC |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  | 8 uL         |                     | 8 uL                 |
| ICIS<br>240-520426/11       |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  | 16 uL        |                     | 16 uL                |
| STD8260<br>240-520426/12 IC |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  | 24 uL        |                     | 24 uL                |
| STD8260<br>240-520426/13 IC |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  | 32 uL        |                     | 32 uL                |
| STD8260<br>240-520426/14 IC |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  | 48 uL        |                     | 48 uL                |
| ICV<br>240-520426/15        |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              | 2 uL                |                      |
| STDA9<br>240-520426/18 IC   |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              |                     |                      |
| STDA9<br>240-520426/19 IC   |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              |                     |                      |
| STDA9<br>240-520426/20 IC   |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              |                     |                      |
| STDA9<br>240-520426/21 IC   |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              |                     |                      |
| STDA9<br>240-520426/22 IC   |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              |                     |                      |
| STDA9<br>240-520426/23 IC   |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              |                     |                      |
| ICV<br>240-520426/24        |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              |                     |                      |

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520426 Batch Start Date: 03/21/22 15:34 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID               | Client Sample ID | Method Chain | Basis | vmbfb 00029 | vmfasa9w 00352 | vmfasaw 00410 | vmfasgw 00446 | vmfaspw 00436 | vmra9w 00428 |
|-----------------------------|------------------|--------------|-------|-------------|----------------|---------------|---------------|---------------|--------------|
| BFB<br>240-520426/1         |                  | 8260C        |       | 1 uL        |                |               |               |               |              |
| STD8260<br>240-520426/8 IC  |                  | 8260C        |       |             |                |               |               |               |              |
| STD8260<br>240-520426/9 IC  |                  | 8260C        |       |             |                |               |               |               |              |
| STD8260<br>240-520426/10 IC |                  | 8260C        |       |             |                |               |               |               |              |
| ICIS<br>240-520426/11       |                  | 8260C        |       |             |                |               |               |               |              |
| STD8260<br>240-520426/12 IC |                  | 8260C        |       |             |                |               |               |               |              |
| STD8260<br>240-520426/13 IC |                  | 8260C        |       |             |                |               |               |               |              |
| STD8260<br>240-520426/14 IC |                  | 8260C        |       |             |                |               |               |               |              |
| ICV<br>240-520426/15        |                  | 8260C        |       |             |                | 16 uL         | 16 uL         | 16 uL         |              |
| STDA9<br>240-520426/18 IC   |                  | 8260C        |       |             |                |               |               |               | 0.4 uL       |
| STDA9<br>240-520426/19 IC   |                  | 8260C        |       |             |                |               |               |               | 0.8 uL       |
| STDA9<br>240-520426/20 IC   |                  | 8260C        |       |             |                |               |               |               | 8 uL         |
| STDA9<br>240-520426/21 IC   |                  | 8260C        |       |             |                |               |               |               | 16 uL        |
| STDA9<br>240-520426/22 IC   |                  | 8260C        |       |             |                |               |               |               | 32 uL        |
| STDA9<br>240-520426/23 IC   |                  | 8260C        |       |             |                |               |               |               | 48 uL        |
| ICV<br>240-520426/24        |                  | 8260C        |       |             | 16 uL          |               |               |               |              |

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520426 Batch Start Date: 03/21/22 15:34 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID               | Client Sample ID | Method Chain | Basis | vmrgas 00419 | vmrprimw 00473 |  |  |  |  |
|-----------------------------|------------------|--------------|-------|--------------|----------------|--|--|--|--|
| BFB<br>240-520426/1         |                  | 8260C        |       |              |                |  |  |  |  |
| STD8260<br>240-520426/8 IC  |                  | 8260C        |       | 0.4 uL       | 0.4 uL         |  |  |  |  |
| STD8260<br>240-520426/9 IC  |                  | 8260C        |       | 0.8 uL       | 0.8 uL         |  |  |  |  |
| STD8260<br>240-520426/10 IC |                  | 8260C        |       | 8 uL         | 8 uL           |  |  |  |  |
| ICIS<br>240-520426/11       |                  | 8260C        |       | 16 uL        | 16 uL          |  |  |  |  |
| STD8260<br>240-520426/12 IC |                  | 8260C        |       | 24 uL        | 24 uL          |  |  |  |  |
| STD8260<br>240-520426/13 IC |                  | 8260C        |       | 32 uL        | 32 uL          |  |  |  |  |
| STD8260<br>240-520426/14 IC |                  | 8260C        |       | 48 uL        | 48 uL          |  |  |  |  |
| ICV<br>240-520426/15        |                  | 8260C        |       |              |                |  |  |  |  |
| STDA9<br>240-520426/18 IC   |                  | 8260C        |       |              |                |  |  |  |  |
| STDA9<br>240-520426/19 IC   |                  | 8260C        |       |              |                |  |  |  |  |
| STDA9<br>240-520426/20 IC   |                  | 8260C        |       |              |                |  |  |  |  |
| STDA9<br>240-520426/21 IC   |                  | 8260C        |       |              |                |  |  |  |  |
| STDA9<br>240-520426/22 IC   |                  | 8260C        |       |              |                |  |  |  |  |
| STDA9<br>240-520426/23 IC   |                  | 8260C        |       |              |                |  |  |  |  |
| ICV<br>240-520426/24        |                  | 8260C        |       |              |                |  |  |  |  |

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520426 Batch Start Date: 03/21/22 15:34 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Batch Notes |  |
|-------------|--|
|             |  |

| 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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520596 Batch Start Date: 03/23/22 09:25 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | Initial pH | vm50is_stk_A<br>00010 | vm50ss_stk<br>00090 | vmarolistdw<br>00429 |
|-----------------------|------------------|--------------|-------|---------------|-------------|------------|-----------------------|---------------------|----------------------|
| BFB<br>240-520596/1   |                  | 8260C        |       | 5 mL          | 5 mL        |            |                       |                     |                      |
| CCVIS<br>240-520596/3 |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  | 2.246 uL            | 16 uL                |
| CCV<br>240-520596/4   |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  |                     |                      |
| LCS<br>240-520596/5   |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  | 2.246 uL            |                      |
| MB 240-520596/8       |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-6        | MSA-SW37C-031122 | 8260C        | T     | 5 mL          | 5 mL        | 7 SU       | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-7        | MSA-SW37D-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-8        | MSA-SW38A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-9        | MSA-SW38B-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-10       | MSA-SW38C-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-11       | MSA-SW38D-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-12       | MSA-SW40A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-13       | MSA-SW40B-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-14       | MSA-SW40C-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-15       | MSA-SW40D-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-16       | MSA-SW41A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | vmbfb 00029 | vmfasaw 00410 | vmfasgw 00447 | vmfaspw 00437 | vmra9w 00428 | vmrgas 00420 |
|-----------------------|------------------|--------------|-------|-------------|---------------|---------------|---------------|--------------|--------------|
| BFB<br>240-520596/1   |                  | 8260C        |       | 1 uL        |               |               |               |              |              |
| CCVIS<br>240-520596/3 |                  | 8260C        |       |             |               |               |               |              | 16 uL        |
| CCV<br>240-520596/4   |                  | 8260C        |       |             |               |               |               | 16 uL        |              |
| LCS<br>240-520596/5   |                  | 8260C        |       |             | 16 uL         | 16 uL         | 16 uL         |              |              |
| MB 240-520596/8       |                  | 8260C        |       |             |               |               |               |              |              |
| 240-163634-B-6        | MSA-SW37C-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-7        | MSA-SW37D-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-8        | MSA-SW38A-031122 | 8260C        | T     |             |               |               |               |              |              |

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520596 Batch Start Date: 03/23/22 09:25 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

| Lab Sample ID   | Client Sample ID | Method Chain | Basis | vmbfb 00029 | vmfasaw 00410 | vmfasgw 00447 | vmfaspw 00437 | vmra9w 00428 | vmrgas 00420 |
|-----------------|------------------|--------------|-------|-------------|---------------|---------------|---------------|--------------|--------------|
| 240-163634-B-9  | MSA-SW38B-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-10 | MSA-SW38C-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-11 | MSA-SW38D-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-12 | MSA-SW40A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-13 | MSA-SW40B-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-14 | MSA-SW40C-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-15 | MSA-SW40D-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-16 | MSA-SW41A-031122 | 8260C        | T     |             |               |               |               |              |              |

| Lab Sample ID   | Client Sample ID | Method Chain | Basis | VMRPRIMW 00474 |  |  |  |  |  |
|-----------------|------------------|--------------|-------|----------------|--|--|--|--|--|
| BFB             |                  | 8260C        |       |                |  |  |  |  |  |
| 240-520596/1    |                  |              |       |                |  |  |  |  |  |
| CCVIS           |                  | 8260C        |       | 16 uL          |  |  |  |  |  |
| 240-520596/3    |                  |              |       |                |  |  |  |  |  |
| CCV             |                  | 8260C        |       |                |  |  |  |  |  |
| 240-520596/4    |                  |              |       |                |  |  |  |  |  |
| LCS             |                  | 8260C        |       |                |  |  |  |  |  |
| 240-520596/5    |                  |              |       |                |  |  |  |  |  |
| MB 240-520596/8 |                  | 8260C        |       |                |  |  |  |  |  |
| 240-163634-B-6  | MSA-SW37C-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-7  | MSA-SW37D-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-8  | MSA-SW38A-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-9  | MSA-SW38B-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-10 | MSA-SW38C-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-11 | MSA-SW38D-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-12 | MSA-SW40A-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-13 | MSA-SW40B-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-14 | MSA-SW40C-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-15 | MSA-SW40D-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-16 | MSA-SW41A-031122 | 8260C        | T     |                |  |  |  |  |  |

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520596 Batch Start Date: 03/23/22 09:25 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Batch Notes     |          |
|-----------------|----------|
| pH Indicator ID | HC157843 |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

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.



GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520730 Batch Start Date: 03/24/22 10:10 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | Initial pH | vm50is_stk_A<br>00010 | vm50ss_stk<br>00090 | vmarolistdw<br>00430 |
|-----------------------|------------------|--------------|-------|---------------|-------------|------------|-----------------------|---------------------|----------------------|
| BFB<br>240-520730/1   |                  | 8260C        |       | 5 mL          | 5 mL        |            |                       |                     |                      |
| CCVIS<br>240-520730/3 |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  | 2.246 uL            | 16 uL                |
| CCV<br>240-520730/4   |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  |                     |                      |
| LCS<br>240-520730/5   |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  | 2.246 uL            |                      |
| LCSD<br>240-520730/6  |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  | 2.246 uL            |                      |
| MB 240-520730/9       |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-4        | MSA-SW37A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-5        | MSA-SW37B-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-17       | MSA-SW41B-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-18       | MSA-SW41C-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-19       | MSA-SW41D-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-20       | MSA-SW42A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-21       | MSA-SW42B-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-22       | MSA-SW42C-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-23       | MSA-SW42D-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-24       | MSA-SW43A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-25       | MSA-SW43B-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-26       | MSA-SW43C-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-27       | MSA-SW43D-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-28       | TB-031122        | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-29       | MSA-SW46A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-30       | MSA-SW47A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-31       | MSA-SW48A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-32       | MSA-SW49A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-33       | MSA-SWEQB-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | vmbfb 00029 | vmfasaw 00411 | vmfasgw 00447 | vmfaspw 00437 | vmra9w 00429 | vmrgas 00420 |
|---------------|------------------|--------------|-------|-------------|---------------|---------------|---------------|--------------|--------------|
|---------------|------------------|--------------|-------|-------------|---------------|---------------|---------------|--------------|--------------|

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520730 Batch Start Date: 03/24/22 10:10 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | vmbfb 00029 | vmfasaw 00411 | vmfasgw 00447 | vmfaspw 00437 | vmra9w 00429 | vmrgas 00420 |
|-----------------------|------------------|--------------|-------|-------------|---------------|---------------|---------------|--------------|--------------|
| BFB<br>240-520730/1   |                  | 8260C        |       | 1 uL        |               |               |               |              |              |
| CCVIS<br>240-520730/3 |                  | 8260C        |       |             |               |               |               |              | 16 uL        |
| CCV<br>240-520730/4   |                  | 8260C        |       |             |               |               |               | 16 uL        |              |
| LCS<br>240-520730/5   |                  | 8260C        |       |             | 16 uL         | 16 uL         | 16 uL         |              |              |
| LCS<br>240-520730/6   |                  | 8260C        |       |             | 16 uL         | 16 uL         | 16 uL         |              |              |
| MB 240-520730/9       |                  | 8260C        |       |             |               |               |               |              |              |
| 240-163634-B-4        | MSA-SW37A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-5        | MSA-SW37B-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-17       | MSA-SW41B-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-18       | MSA-SW41C-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-19       | MSA-SW41D-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-20       | MSA-SW42A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-21       | MSA-SW42B-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-22       | MSA-SW42C-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-23       | MSA-SW42D-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-24       | MSA-SW43A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-25       | MSA-SW43B-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-26       | MSA-SW43C-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-27       | MSA-SW43D-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-28       | TB-031122        | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-29       | MSA-SW46A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-30       | MSA-SW47A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-31       | MSA-SW48A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-32       | MSA-SW49A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-33       | MSA-SWEQB-031122 | 8260C        | T     |             |               |               |               |              |              |

| Lab Sample ID       | Client Sample ID | Method Chain | Basis | VMRPRIMW 00474 |  |  |  |  |  |
|---------------------|------------------|--------------|-------|----------------|--|--|--|--|--|
| BFB<br>240-520730/1 |                  | 8260C        |       |                |  |  |  |  |  |

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520730 Batch Start Date: 03/24/22 10:10 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | VMRPRIMW 00474 |  |  |  |  |
|-----------------------|------------------|--------------|-------|----------------|--|--|--|--|
| CCVIS<br>240-520730/3 |                  | 8260C        |       | 16 uL          |  |  |  |  |
| CCV<br>240-520730/4   |                  | 8260C        |       |                |  |  |  |  |
| LCS<br>240-520730/5   |                  | 8260C        |       |                |  |  |  |  |
| LCS<br>240-520730/6   |                  | 8260C        |       |                |  |  |  |  |
| MB 240-520730/9       |                  | 8260C        |       |                |  |  |  |  |
| 240-163634-B-4        | MSA-SW37A-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-5        | MSA-SW37B-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-17       | MSA-SW41B-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-18       | MSA-SW41C-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-19       | MSA-SW41D-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-20       | MSA-SW42A-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-21       | MSA-SW42B-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-22       | MSA-SW42C-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-23       | MSA-SW42D-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-24       | MSA-SW43A-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-25       | MSA-SW43B-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-26       | MSA-SW43C-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-27       | MSA-SW43D-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-28       | TB-031122        | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-29       | MSA-SW46A-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-30       | MSA-SW47A-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-31       | MSA-SW48A-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-32       | MSA-SW49A-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-33       | MSA-SWEQB-031122 | 8260C        | T     |                |  |  |  |  |

| Batch Notes     |          |
|-----------------|----------|
| pH Indicator ID | HC157843 |

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520730 Batch Start Date: 03/24/22 10:10 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

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.

## ANALYTICAL REPORT

Job Number: 240-163634-1

SDG Number: MSA Frog Mortar Creek

Job Description: MSA Surface Water

For:

Tetra Tech, Inc.

20251 Century Blvd

Suite 200

Germantown, MD 20874

Attention: Samantha Brenner



Approved for release.  
Roxanne Cisneros  
Senior Project Manager  
3/28/2022 6:41 PM

---

Roxanne Cisneros, Senior Project Manager  
180 S. Van Buren Avenue, Barberton, OH, 44203  
(615)301-5761  
roxanne.cisneros@Eurofinset.com  
03/28/2022

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

### **Eurofins Canton**

180 S. Van Buren Avenue, Barberton, OH 44203

Tel (330) 497-9396 Fax (330) 497-0772 [www.EurofinsUS.com](http://www.EurofinsUS.com)

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# Definitions/Glossary

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description  |
|-----------|--|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U         | Indicates the analyte was analyzed for but not detected.   |

### GC/MS VOA TICs

| Qualifier | Qualifier Description  |
|-----------|--|
| J         | Indicates an Estimated Value for TICs  |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| N         | This flag indicates the presumptive evidence of a compound.  |
| T         | Result is a tentatively identified compound (TIC) and an estimated value.                                      |
| U         | Indicates the analyte was analyzed for but not detected.   |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| ▫              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CFU            | Colony Forming Unit   |
| 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)   |
| MCL            | EPA recommended "Maximum Contaminant Level"   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| MPN            | Most Probable Number  |
| MQL            | Method Quantitation Limit   |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| NEG            | Negative / Absent   |
| POS            | Positive / Present  |
| PQL            | Practical Quantitation Limit  |
| PRES           | Presumptive   |
| 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)   |
| TNTC           | Too Numerous To Count   |



**Job Narrative**  
**240-163634-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 3/12/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

**GC/MS VOA**

Method 8260C: The pH of sample MSA-SW37C-031122 (240-163634-6) was greater than 2. The sample was analyzed within the normal 14 day holding time; however, experimental evidence suggests that some aromatic compounds in wastewater samples, notably, Benzene, Toluene, and Ethylbenzene are susceptible to biological degradation if samples are not preserved to a pH of 2.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-520596 was outside the method criteria for 2-Methyl-2-propanol, Dichlorodi fluoromethane and Vinyl Acetate. 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-SW37C-031122 (240-163634-6), MSA-SW37D-031122 (240-163634-7), MSA-SW38A-031122 (240-163634-8), MSA-SW38B-031122 (240-163634-9), MSA-SW38C-031122 (240-163634-10), MSA-SW38D-031122 (240-163634-11), MSA-SW40A-031122 (240-163634-12), MSA-SW40B-031122 (240-163634-13), MSA-SW40C-031122 (240-163634-14), MSA-SW40D-031122 (240-163634-15), MSA-SW41A-031122 (240-163634-16) and (CCVIS 240-520596/3)

Method 8260C: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MSA-SW37C-031122 (240-163634-6), MSA-SW37D-031122 (240-163634-7), MSA-SW38A-031122 (240-163634-8), MSA-SW38B-031122 (240-163634-9), MSA-SW38C-031122 (240-163634-10), MSA-SW38D-031122 (240-163634-11), MSA-SW40A-031122 (240-163634-12), MSA-SW40B-031122 (240-163634-13), MSA-SW40C-031122 (240-163634-14), MSA-SW40D-031122 (240-163634-15) and MSA-SW41A-031122 (240-163634-16). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Methods 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-520730.

Method 8260C: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MSA-SW37A-031122 (240-163634-4), MSA-SW37B-031122 (240-163634-5), MSA-SW41B-031122 (240-163634-17), MSA-SW41C-031122 (240-163634-18), MSA-SW41D-031122 (240-163634-19), MSA-SW42A-031122 (240-163634-20), MSA-SW42B-031122 (240-163634-21), MSA-SW42C-031122 (240-163634-22), MSA-SW42D-031122 (240-163634-23), MSA-SW43A-031122 (240-163634-24), MSA-SW43B-031122 (240-163634-25), MSA-SW43C-031122 (240-163634-26), MSA-SW43D-031122 (240-163634-27), TB-031122 (240-163634-28), MSA-SW46A-031122 (240-163634-29), MSA-SW47A-031122 (240-163634-30), MSA-SW48A-031122 (240-163634-31), MSA-SW49A-031122 (240-163634-32) and MSA-SW49B-031122 (240-163634-33). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**VOA Prep**

No additional analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Detection Summary

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW37A-031122**

**Lab Sample ID: 240-163634-4**

No Detections.

**Client Sample ID: MSA-SW37B-031122**

**Lab Sample ID: 240-163634-5**

No Detections.

**Client Sample ID: MSA-SW37C-031122**

**Lab Sample ID: 240-163634-6**

No Detections.

**Client Sample ID: MSA-SW37D-031122**

**Lab Sample ID: 240-163634-7**

No Detections.

**Client Sample ID: MSA-SW38A-031122**

**Lab Sample ID: 240-163634-8**

No Detections.

**Client Sample ID: MSA-SW38B-031122**

**Lab Sample ID: 240-163634-9**

No Detections.

**Client Sample ID: MSA-SW38C-031122**

**Lab Sample ID: 240-163634-10**

No Detections.

**Client Sample ID: MSA-SW38D-031122**

**Lab Sample ID: 240-163634-11**

No Detections.

**Client Sample ID: MSA-SW40A-031122**

**Lab Sample ID: 240-163634-12**

No Detections.

**Client Sample ID: MSA-SW40B-031122**

**Lab Sample ID: 240-163634-13**

No Detections.

**Client Sample ID: MSA-SW40C-031122**

**Lab Sample ID: 240-163634-14**

No Detections.

**Client Sample ID: MSA-SW40D-031122**

**Lab Sample ID: 240-163634-15**

No Detections.

**Client Sample ID: MSA-SW41A-031122**

**Lab Sample ID: 240-163634-16**

No Detections.

**Client Sample ID: MSA-SW41B-031122**

**Lab Sample ID: 240-163634-17**

No Detections.

**Client Sample ID: MSA-SW41C-031122**

**Lab Sample ID: 240-163634-18**

No Detections.

**Client Sample ID: MSA-SW41D-031122**

**Lab Sample ID: 240-163634-19**

No Detections.

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW42A-031122**

**Lab Sample ID: 240-163634-20**

No Detections.

**Client Sample ID: MSA-SW42B-031122**

**Lab Sample ID: 240-163634-21**

No Detections.

**Client Sample ID: MSA-SW42C-031122**

**Lab Sample ID: 240-163634-22**

No Detections.

**Client Sample ID: MSA-SW42D-031122**

**Lab Sample ID: 240-163634-23**

No Detections.

**Client Sample ID: MSA-SW43A-031122**

**Lab Sample ID: 240-163634-24**

No Detections.

**Client Sample ID: MSA-SW43B-031122**

**Lab Sample ID: 240-163634-25**

No Detections.

**Client Sample ID: MSA-SW43C-031122**

**Lab Sample ID: 240-163634-26**

No Detections.

**Client Sample ID: MSA-SW43D-031122**

**Lab Sample ID: 240-163634-27**

No Detections.

**Client Sample ID: TB-031122**

**Lab Sample ID: 240-163634-28**

No Detections.

**Client Sample ID: MSA-SW46A-031122**

**Lab Sample ID: 240-163634-29**

No Detections.

**Client Sample ID: MSA-SW47A-031122**

**Lab Sample ID: 240-163634-30**

No Detections.

**Client Sample ID: MSA-SW48A-031122**

**Lab Sample ID: 240-163634-31**

No Detections.

**Client Sample ID: MSA-SW49A-031122**

**Lab Sample ID: 240-163634-32**

No Detections.

**Client Sample ID: MSA-SWEQB-031122**

**Lab Sample ID: 240-163634-33**

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| Acetone | 7.5    | J         | 10 | 5.4 | ug/L | 1       |   | 8260C  | Total/NA  |

This Detection Summary does not include radiochemical test results.

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW37A-031122**

**Lab Sample ID: 240-163634-4**

**Date Collected: 03/11/22 10:21**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 13:50 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 13:50 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 13:50 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 13:50 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 13:50 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,3-Dichloropropane         | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 2,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,1-Dichloropropene         | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Diisopropyl ether           | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Ethyl-t-butyl ether (ETBE)  | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Hexachlorobutadiene         | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 13:50 | 1       |
| Isopropylbenzene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Methylene Chloride          | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 13:50 | 1       |
| 4-Methyl-2-pentanone        | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Methyl tert-butyl ether     | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 13:50 | 1       |
| m-Xylene & p-Xylene         | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Naphthalene                 | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 13:50 | 1       |
| n-Butylbenzene              | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 13:50 | 1       |
| n-Propylbenzene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 13:50 | 1       |
| o-Xylene                    | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 13:50 | 1       |
| p-Isopropyltoluene          | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 13:50 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW37A-031122**

**Lab Sample ID: 240-163634-4**

**Date Collected: 03/11/22 10:21**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 13:50 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 13:50 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 13:50 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 13:50 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 13:50 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 13:50 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 13:50 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 13:50 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 13:50 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 98        |           | 56 - 136 |          | 03/24/22 13:50 | 1       |
| Dibromofluoromethane (Surr)  | 98        |           | 73 - 120 |          | 03/24/22 13:50 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 62 - 137 |          | 03/24/22 13:50 | 1       |
| Toluene-d8 (Surr)            | 93        |           | 78 - 122 |          | 03/24/22 13:50 | 1       |

**Client Sample ID: MSA-SW37B-031122**

**Lab Sample ID: 240-163634-5**

**Date Collected: 03/11/22 10:24**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone              | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 14:15 | 1       |
| Benzene              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Bromobenzene         | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Bromochloromethane   | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Bromodichloromethane | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Bromoform            | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Bromomethane         | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 2-Butanone           | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 14:15 | 1       |
| Carbon disulfide     | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Carbon tetrachloride | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 14:15 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW37B-031122**

**Lab Sample ID: 240-163634-5**

**Date Collected: 03/11/22 10:24**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chlorobenzene                 | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Chloroethane                  | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 2-Chloroethyl vinyl ether     | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 14:15 | 1       |
| Chloroform                    | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Chloromethane                 | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 2-Chlorotoluene               | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 4-Chlorotoluene               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 14:15 | 1       |
| cis-1,2-Dichloroethene        | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 14:15 | 1       |
| cis-1,3-Dichloropropene       | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Dibromochloromethane          | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,2-Dibromo-3-Chloropropane   | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,2-Dibromoethane             | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Dibromomethane                | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,2-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,3-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,4-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Dichlorodifluoromethane       | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,1-Dichloroethane            | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,2-Dichloroethane            | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,1-Dichloroethene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,2-Dichloropropane           | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,3-Dichloropropane           | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 2,2-Dichloropropane           | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,1-Dichloropropene           | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Diisopropyl ether             | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Ethylbenzene                  | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Ethyl-t-butyl ether (ETBE)    | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Hexachlorobutadiene           | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 2-Hexanone                    | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 14:15 | 1       |
| Isopropylbenzene              | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Methylene Chloride            | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 14:15 | 1       |
| 4-Methyl-2-pentanone          | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Methyl tert-butyl ether       | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 14:15 | 1       |
| m-Xylene & p-Xylene           | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Naphthalene                   | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 14:15 | 1       |
| n-Butylbenzene                | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 14:15 | 1       |
| n-Propylbenzene               | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 14:15 | 1       |
| o-Xylene                      | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 14:15 | 1       |
| p-Isopropyltoluene            | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 14:15 | 1       |
| sec-Butylbenzene              | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Styrene                       | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Tert-amyl-methyl ether (TAME) | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 14:15 | 1       |
| tert-Butyl alcohol            | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 14:15 | 1       |
| tert-Butylbenzene             | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,1,1,2-Tetrachloroethane     | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,1,2,2-Tetrachloroethane     | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Tetrachloroethene             | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Toluene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 14:15 | 1       |
| trans-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 14:15 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW37B-031122**

**Lab Sample ID: 240-163634-5**

Date Collected: 03/11/22 10:24

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 14:15 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 14:15 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 14:15 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 14:15 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 14:15 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 56 - 136 |          | 03/24/22 14:15 | 1       |
| Dibromofluoromethane (Surr)  | 98        |           | 73 - 120 |          | 03/24/22 14:15 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 62 - 137 |          | 03/24/22 14:15 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 78 - 122 |          | 03/24/22 14:15 | 1       |

**Client Sample ID: MSA-SW37C-031122**

**Lab Sample ID: 240-163634-6**

Date Collected: 03/11/22 10:28

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                   | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/23/22 16:22 | 1       |
| Benzene                   | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Bromobenzene              | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Bromochloromethane        | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Bromodichloromethane      | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Bromoform                 | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Bromomethane              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 2-Butanone                | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/23/22 16:22 | 1       |
| Carbon disulfide          | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Carbon tetrachloride      | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Chlorobenzene             | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Chloroethane              | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 2-Chloroethyl vinyl ether | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/23/22 16:22 | 1       |
| Chloroform                | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Chloromethane             | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 2-Chlorotoluene           | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 4-Chlorotoluene           | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 16:22 | 1       |
| cis-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/23/22 16:22 | 1       |
| cis-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Dibromochloromethane      | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/23/22 16:22 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW37C-031122**

**Lab Sample ID: 240-163634-6**

Date Collected: 03/11/22 10:28

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dibromo-3-Chloropropane           | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,2-Dibromoethane                     | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Dibromomethane                        | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,2-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,3-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,4-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Dichlorodifluoromethane               | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,1-Dichloroethane                    | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,2-Dichloroethane                    | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,1-Dichloroethene                    | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,3-Dichloropropane                   | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 2,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,1-Dichloropropene                   | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Diisopropyl ether                     | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Ethylbenzene                          | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Ethyl-t-butyl ether (ETBE)            | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Hexachlorobutadiene                   | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 2-Hexanone                            | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/23/22 16:22 | 1       |
| Isopropylbenzene                      | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/23/22 16:22 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 16:22 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/23/22 16:22 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 16:22 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 16:22 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 16:22 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/23/22 16:22 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/23/22 16:22 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/23/22 16:22 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 16:22 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/23/22 16:22 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/23/22 16:22 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 16:22 | 1       |



# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW37C-031122**

**Lab Sample ID: 240-163634-6**

**Date Collected: 03/11/22 10:28**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte        | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Vinyl acetate  | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Vinyl chloride | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 16:22 | 1       |
| Xylenes, Total | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 16:22 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/23/22 16:22 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/23/22 16:22 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 56 - 136 |          | 03/23/22 16:22 | 1       |
| Dibromofluoromethane (Surr)  | 102       |           | 73 - 120 |          | 03/23/22 16:22 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 62 - 137 |          | 03/23/22 16:22 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 78 - 122 |          | 03/23/22 16:22 | 1       |

**Client Sample ID: MSA-SW37D-031122**

**Lab Sample ID: 240-163634-7**

**Date Collected: 03/11/22 10:34**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/23/22 16:46 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/23/22 16:46 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/23/22 16:46 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 16:46 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/23/22 16:46 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 16:46 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW37D-031122**

**Lab Sample ID: 240-163634-7**

Date Collected: 03/11/22 10:34

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,3-Dichloropropane                   | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 2,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,1-Dichloropropene                   | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Diisopropyl ether                     | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Ethylbenzene                          | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Ethyl-t-butyl ether (ETBE)            | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Hexachlorobutadiene                   | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 2-Hexanone                            | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/23/22 16:46 | 1       |
| Isopropylbenzene                      | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/23/22 16:46 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 16:46 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/23/22 16:46 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 16:46 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 16:46 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 16:46 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/23/22 16:46 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/23/22 16:46 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/23/22 16:46 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 16:46 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/23/22 16:46 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/23/22 16:46 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 16:46 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 16:46 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   | 2.44 | 75-45-6 |          | 03/23/22 16:46 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |      |         |          | 03/23/22 16:46 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99        |           | 56 - 136 |          | 03/23/22 16:46 | 1       |
| Dibromofluoromethane (Surr) | 100       |           | 73 - 120 |          | 03/23/22 16:46 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW37D-031122**

**Lab Sample ID: 240-163634-7**

Date Collected: 03/11/22 10:34

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 62 - 137 |          | 03/23/22 16:46 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 78 - 122 |          | 03/23/22 16:46 | 1       |

**Client Sample ID: MSA-SW38A-031122**

**Lab Sample ID: 240-163634-8**

Date Collected: 03/11/22 09:15

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/23/22 17:11 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/23/22 17:11 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/23/22 17:11 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 17:11 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/23/22 17:11 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,3-Dichloropropane         | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 2,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,1-Dichloropropene         | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Diisopropyl ether           | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Ethyl-t-butyl ether (ETBE)  | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Hexachlorobutadiene         | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/23/22 17:11 | 1       |
| Isopropylbenzene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 17:11 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW38A-031122**

**Lab Sample ID: 240-163634-8**

**Date Collected: 03/11/22 09:15**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/23/22 17:11 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 17:11 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/23/22 17:11 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 17:11 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 17:11 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 17:11 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/23/22 17:11 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/23/22 17:11 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/23/22 17:11 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 17:11 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/23/22 17:11 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/23/22 17:11 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 17:11 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 17:11 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/23/22 17:11 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/23/22 17:11 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 101       |           | 56 - 136 |          | 03/23/22 17:11 | 1       |
| Dibromofluoromethane (Surr)  | 104       |           | 73 - 120 |          | 03/23/22 17:11 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 62 - 137 |          | 03/23/22 17:11 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 78 - 122 |          | 03/23/22 17:11 | 1       |

**Client Sample ID: MSA-SW38B-031122**

**Lab Sample ID: 240-163634-9**

**Date Collected: 03/11/22 09:22**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Acetone | 10     | U         | 10 | 5.4 | ug/L |   |          | 03/23/22 17:35 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW38B-031122**

**Lab Sample ID: 240-163634-9**

**Date Collected: 03/11/22 09:22**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/23/22 17:35 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/23/22 17:35 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 17:35 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/23/22 17:35 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,3-Dichloropropane         | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 2,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,1-Dichloropropene         | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Diisopropyl ether           | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Ethyl-t-butyl ether (ETBE)  | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Hexachlorobutadiene         | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/23/22 17:35 | 1       |
| Isopropylbenzene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Methylene Chloride          | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/23/22 17:35 | 1       |
| 4-Methyl-2-pentanone        | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Methyl tert-butyl ether     | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 17:35 | 1       |
| m-Xylene & p-Xylene         | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Naphthalene                 | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/23/22 17:35 | 1       |
| n-Butylbenzene              | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 17:35 | 1       |
| n-Propylbenzene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 17:35 | 1       |
| o-Xylene                    | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 17:35 | 1       |
| p-Isopropyltoluene          | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/23/22 17:35 | 1       |
| sec-Butylbenzene            | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/23/22 17:35 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW38B-031122**

**Lab Sample ID: 240-163634-9**

**Date Collected: 03/11/22 09:22**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/23/22 17:35 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/23/22 17:35 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 17:35 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/23/22 17:35 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/23/22 17:35 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 17:35 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 17:35 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/23/22 17:35 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/23/22 17:35 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 56 - 136 |          | 03/23/22 17:35 | 1       |
| Dibromofluoromethane (Surr)  | 100       |           | 73 - 120 |          | 03/23/22 17:35 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 62 - 137 |          | 03/23/22 17:35 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 78 - 122 |          | 03/23/22 17:35 | 1       |

**Client Sample ID: MSA-SW38C-031122**

**Lab Sample ID: 240-163634-10**

**Date Collected: 03/11/22 09:25**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone              | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/23/22 17:59 | 1       |
| Benzene              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Bromobenzene         | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Bromochloromethane   | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Bromodichloromethane | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Bromoform            | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Bromomethane         | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 2-Butanone           | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/23/22 17:59 | 1       |
| Carbon disulfide     | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Carbon tetrachloride | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Chlorobenzene        | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/23/22 17:59 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW38C-031122**

**Lab Sample ID: 240-163634-10**

**Date Collected: 03/11/22 09:25**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloroethane                  | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 2-Chloroethyl vinyl ether     | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/23/22 17:59 | 1       |
| Chloroform                    | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Chloromethane                 | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 2-Chlorotoluene               | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 4-Chlorotoluene               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 17:59 | 1       |
| cis-1,2-Dichloroethene        | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/23/22 17:59 | 1       |
| cis-1,3-Dichloropropene       | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Dibromochloromethane          | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,2-Dibromo-3-Chloropropane   | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,2-Dibromoethane             | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Dibromomethane                | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,2-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,3-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,4-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Dichlorodifluoromethane       | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,1-Dichloroethane            | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,2-Dichloroethane            | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,1-Dichloroethene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,2-Dichloropropane           | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,3-Dichloropropane           | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 2,2-Dichloropropane           | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,1-Dichloropropene           | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Diisopropyl ether             | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Ethylbenzene                  | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Ethyl-t-butyl ether (ETBE)    | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Hexachlorobutadiene           | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 2-Hexanone                    | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/23/22 17:59 | 1       |
| Isopropylbenzene              | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Methylene Chloride            | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/23/22 17:59 | 1       |
| 4-Methyl-2-pentanone          | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Methyl tert-butyl ether       | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 17:59 | 1       |
| m-Xylene & p-Xylene           | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Naphthalene                   | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/23/22 17:59 | 1       |
| n-Butylbenzene                | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 17:59 | 1       |
| n-Propylbenzene               | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 17:59 | 1       |
| o-Xylene                      | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 17:59 | 1       |
| p-Isopropyltoluene            | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/23/22 17:59 | 1       |
| sec-Butylbenzene              | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Styrene                       | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Tert-amyl-methyl ether (TAME) | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/23/22 17:59 | 1       |
| tert-Butyl alcohol            | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/23/22 17:59 | 1       |
| tert-Butylbenzene             | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,1,1,2-Tetrachloroethane     | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,1,2,2-Tetrachloroethane     | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Tetrachloroethene             | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Toluene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 17:59 | 1       |
| trans-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/23/22 17:59 | 1       |
| trans-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/23/22 17:59 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW38C-031122**

**Lab Sample ID: 240-163634-10**

Date Collected: 03/11/22 09:25

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/23/22 17:59 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 17:59 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 17:59 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/23/22 17:59 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/23/22 17:59 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 101       |           | 56 - 136 |          | 03/23/22 17:59 | 1       |
| Dibromofluoromethane (Surr)  | 101       |           | 73 - 120 |          | 03/23/22 17:59 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 62 - 137 |          | 03/23/22 17:59 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 78 - 122 |          | 03/23/22 17:59 | 1       |

**Client Sample ID: MSA-SW38D-031122**

**Lab Sample ID: 240-163634-11**

Date Collected: 03/11/22 09:27

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/23/22 18:24 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/23/22 18:24 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/23/22 18:24 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 18:24 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/23/22 18:24 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/23/22 18:24 | 1       |



# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW38D-031122**

**Lab Sample ID: 240-163634-11**

**Date Collected: 03/11/22 09:27**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dibromoethane                     | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Dibromomethane                        | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,2-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,3-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,4-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Dichlorodifluoromethane               | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,1-Dichloroethane                    | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,2-Dichloroethane                    | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,1-Dichloroethene                    | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,3-Dichloropropane                   | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 2,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,1-Dichloropropene                   | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Diisopropyl ether                     | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Ethylbenzene                          | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Ethyl-t-butyl ether (ETBE)            | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Hexachlorobutadiene                   | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 2-Hexanone                            | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/23/22 18:24 | 1       |
| Isopropylbenzene                      | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/23/22 18:24 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 18:24 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/23/22 18:24 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 18:24 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 18:24 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 18:24 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/23/22 18:24 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/23/22 18:24 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/23/22 18:24 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 18:24 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/23/22 18:24 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/23/22 18:24 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/23/22 18:24 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW38D-031122**

**Lab Sample ID: 240-163634-11**

Date Collected: 03/11/22 09:27

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte        | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Vinyl chloride | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 18:24 | 1       |
| Xylenes, Total | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 18:24 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/23/22 18:24 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/23/22 18:24 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 56 - 136 |          | 03/23/22 18:24 | 1       |
| Dibromofluoromethane (Surr)  | 102       |           | 73 - 120 |          | 03/23/22 18:24 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 62 - 137 |          | 03/23/22 18:24 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 78 - 122 |          | 03/23/22 18:24 | 1       |

**Client Sample ID: MSA-SW40A-031122**

**Lab Sample ID: 240-163634-12**

Date Collected: 03/11/22 09:39

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/23/22 18:48 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/23/22 18:48 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/23/22 18:48 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 18:48 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/23/22 18:48 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 18:48 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW40A-031122**

**Lab Sample ID: 240-163634-12**

**Date Collected: 03/11/22 09:39**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,3-Dichloropropane                   | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 2,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,1-Dichloropropene                   | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Diisopropyl ether                     | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Ethylbenzene                          | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Ethyl-t-butyl ether (ETBE)            | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Hexachlorobutadiene                   | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 2-Hexanone                            | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/23/22 18:48 | 1       |
| Isopropylbenzene                      | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/23/22 18:48 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 18:48 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/23/22 18:48 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 18:48 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 18:48 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 18:48 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/23/22 18:48 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/23/22 18:48 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/23/22 18:48 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 18:48 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/23/22 18:48 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/23/22 18:48 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 18:48 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 18:48 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/23/22 18:48 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/23/22 18:48 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 102       |           | 56 - 136 |          | 03/23/22 18:48 | 1       |
| Dibromofluoromethane (Surr)  | 101       |           | 73 - 120 |          | 03/23/22 18:48 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 99        |           | 62 - 137 |          | 03/23/22 18:48 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW40A-031122**

**Lab Sample ID: 240-163634-12**

Date Collected: 03/11/22 09:39

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Surrogate         | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 97        |           | 78 - 122 |          | 03/23/22 18:48 | 1       |

**Client Sample ID: MSA-SW40B-031122**

**Lab Sample ID: 240-163634-13**

Date Collected: 03/11/22 09:43

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/23/22 19:13 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/23/22 19:13 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/23/22 19:13 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 19:13 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/23/22 19:13 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,3-Dichloropropane         | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 2,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,1-Dichloropropene         | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Diisopropyl ether           | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Ethyl-t-butyl ether (ETBE)  | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Hexachlorobutadiene         | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/23/22 19:13 | 1       |
| Isopropylbenzene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Methylene Chloride          | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/23/22 19:13 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW40B-031122**

**Lab Sample ID: 240-163634-13**

Date Collected: 03/11/22 09:43

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 19:13 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/23/22 19:13 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 19:13 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 19:13 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 19:13 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/23/22 19:13 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/23/22 19:13 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/23/22 19:13 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 19:13 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/23/22 19:13 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/23/22 19:13 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 19:13 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 19:13 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   | 2.45 | 75-45-6 |          | 03/23/22 19:13 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |      |         |          | 03/23/22 19:13 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 101       |           | 56 - 136 |          | 03/23/22 19:13 | 1       |
| Dibromofluoromethane (Surr)  | 102       |           | 73 - 120 |          | 03/23/22 19:13 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 62 - 137 |          | 03/23/22 19:13 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 78 - 122 |          | 03/23/22 19:13 | 1       |

**Client Sample ID: MSA-SW40C-031122**

**Lab Sample ID: 240-163634-14**

Date Collected: 03/11/22 09:47

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/23/22 19:37 | 1       |
| Benzene | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 19:37 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW40C-031122**

**Lab Sample ID: 240-163634-14**

**Date Collected: 03/11/22 09:47**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/23/22 19:37 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/23/22 19:37 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 19:37 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/23/22 19:37 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,3-Dichloropropane         | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 2,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,1-Dichloropropene         | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Diisopropyl ether           | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Ethyl-t-butyl ether (ETBE)  | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Hexachlorobutadiene         | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/23/22 19:37 | 1       |
| Isopropylbenzene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Methylene Chloride          | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/23/22 19:37 | 1       |
| 4-Methyl-2-pentanone        | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Methyl tert-butyl ether     | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 19:37 | 1       |
| m-Xylene & p-Xylene         | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Naphthalene                 | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/23/22 19:37 | 1       |
| n-Butylbenzene              | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 19:37 | 1       |
| n-Propylbenzene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 19:37 | 1       |
| o-Xylene                    | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 19:37 | 1       |
| p-Isopropyltoluene          | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/23/22 19:37 | 1       |
| sec-Butylbenzene            | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 19:37 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW40C-031122**

**Lab Sample ID: 240-163634-14**

Date Collected: 03/11/22 09:47

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/23/22 19:37 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/23/22 19:37 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 19:37 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/23/22 19:37 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/23/22 19:37 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 19:37 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 19:37 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/23/22 19:37 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/23/22 19:37 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 101       |           | 56 - 136 |          | 03/23/22 19:37 | 1       |
| Dibromofluoromethane (Surr)  | 101       |           | 73 - 120 |          | 03/23/22 19:37 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 62 - 137 |          | 03/23/22 19:37 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 78 - 122 |          | 03/23/22 19:37 | 1       |

**Client Sample ID: MSA-SW40D-031122**

**Lab Sample ID: 240-163634-15**

Date Collected: 03/11/22 09:51

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone              | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/23/22 20:02 | 1       |
| Benzene              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Bromobenzene         | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Bromochloromethane   | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Bromodichloromethane | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Bromoform            | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Bromomethane         | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 2-Butanone           | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/23/22 20:02 | 1       |
| Carbon disulfide     | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Carbon tetrachloride | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Chlorobenzene        | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Chloroethane         | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 20:02 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW40D-031122**

**Lab Sample ID: 240-163634-15**

**Date Collected: 03/11/22 09:51**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 2-Chloroethyl vinyl ether     | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/23/22 20:02 | 1       |
| Chloroform                    | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Chloromethane                 | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 2-Chlorotoluene               | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 4-Chlorotoluene               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 20:02 | 1       |
| cis-1,2-Dichloroethene        | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/23/22 20:02 | 1       |
| cis-1,3-Dichloropropene       | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Dibromochloromethane          | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,2-Dibromo-3-Chloropropane   | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,2-Dibromoethane             | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Dibromomethane                | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,2-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,3-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,4-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Dichlorodifluoromethane       | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,1-Dichloroethane            | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,2-Dichloroethane            | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,1-Dichloroethene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,2-Dichloropropane           | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,3-Dichloropropane           | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 2,2-Dichloropropane           | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,1-Dichloropropene           | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Diisopropyl ether             | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Ethylbenzene                  | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Ethyl-t-butyl ether (ETBE)    | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Hexachlorobutadiene           | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 2-Hexanone                    | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/23/22 20:02 | 1       |
| Isopropylbenzene              | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Methylene Chloride            | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/23/22 20:02 | 1       |
| 4-Methyl-2-pentanone          | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Methyl tert-butyl ether       | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 20:02 | 1       |
| m-Xylene & p-Xylene           | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Naphthalene                   | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/23/22 20:02 | 1       |
| n-Butylbenzene                | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 20:02 | 1       |
| n-Propylbenzene               | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 20:02 | 1       |
| o-Xylene                      | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 20:02 | 1       |
| p-Isopropyltoluene            | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/23/22 20:02 | 1       |
| sec-Butylbenzene              | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Styrene                       | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Tert-amyl-methyl ether (TAME) | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/23/22 20:02 | 1       |
| tert-Butyl alcohol            | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/23/22 20:02 | 1       |
| tert-Butylbenzene             | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,1,1,2-Tetrachloroethane     | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,1,1,2-Tetrachloroethane     | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Tetrachloroethene             | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Toluene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 20:02 | 1       |
| trans-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/23/22 20:02 | 1       |
| trans-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,2,3-Trichlorobenzene        | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 20:02 | 1       |



# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW40D-031122**

**Lab Sample ID: 240-163634-15**

Date Collected: 03/11/22 09:51

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/23/22 20:02 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 20:02 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 20:02 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/23/22 20:02 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/23/22 20:02 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 102       |           | 56 - 136 |          | 03/23/22 20:02 | 1       |
| Dibromofluoromethane (Surr)  | 102       |           | 73 - 120 |          | 03/23/22 20:02 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 62 - 137 |          | 03/23/22 20:02 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 78 - 122 |          | 03/23/22 20:02 | 1       |

**Client Sample ID: MSA-SW41A-031122**

**Lab Sample ID: 240-163634-16**

Date Collected: 03/11/22 08:46

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/23/22 20:26 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/23/22 20:26 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/23/22 20:26 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 20:26 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/23/22 20:26 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 20:26 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW41A-031122**

**Lab Sample ID: 240-163634-16**

**Date Collected: 03/11/22 08:46**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dibromomethane                        | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,2-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,3-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,4-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Dichlorodifluoromethane               | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,1-Dichloroethane                    | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,2-Dichloroethane                    | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,1-Dichloroethene                    | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,3-Dichloropropane                   | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 2,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,1-Dichloropropene                   | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Diisopropyl ether                     | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Ethylbenzene                          | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Ethyl-t-butyl ether (ETBE)            | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Hexachlorobutadiene                   | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 2-Hexanone                            | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/23/22 20:26 | 1       |
| Isopropylbenzene                      | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/23/22 20:26 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/23/22 20:26 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/23/22 20:26 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 20:26 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/23/22 20:26 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/23/22 20:26 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/23/22 20:26 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/23/22 20:26 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/23/22 20:26 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 20:26 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/23/22 20:26 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/23/22 20:26 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/23/22 20:26 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/23/22 20:26 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW41A-031122**

**Lab Sample ID: 240-163634-16**

Date Collected: 03/11/22 08:46

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                                | Result             | Qualifier        | RL            | MDL      | Unit      | D              | Prepared        | Analyzed        | Dil Fac        |
|--|--------------------|------------------|---------------|----------|-----------|----------------|-----------------|-----------------|----------------|
| Xylenes, Total                         | 2.0                | U                | 2.0           | 0.42     | ug/L      |                |                 | 03/23/22 20:26  | 1              |
| <b>Tentatively Identified Compound</b> | <b>Est. Result</b> | <b>Qualifier</b> | <b>Unit</b>   | <b>D</b> | <b>RT</b> | <b>CAS No.</b> | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Chlorodifluoromethane TIC              | 1.0                | U                | ug/L          |          |           | 75-45-6        |                 | 03/23/22 20:26  | 1              |
| Tentatively Identified Compound        | None               |                  | ug/L          |          |           |                |                 | 03/23/22 20:26  | 1              |
| <b>Surrogate</b>                       | <b>%Recovery</b>   | <b>Qualifier</b> | <b>Limits</b> |          |           |                | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr)            | 100                |                  | 56 - 136      |          |           |                |                 | 03/23/22 20:26  | 1              |
| Dibromofluoromethane (Surr)            | 101                |                  | 73 - 120      |          |           |                |                 | 03/23/22 20:26  | 1              |
| 1,2-Dichloroethane-d4 (Surr)           | 99                 |                  | 62 - 137      |          |           |                |                 | 03/23/22 20:26  | 1              |
| Toluene-d8 (Surr)                      | 93                 |                  | 78 - 122      |          |           |                |                 | 03/23/22 20:26  | 1              |

**Client Sample ID: MSA-SW41B-031122**

**Lab Sample ID: 240-163634-17**

Date Collected: 03/11/22 08:48

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 14:39 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 14:39 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 14:39 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 14:39 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 14:39 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,3-Dichloropropane         | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 14:39 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW41B-031122**

**Lab Sample ID: 240-163634-17**

**Date Collected: 03/11/22 08:48**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 2,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,1-Dichloropropene                   | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Diisopropyl ether                     | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Ethylbenzene                          | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Ethyl-t-butyl ether (ETBE)            | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Hexachlorobutadiene                   | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 2-Hexanone                            | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 14:39 | 1       |
| Isopropylbenzene                      | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 14:39 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 14:39 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 14:39 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 14:39 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 14:39 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 14:39 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 14:39 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 14:39 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 14:39 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 14:39 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 14:39 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 14:39 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 14:39 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 14:39 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 14:39 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 14:39 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 97        |           | 56 - 136 |          | 03/24/22 14:39 | 1       |
| Dibromofluoromethane (Surr)  | 99        |           | 73 - 120 |          | 03/24/22 14:39 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 62 - 137 |          | 03/24/22 14:39 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 78 - 122 |          | 03/24/22 14:39 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW41C-031122**

**Lab Sample ID: 240-163634-18**

**Date Collected: 03/11/22 08:54**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 15:04 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 15:04 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 15:04 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 15:04 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 15:04 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,3-Dichloropropane         | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 2,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,1-Dichloropropene         | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Diisopropyl ether           | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Ethyl-t-butyl ether (ETBE)  | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Hexachlorobutadiene         | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 15:04 | 1       |
| Isopropylbenzene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Methylene Chloride          | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 15:04 | 1       |
| 4-Methyl-2-pentanone        | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Methyl tert-butyl ether     | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 15:04 | 1       |
| m-Xylene & p-Xylene         | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Naphthalene                 | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 15:04 | 1       |
| n-Butylbenzene              | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 15:04 | 1       |
| n-Propylbenzene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 15:04 | 1       |
| o-Xylene                    | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 15:04 | 1       |
| p-Isopropyltoluene          | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 15:04 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW41C-031122**

**Lab Sample ID: 240-163634-18**

Date Collected: 03/11/22 08:54

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 15:04 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 15:04 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 15:04 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 15:04 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 15:04 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 15:04 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 15:04 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 15:04 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 15:04 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 101       |           | 56 - 136 |          | 03/24/22 15:04 | 1       |
| Dibromofluoromethane (Surr)  | 98        |           | 73 - 120 |          | 03/24/22 15:04 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 62 - 137 |          | 03/24/22 15:04 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 78 - 122 |          | 03/24/22 15:04 | 1       |

**Client Sample ID: MSA-SW41D-031122**

**Lab Sample ID: 240-163634-19**

Date Collected: 03/11/22 08:59

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone              | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 15:28 | 1       |
| Benzene              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Bromobenzene         | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Bromochloromethane   | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Bromodichloromethane | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Bromoform            | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Bromomethane         | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 2-Butanone           | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 15:28 | 1       |
| Carbon disulfide     | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Carbon tetrachloride | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 15:28 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW41D-031122**

**Lab Sample ID: 240-163634-19**

**Date Collected: 03/11/22 08:59**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chlorobenzene                 | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Chloroethane                  | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 2-Chloroethyl vinyl ether     | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 15:28 | 1       |
| Chloroform                    | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Chloromethane                 | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 2-Chlorotoluene               | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 4-Chlorotoluene               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 15:28 | 1       |
| cis-1,2-Dichloroethene        | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 15:28 | 1       |
| cis-1,3-Dichloropropene       | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Dibromochloromethane          | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,2-Dibromo-3-Chloropropane   | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,2-Dibromoethane             | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Dibromomethane                | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,2-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,3-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,4-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Dichlorodifluoromethane       | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,1-Dichloroethane            | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,2-Dichloroethane            | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,1-Dichloroethene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,2-Dichloropropane           | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,3-Dichloropropane           | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 2,2-Dichloropropane           | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,1-Dichloropropene           | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Diisopropyl ether             | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Ethylbenzene                  | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Ethyl-t-butyl ether (ETBE)    | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Hexachlorobutadiene           | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 2-Hexanone                    | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 15:28 | 1       |
| Isopropylbenzene              | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Methylene Chloride            | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 15:28 | 1       |
| 4-Methyl-2-pentanone          | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Methyl tert-butyl ether       | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 15:28 | 1       |
| m-Xylene & p-Xylene           | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Naphthalene                   | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 15:28 | 1       |
| n-Butylbenzene                | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 15:28 | 1       |
| n-Propylbenzene               | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 15:28 | 1       |
| o-Xylene                      | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 15:28 | 1       |
| p-Isopropyltoluene            | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 15:28 | 1       |
| sec-Butylbenzene              | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Styrene                       | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Tert-amyl-methyl ether (TAME) | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 15:28 | 1       |
| tert-Butyl alcohol            | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 15:28 | 1       |
| tert-Butylbenzene             | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,1,1,2-Tetrachloroethane     | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,1,2,2-Tetrachloroethane     | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Tetrachloroethene             | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Toluene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 15:28 | 1       |
| trans-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 15:28 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW41D-031122**

**Lab Sample ID: 240-163634-19**

**Date Collected: 03/11/22 08:59**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 15:28 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 15:28 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 15:28 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 15:28 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 15:28 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 56 - 136 |          | 03/24/22 15:28 | 1       |
| Dibromofluoromethane (Surr)  | 99        |           | 73 - 120 |          | 03/24/22 15:28 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 62 - 137 |          | 03/24/22 15:28 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 78 - 122 |          | 03/24/22 15:28 | 1       |

**Client Sample ID: MSA-SW42A-031122**

**Lab Sample ID: 240-163634-20**

**Date Collected: 03/11/22 10:01**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                   | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 15:53 | 1       |
| Benzene                   | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Bromobenzene              | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Bromochloromethane        | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Bromodichloromethane      | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Bromoform                 | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Bromomethane              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 2-Butanone                | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 15:53 | 1       |
| Carbon disulfide          | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Carbon tetrachloride      | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Chlorobenzene             | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Chloroethane              | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 2-Chloroethyl vinyl ether | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 15:53 | 1       |
| Chloroform                | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Chloromethane             | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 2-Chlorotoluene           | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 4-Chlorotoluene           | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 15:53 | 1       |
| cis-1,2-Dichloroethene    | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 15:53 | 1       |
| cis-1,3-Dichloropropene   | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Dibromochloromethane      | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 15:53 | 1       |



# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW42A-031122**

**Lab Sample ID: 240-163634-20**

**Date Collected: 03/11/22 10:01**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dibromo-3-Chloropropane           | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,2-Dibromoethane                     | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Dibromomethane                        | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,2-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,3-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,4-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Dichlorodifluoromethane               | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,1-Dichloroethane                    | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,2-Dichloroethane                    | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,1-Dichloroethene                    | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,3-Dichloropropane                   | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 2,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,1-Dichloropropene                   | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Diisopropyl ether                     | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Ethylbenzene                          | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Ethyl-t-butyl ether (ETBE)            | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Hexachlorobutadiene                   | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 2-Hexanone                            | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 15:53 | 1       |
| Isopropylbenzene                      | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 15:53 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 15:53 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 15:53 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 15:53 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 15:53 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 15:53 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 15:53 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 15:53 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 15:53 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 15:53 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 15:53 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 15:53 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 15:53 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW42A-031122**

**Lab Sample ID: 240-163634-20**

Date Collected: 03/11/22 10:01

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte        | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Vinyl acetate  | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Vinyl chloride | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 15:53 | 1       |
| Xylenes, Total | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 15:53 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 15:53 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 15:53 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 100       |           | 56 - 136 |          | 03/24/22 15:53 | 1       |
| Dibromofluoromethane (Surr)  | 99        |           | 73 - 120 |          | 03/24/22 15:53 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 62 - 137 |          | 03/24/22 15:53 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 78 - 122 |          | 03/24/22 15:53 | 1       |

**Client Sample ID: MSA-SW42B-031122**

**Lab Sample ID: 240-163634-21**

Date Collected: 03/11/22 10:06

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 16:17 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 16:17 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 16:17 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 16:17 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 16:17 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 16:17 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW42B-031122**

**Lab Sample ID: 240-163634-21**

Date Collected: 03/11/22 10:06

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,3-Dichloropropane                   | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 2,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,1-Dichloropropene                   | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Diisopropyl ether                     | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Ethylbenzene                          | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Ethyl-t-butyl ether (ETBE)            | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Hexachlorobutadiene                   | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 2-Hexanone                            | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 16:17 | 1       |
| Isopropylbenzene                      | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 16:17 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 16:17 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 16:17 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 16:17 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 16:17 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 16:17 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 16:17 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 16:17 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 16:17 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 16:17 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 16:17 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 16:17 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 16:17 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 16:17 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 16:17 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 16:17 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97        |           | 56 - 136 |          | 03/24/22 16:17 | 1       |
| Dibromofluoromethane (Surr) | 98        |           | 73 - 120 |          | 03/24/22 16:17 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW42B-031122**

**Lab Sample ID: 240-163634-21**

Date Collected: 03/11/22 10:06

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 62 - 137 |          | 03/24/22 16:17 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 78 - 122 |          | 03/24/22 16:17 | 1       |

**Client Sample ID: MSA-SW42C-031122**

**Lab Sample ID: 240-163634-22**

Date Collected: 03/11/22 10:09

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 16:42 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 16:42 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 16:42 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 16:42 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 16:42 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,3-Dichloropropane         | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 2,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,1-Dichloropropene         | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Diisopropyl ether           | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Ethyl-t-butyl ether (ETBE)  | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Hexachlorobutadiene         | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 16:42 | 1       |
| Isopropylbenzene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 16:42 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW42C-031122**

**Lab Sample ID: 240-163634-22**

Date Collected: 03/11/22 10:09

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 16:42 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 16:42 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 16:42 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 16:42 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 16:42 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 16:42 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 16:42 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 16:42 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 16:42 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 16:42 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 16:42 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 16:42 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 16:42 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 16:42 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 16:42 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 16:42 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 101       |           | 56 - 136 |          | 03/24/22 16:42 | 1       |
| Dibromofluoromethane (Surr)  | 101       |           | 73 - 120 |          | 03/24/22 16:42 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 62 - 137 |          | 03/24/22 16:42 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 78 - 122 |          | 03/24/22 16:42 | 1       |

**Client Sample ID: MSA-SW42D-031122**

**Lab Sample ID: 240-163634-23**

Date Collected: 03/11/22 10:14

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|----|-----|------|---|----------|----------------|---------|
| Acetone | 10     | U         | 10 | 5.4 | ug/L |   |          | 03/24/22 17:06 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW42D-031122**

**Lab Sample ID: 240-163634-23**

**Date Collected: 03/11/22 10:14**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 17:06 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 17:06 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 17:06 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 17:06 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,3-Dichloropropane         | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 2,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,1-Dichloropropene         | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Diisopropyl ether           | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Ethyl-t-butyl ether (ETBE)  | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Hexachlorobutadiene         | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 17:06 | 1       |
| Isopropylbenzene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Methylene Chloride          | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 17:06 | 1       |
| 4-Methyl-2-pentanone        | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Methyl tert-butyl ether     | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 17:06 | 1       |
| m-Xylene & p-Xylene         | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Naphthalene                 | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 17:06 | 1       |
| n-Butylbenzene              | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 17:06 | 1       |
| n-Propylbenzene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 17:06 | 1       |
| o-Xylene                    | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 17:06 | 1       |
| p-Isopropyltoluene          | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 17:06 | 1       |
| sec-Butylbenzene            | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 17:06 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW42D-031122**

**Lab Sample ID: 240-163634-23**

**Date Collected: 03/11/22 10:14**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 17:06 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 17:06 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 17:06 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 17:06 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 17:06 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 17:06 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 17:06 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 17:06 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 17:06 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 100       |           | 56 - 136 |          | 03/24/22 17:06 | 1       |
| Dibromofluoromethane (Surr)  | 101       |           | 73 - 120 |          | 03/24/22 17:06 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 62 - 137 |          | 03/24/22 17:06 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 78 - 122 |          | 03/24/22 17:06 | 1       |

**Client Sample ID: MSA-SW43A-031122**

**Lab Sample ID: 240-163634-24**

**Date Collected: 03/11/22 08:18**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone              | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 17:31 | 1       |
| Benzene              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Bromobenzene         | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Bromochloromethane   | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Bromodichloromethane | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Bromoform            | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Bromomethane         | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 2-Butanone           | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 17:31 | 1       |
| Carbon disulfide     | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Carbon tetrachloride | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Chlorobenzene        | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 17:31 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW43A-031122**

**Lab Sample ID: 240-163634-24**

Date Collected: 03/11/22 08:18

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloroethane                  | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 2-Chloroethyl vinyl ether     | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 17:31 | 1       |
| Chloroform                    | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Chloromethane                 | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 2-Chlorotoluene               | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 4-Chlorotoluene               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 17:31 | 1       |
| cis-1,2-Dichloroethene        | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 17:31 | 1       |
| cis-1,3-Dichloropropene       | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Dibromochloromethane          | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,2-Dibromo-3-Chloropropane   | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,2-Dibromoethane             | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Dibromomethane                | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,2-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,3-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,4-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Dichlorodifluoromethane       | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,1-Dichloroethane            | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,2-Dichloroethane            | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,1-Dichloroethene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,2-Dichloropropane           | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,3-Dichloropropane           | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 2,2-Dichloropropane           | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,1-Dichloropropene           | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Diisopropyl ether             | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Ethylbenzene                  | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Ethyl-t-butyl ether (ETBE)    | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Hexachlorobutadiene           | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 2-Hexanone                    | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 17:31 | 1       |
| Isopropylbenzene              | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Methylene Chloride            | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 17:31 | 1       |
| 4-Methyl-2-pentanone          | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Methyl tert-butyl ether       | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 17:31 | 1       |
| m-Xylene & p-Xylene           | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Naphthalene                   | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 17:31 | 1       |
| n-Butylbenzene                | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 17:31 | 1       |
| n-Propylbenzene               | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 17:31 | 1       |
| o-Xylene                      | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 17:31 | 1       |
| p-Isopropyltoluene            | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 17:31 | 1       |
| sec-Butylbenzene              | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Styrene                       | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Tert-amyl-methyl ether (TAME) | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 17:31 | 1       |
| tert-Butyl alcohol            | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 17:31 | 1       |
| tert-Butylbenzene             | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,1,1,2-Tetrachloroethane     | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,1,2,2-Tetrachloroethane     | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Tetrachloroethene             | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Toluene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 17:31 | 1       |
| trans-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 17:31 | 1       |
| trans-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 17:31 | 1       |



# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW43A-031122**

**Lab Sample ID: 240-163634-24**

Date Collected: 03/11/22 08:18

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 17:31 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 17:31 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 17:31 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   | 2.54 | 75-45-6 |          | 03/24/22 17:31 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |      |         |          | 03/24/22 17:31 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 102       |           | 56 - 136 |          | 03/24/22 17:31 | 1       |
| Dibromofluoromethane (Surr)  | 100       |           | 73 - 120 |          | 03/24/22 17:31 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 99        |           | 62 - 137 |          | 03/24/22 17:31 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 78 - 122 |          | 03/24/22 17:31 | 1       |

**Client Sample ID: MSA-SW43B-031122**

**Lab Sample ID: 240-163634-25**

Date Collected: 03/11/22 08:24

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 17:55 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 17:55 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 17:55 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 17:55 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 17:55 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 17:55 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW43B-031122**

**Lab Sample ID: 240-163634-25**

Date Collected: 03/11/22 08:24

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dibromoethane                     | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Dibromomethane                        | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,2-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,3-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,4-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Dichlorodifluoromethane               | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,1-Dichloroethane                    | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,2-Dichloroethane                    | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,1-Dichloroethene                    | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,3-Dichloropropane                   | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 2,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,1-Dichloropropene                   | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Diisopropyl ether                     | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Ethylbenzene                          | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Ethyl-t-butyl ether (ETBE)            | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Hexachlorobutadiene                   | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 2-Hexanone                            | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 17:55 | 1       |
| Isopropylbenzene                      | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 17:55 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 17:55 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 17:55 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 17:55 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 17:55 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 17:55 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 17:55 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 17:55 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 17:55 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 17:55 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 17:55 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 17:55 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 17:55 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW43B-031122**

**Lab Sample ID: 240-163634-25**

Date Collected: 03/11/22 08:24

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte        | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Vinyl chloride | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 17:55 | 1       |
| Xylenes, Total | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 17:55 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   | 2.42 | 75-45-6 |          | 03/24/22 17:55 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |      |         |          | 03/24/22 17:55 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 56 - 136 |          | 03/24/22 17:55 | 1       |
| Dibromofluoromethane (Surr)  | 98        |           | 73 - 120 |          | 03/24/22 17:55 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 62 - 137 |          | 03/24/22 17:55 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 78 - 122 |          | 03/24/22 17:55 | 1       |

**Client Sample ID: MSA-SW43C-031122**

**Lab Sample ID: 240-163634-26**

Date Collected: 03/11/22 08:27

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 18:20 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 18:20 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 18:20 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 18:20 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 18:20 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 18:20 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW43C-031122**

**Lab Sample ID: 240-163634-26**

**Date Collected: 03/11/22 08:27**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,3-Dichloropropane                   | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 2,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,1-Dichloropropene                   | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Diisopropyl ether                     | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Ethylbenzene                          | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Ethyl-t-butyl ether (ETBE)            | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Hexachlorobutadiene                   | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 2-Hexanone                            | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 18:20 | 1       |
| Isopropylbenzene                      | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 18:20 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 18:20 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 18:20 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 18:20 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 18:20 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 18:20 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 18:20 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 18:20 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 18:20 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 18:20 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 18:20 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 18:20 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 18:20 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 18:20 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 18:20 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 18:20 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 100       |           | 56 - 136 |          | 03/24/22 18:20 | 1       |
| Dibromofluoromethane (Surr)  | 100       |           | 73 - 120 |          | 03/24/22 18:20 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 62 - 137 |          | 03/24/22 18:20 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

Client Sample ID: MSA-SW43C-031122

Lab Sample ID: 240-163634-26

Date Collected: 03/11/22 08:27

Matrix: Water

Date Received: 03/12/22 10:00

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Surrogate         | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 95        |           | 78 - 122 |          | 03/24/22 18:20 | 1       |

Client Sample ID: MSA-SW43D-031122

Lab Sample ID: 240-163634-27

Date Collected: 03/11/22 08:32

Matrix: Water

Date Received: 03/12/22 10:00

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 18:44 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 18:44 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 18:44 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 18:44 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 18:44 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,3-Dichloropropane         | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 2,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,1-Dichloropropene         | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Diisopropyl ether           | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Ethyl-t-butyl ether (ETBE)  | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Hexachlorobutadiene         | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 18:44 | 1       |
| Isopropylbenzene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Methylene Chloride          | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 18:44 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW43D-031122**

**Lab Sample ID: 240-163634-27**

**Date Collected: 03/11/22 08:32**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 18:44 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 18:44 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 18:44 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 18:44 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 18:44 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 18:44 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 18:44 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 18:44 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 18:44 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 18:44 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 18:44 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 18:44 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 18:44 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 18:44 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 18:44 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 102       |           | 56 - 136 |          | 03/24/22 18:44 | 1       |
| Dibromofluoromethane (Surr)  | 102       |           | 73 - 120 |          | 03/24/22 18:44 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 62 - 137 |          | 03/24/22 18:44 | 1       |
| Toluene-d8 (Surr)            | 96        |           | 78 - 122 |          | 03/24/22 18:44 | 1       |

**Client Sample ID: TB-031122**

**Lab Sample ID: 240-163634-28**

**Date Collected: 03/11/22 00:00**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 19:09 | 1       |
| Benzene | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 19:09 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: TB-031122**

**Lab Sample ID: 240-163634-28**

**Date Collected: 03/11/22 00:00**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 19:09 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 19:09 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 19:09 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 19:09 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,3-Dichloropropane         | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 2,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,1-Dichloropropene         | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Diisopropyl ether           | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Ethyl-t-butyl ether (ETBE)  | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Hexachlorobutadiene         | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 19:09 | 1       |
| Isopropylbenzene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Methylene Chloride          | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 19:09 | 1       |
| 4-Methyl-2-pentanone        | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Methyl tert-butyl ether     | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 19:09 | 1       |
| m-Xylene & p-Xylene         | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Naphthalene                 | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 19:09 | 1       |
| n-Butylbenzene              | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 19:09 | 1       |
| n-Propylbenzene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 19:09 | 1       |
| o-Xylene                    | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 19:09 | 1       |
| p-Isopropyltoluene          | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 19:09 | 1       |
| sec-Butylbenzene            | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Styrene                     | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 19:09 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: TB-031122**

**Lab Sample ID: 240-163634-28**

**Date Collected: 03/11/22 00:00**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 19:09 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 19:09 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 19:09 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 19:09 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 19:09 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 19:09 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 19:09 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 19:09 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 19:09 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 98        |           | 56 - 136 |          | 03/24/22 19:09 | 1       |
| Dibromofluoromethane (Surr)  | 98        |           | 73 - 120 |          | 03/24/22 19:09 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 62 - 137 |          | 03/24/22 19:09 | 1       |
| Toluene-d8 (Surr)            | 93        |           | 78 - 122 |          | 03/24/22 19:09 | 1       |

**Client Sample ID: MSA-SW46A-031122**

**Lab Sample ID: 240-163634-29**

**Date Collected: 03/11/22 09:57**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone              | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 19:33 | 1       |
| Benzene              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Bromobenzene         | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Bromochloromethane   | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Bromodichloromethane | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Bromoform            | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Bromomethane         | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 2-Butanone           | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 19:33 | 1       |
| Carbon disulfide     | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Carbon tetrachloride | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Chlorobenzene        | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Chloroethane         | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 19:33 | 1       |



# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW46A-031122**

**Lab Sample ID: 240-163634-29**

**Date Collected: 03/11/22 09:57**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 2-Chloroethyl vinyl ether     | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 19:33 | 1       |
| Chloroform                    | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Chloromethane                 | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 2-Chlorotoluene               | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 4-Chlorotoluene               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 19:33 | 1       |
| cis-1,2-Dichloroethene        | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 19:33 | 1       |
| cis-1,3-Dichloropropene       | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Dibromochloromethane          | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,2-Dibromo-3-Chloropropane   | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,2-Dibromoethane             | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Dibromomethane                | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,2-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,3-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,4-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Dichlorodifluoromethane       | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,1-Dichloroethane            | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,2-Dichloroethane            | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,1-Dichloroethene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,2-Dichloropropane           | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,3-Dichloropropane           | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 2,2-Dichloropropane           | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,1-Dichloropropene           | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Diisopropyl ether             | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Ethylbenzene                  | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Ethyl-t-butyl ether (ETBE)    | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Hexachlorobutadiene           | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 2-Hexanone                    | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 19:33 | 1       |
| Isopropylbenzene              | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Methylene Chloride            | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 19:33 | 1       |
| 4-Methyl-2-pentanone          | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Methyl tert-butyl ether       | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 19:33 | 1       |
| m-Xylene & p-Xylene           | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Naphthalene                   | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 19:33 | 1       |
| n-Butylbenzene                | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 19:33 | 1       |
| n-Propylbenzene               | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 19:33 | 1       |
| o-Xylene                      | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 19:33 | 1       |
| p-Isopropyltoluene            | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 19:33 | 1       |
| sec-Butylbenzene              | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Styrene                       | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Tert-amyl-methyl ether (TAME) | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 19:33 | 1       |
| tert-Butyl alcohol            | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 19:33 | 1       |
| tert-Butylbenzene             | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,1,1,2-Tetrachloroethane     | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,1,1,2,2-Tetrachloroethane   | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Tetrachloroethene             | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Toluene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 19:33 | 1       |
| trans-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 19:33 | 1       |
| trans-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,2,3-Trichlorobenzene        | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 19:33 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW46A-031122**

**Lab Sample ID: 240-163634-29**

Date Collected: 03/11/22 09:57

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 19:33 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 19:33 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 19:33 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 19:33 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 19:33 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 102       |           | 56 - 136 |          | 03/24/22 19:33 | 1       |
| Dibromofluoromethane (Surr)  | 103       |           | 73 - 120 |          | 03/24/22 19:33 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 101       |           | 62 - 137 |          | 03/24/22 19:33 | 1       |
| Toluene-d8 (Surr)            | 97        |           | 78 - 122 |          | 03/24/22 19:33 | 1       |

**Client Sample ID: MSA-SW47A-031122**

**Lab Sample ID: 240-163634-30**

Date Collected: 03/11/22 09:33

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 19:58 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 19:58 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 19:58 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 19:58 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 19:58 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 19:58 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW47A-031122**

**Lab Sample ID: 240-163634-30**

Date Collected: 03/11/22 09:33

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Dibromomethane                        | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,2-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,3-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,4-Dichlorobenzene                   | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Dichlorodifluoromethane               | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,1-Dichloroethane                    | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,2-Dichloroethane                    | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,1-Dichloroethene                    | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,3-Dichloropropane                   | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 2,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,1-Dichloropropene                   | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Diisopropyl ether                     | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Ethylbenzene                          | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Ethyl-t-butyl ether (ETBE)            | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Hexachlorobutadiene                   | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 2-Hexanone                            | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 19:58 | 1       |
| Isopropylbenzene                      | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 19:58 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 19:58 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 19:58 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 19:58 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 19:58 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 19:58 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 19:58 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 19:58 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 19:58 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 19:58 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 19:58 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 19:58 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 19:58 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 19:58 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW47A-031122**

**Lab Sample ID: 240-163634-30**

Date Collected: 03/11/22 09:33

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                                | Result             | Qualifier        | RL            | MDL      | Unit      | D              | Prepared        | Analyzed        | Dil Fac        |
|--|--------------------|------------------|---------------|----------|-----------|----------------|-----------------|-----------------|----------------|
| Xylenes, Total                         | 2.0                | U                | 2.0           | 0.42     | ug/L      |                |                 | 03/24/22 19:58  | 1              |
| <b>Tentatively Identified Compound</b> | <b>Est. Result</b> | <b>Qualifier</b> | <b>Unit</b>   | <b>D</b> | <b>RT</b> | <b>CAS No.</b> | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Chlorodifluoromethane TIC              | 1.0                | U                | ug/L          |          |           | 75-45-6        |                 | 03/24/22 19:58  | 1              |
| Tentatively Identified Compound        | None               |                  | ug/L          |          |           |                |                 | 03/24/22 19:58  | 1              |
| <b>Surrogate</b>                       | <b>%Recovery</b>   | <b>Qualifier</b> | <b>Limits</b> |          |           |                | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr)            | 100                |                  | 56 - 136      |          |           |                |                 | 03/24/22 19:58  | 1              |
| Dibromofluoromethane (Surr)            | 98                 |                  | 73 - 120      |          |           |                |                 | 03/24/22 19:58  | 1              |
| 1,2-Dichloroethane-d4 (Surr)           | 98                 |                  | 62 - 137      |          |           |                |                 | 03/24/22 19:58  | 1              |
| Toluene-d8 (Surr)                      | 94                 |                  | 78 - 122      |          |           |                |                 | 03/24/22 19:58  | 1              |

**Client Sample ID: MSA-SW48A-031122**

**Lab Sample ID: 240-163634-31**

Date Collected: 03/11/22 09:05

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 20:22 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 20:22 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 20:22 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 20:22 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 20:22 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,3-Dichloropropane         | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 20:22 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW48A-031122**

**Lab Sample ID: 240-163634-31**

**Date Collected: 03/11/22 09:05**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 2,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,1-Dichloropropene                   | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Diisopropyl ether                     | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Ethylbenzene                          | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Ethyl-t-butyl ether (ETBE)            | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Hexachlorobutadiene                   | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 2-Hexanone                            | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 20:22 | 1       |
| Isopropylbenzene                      | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 20:22 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 20:22 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 20:22 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 20:22 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 20:22 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 20:22 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 20:22 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 20:22 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 20:22 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 20:22 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 20:22 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 20:22 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 20:22 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 20:22 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT    | CAS No.  | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|-------|----------|----------|----------------|---------|
| 1-Hexanol, 2-ethyl-             | 2.1         | T J N     | ug/L |   | 10.90 | 104-76-7 |          | 03/24/22 20:22 | 1       |
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |       | 75-45-6  |          | 03/24/22 20:22 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 100       |           | 56 - 136 |          | 03/24/22 20:22 | 1       |
| Dibromofluoromethane (Surr)  | 99        |           | 73 - 120 |          | 03/24/22 20:22 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 62 - 137 |          | 03/24/22 20:22 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 78 - 122 |          | 03/24/22 20:22 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW49A-031122**

**Lab Sample ID: 240-163634-32**

**Date Collected: 03/11/22 08:38**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10     | U         | 10  | 5.4  | ug/L |   |          | 03/24/22 20:47 | 1       |
| Benzene                     | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Bromobenzene                | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Bromochloromethane          | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Bromodichloromethane        | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Bromoform                   | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 2-Butanone                  | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 20:47 | 1       |
| Carbon disulfide            | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Carbon tetrachloride        | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Chlorobenzene               | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Chloroethane                | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 2-Chloroethyl vinyl ether   | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 20:47 | 1       |
| Chloroform                  | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Chloromethane               | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 2-Chlorotoluene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 4-Chlorotoluene             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 20:47 | 1       |
| cis-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 20:47 | 1       |
| cis-1,3-Dichloropropene     | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Dibromochloromethane        | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,2-Dibromoethane           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Dibromomethane              | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,2-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,3-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,4-Dichlorobenzene         | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Dichlorodifluoromethane     | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,1-Dichloroethane          | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,2-Dichloroethane          | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,1-Dichloroethene          | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,3-Dichloropropane         | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 2,2-Dichloropropane         | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,1-Dichloropropene         | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Diisopropyl ether           | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Ethylbenzene                | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Ethyl-t-butyl ether (ETBE)  | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Hexachlorobutadiene         | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 2-Hexanone                  | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 20:47 | 1       |
| Isopropylbenzene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Methylene Chloride          | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 20:47 | 1       |
| 4-Methyl-2-pentanone        | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Methyl tert-butyl ether     | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 20:47 | 1       |
| m-Xylene & p-Xylene         | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Naphthalene                 | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 20:47 | 1       |
| n-Butylbenzene              | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 20:47 | 1       |
| n-Propylbenzene             | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 20:47 | 1       |
| o-Xylene                    | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 20:47 | 1       |
| p-Isopropyltoluene          | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 20:47 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW49A-031122**

**Lab Sample ID: 240-163634-32**

Date Collected: 03/11/22 08:38

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 20:47 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 20:47 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 20:47 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 20:47 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 20:47 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 20:47 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 20:47 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 20:47 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 20:47 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 99        |           | 56 - 136 |          | 03/24/22 20:47 | 1       |
| Dibromofluoromethane (Surr)  | 99        |           | 73 - 120 |          | 03/24/22 20:47 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 62 - 137 |          | 03/24/22 20:47 | 1       |
| Toluene-d8 (Surr)            | 93        |           | 78 - 122 |          | 03/24/22 20:47 | 1       |

**Client Sample ID: MSA-SWEQB-031122**

**Lab Sample ID: 240-163634-33**

Date Collected: 03/11/22 11:30

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

| Analyte              | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Acetone              | 7.5    | J         | 10  | 5.4  | ug/L |   |          | 03/24/22 21:11 | 1       |
| Benzene              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Bromobenzene         | 1.0    | U         | 1.0 | 0.50 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Bromochloromethane   | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Bromodichloromethane | 1.0    | U         | 1.0 | 0.17 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Bromoform            | 1.0    | U         | 1.0 | 0.76 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Bromomethane         | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 2-Butanone           | 10     | U         | 10  | 1.2  | ug/L |   |          | 03/24/22 21:11 | 1       |
| Carbon disulfide     | 1.0    | U         | 1.0 | 0.59 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Carbon tetrachloride | 1.0    | U         | 1.0 | 0.26 | ug/L |   |          | 03/24/22 21:11 | 1       |

# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SWEQB-031122**

**Lab Sample ID: 240-163634-33**

Date Collected: 03/11/22 11:30

Matrix: Water

Date Received: 03/12/22 10:00

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                       | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chlorobenzene                 | 1.0    | U         | 1.0 | 0.38 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Chloroethane                  | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 2-Chloroethyl vinyl ether     | 10     | U         | 10  | 1.5  | ug/L |   |          | 03/24/22 21:11 | 1       |
| Chloroform                    | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Chloromethane                 | 1.0    | U         | 1.0 | 0.63 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 2-Chlorotoluene               | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 4-Chlorotoluene               | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 21:11 | 1       |
| cis-1,2-Dichloroethene        | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 03/24/22 21:11 | 1       |
| cis-1,3-Dichloropropene       | 1.0    | U         | 1.0 | 0.61 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Dibromochloromethane          | 1.0    | U         | 1.0 | 0.39 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,2-Dibromo-3-Chloropropane   | 2.0    | U         | 2.0 | 0.91 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,2-Dibromoethane             | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Dibromomethane                | 1.0    | U         | 1.0 | 0.40 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,2-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,3-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,4-Dichlorobenzene           | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Dichlorodifluoromethane       | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,1-Dichloroethane            | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,2-Dichloroethane            | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,1-Dichloroethene            | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,2-Dichloropropane           | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,3-Dichloropropane           | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 2,2-Dichloropropane           | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,1-Dichloropropene           | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Diisopropyl ether             | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Ethylbenzene                  | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Ethyl-t-butyl ether (ETBE)    | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Hexachlorobutadiene           | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 2-Hexanone                    | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 21:11 | 1       |
| Isopropylbenzene              | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Methylene Chloride            | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 21:11 | 1       |
| 4-Methyl-2-pentanone          | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Methyl tert-butyl ether       | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 21:11 | 1       |
| m-Xylene & p-Xylene           | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Naphthalene                   | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 21:11 | 1       |
| n-Butylbenzene                | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 21:11 | 1       |
| n-Propylbenzene               | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 21:11 | 1       |
| o-Xylene                      | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 21:11 | 1       |
| p-Isopropyltoluene            | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 21:11 | 1       |
| sec-Butylbenzene              | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Styrene                       | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Tert-amyl-methyl ether (TAME) | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 21:11 | 1       |
| tert-Butyl alcohol            | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 21:11 | 1       |
| tert-Butylbenzene             | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,1,1,2-Tetrachloroethane     | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,1,1,2-Tetrachloroethane     | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Tetrachloroethene             | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Toluene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 21:11 | 1       |
| trans-1,2-Dichloroethene      | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 21:11 | 1       |



# Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SWEQB-031122**

**Lab Sample ID: 240-163634-33**

**Date Collected: 03/11/22 11:30**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

| Analyte                               | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 21:11 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 21:11 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 21:11 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------|----------------|---------|
| Chlorodifluoromethane TIC       | 1.0         | U         | ug/L |   |    | 75-45-6 |          | 03/24/22 21:11 | 1       |
| Tentatively Identified Compound | None        |           | ug/L |   |    |         |          | 03/24/22 21:11 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr)  | 98        |           | 56 - 136 |          | 03/24/22 21:11 | 1       |
| Dibromofluoromethane (Surr)  | 97        |           | 73 - 120 |          | 03/24/22 21:11 | 1       |
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 62 - 137 |          | 03/24/22 21:11 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 78 - 122 |          | 03/24/22 21:11 | 1       |

# Default Detection Limits

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                               | RL  | MDL  | Units |
|---------------------------------------|-----|------|-------|
| 1,1,1,2-Tetrachloroethane             | 1.0 | 0.43 | ug/L  |
| 1,1,1-Trichloroethane                 | 1.0 | 0.48 | ug/L  |
| 1,1,2,2-Tetrachloroethane             | 1.0 | 0.60 | ug/L  |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0 | 0.41 | ug/L  |
| 1,1-Dichloroethane                    | 1.0 | 0.47 | ug/L  |
| 1,1-Dichloroethene                    | 1.0 | 0.49 | ug/L  |
| 1,1-Dichloropropene                   | 1.0 | 0.36 | ug/L  |
| 1,2,3-Trichlorobenzene                | 1.0 | 0.54 | ug/L  |
| 1,2,3-Trichloropropane                | 1.0 | 0.52 | ug/L  |
| 1,2,3-Trimethylbenzene                | 5.0 | 0.31 | ug/L  |
| 1,2,4-Trichlorobenzene                | 1.0 | 0.77 | ug/L  |
| 1,2,4-Trimethylbenzene                | 1.0 | 0.52 | ug/L  |
| 1,2-Dibromo-3-Chloropropane           | 2.0 | 0.91 | ug/L  |
| 1,2-Dibromoethane                     | 1.0 | 0.41 | ug/L  |
| 1,2-Dichlorobenzene                   | 1.0 | 0.48 | ug/L  |
| 1,2-Dichloroethane                    | 1.0 | 0.21 | ug/L  |
| 1,2-Dichloropropane                   | 1.0 | 0.47 | ug/L  |
| 1,3-Dichlorobenzene                   | 1.0 | 0.45 | ug/L  |
| 1,3-Dichloropropane                   | 1.0 | 0.21 | ug/L  |
| 1,4-Dichlorobenzene                   | 1.0 | 0.41 | ug/L  |
| 2,2-Dichloropropane                   | 1.0 | 0.78 | ug/L  |
| 2-Butanone                            | 10  | 1.2  | ug/L  |
| 2-Chloroethyl vinyl ether             | 10  | 1.5  | ug/L  |
| 2-Chlorotoluene                       | 1.0 | 0.57 | ug/L  |
| 2-Hexanone                            | 10  | 1.1  | ug/L  |
| 4-Chlorotoluene                       | 1.0 | 0.43 | ug/L  |
| 4-Methyl-2-pentanone                  | 10  | 0.99 | ug/L  |
| Acetone                               | 10  | 5.4  | ug/L  |
| Benzene                               | 1.0 | 0.42 | ug/L  |
| Bromobenzene                          | 1.0 | 0.50 | ug/L  |
| Bromochloromethane                    | 1.0 | 0.54 | ug/L  |
| Bromodichloromethane                  | 1.0 | 0.17 | ug/L  |
| Bromoform                             | 1.0 | 0.76 | ug/L  |
| Bromomethane                          | 1.0 | 0.42 | ug/L  |
| Carbon disulfide                      | 1.0 | 0.59 | ug/L  |
| Carbon tetrachloride                  | 1.0 | 0.26 | ug/L  |
| Chlorobenzene                         | 1.0 | 0.38 | ug/L  |
| Chloroethane                          | 1.0 | 0.83 | ug/L  |
| Chloroform                            | 1.0 | 0.47 | ug/L  |
| Chloromethane                         | 1.0 | 0.63 | ug/L  |
| cis-1,2-Dichloroethene                | 1.0 | 0.46 | ug/L  |
| cis-1,3-Dichloropropene               | 1.0 | 0.61 | ug/L  |
| Dibromochloromethane                  | 1.0 | 0.39 | ug/L  |
| Dibromomethane                        | 1.0 | 0.40 | ug/L  |
| Dichlorodifluoromethane               | 1.0 | 0.35 | ug/L  |
| Diisopropyl ether                     | 10  | 0.17 | ug/L  |
| Ethylbenzene                          | 1.0 | 0.42 | ug/L  |
| Ethyl-t-butyl ether (ETBE)            | 5.0 | 0.40 | ug/L  |
| Hexachlorobutadiene                   | 1.0 | 0.83 | ug/L  |
| Isopropylbenzene                      | 1.0 | 0.49 | ug/L  |
| Methyl tert-butyl ether               | 1.0 | 0.47 | ug/L  |
| Methylene Chloride                    | 5.0 | 2.6  | ug/L  |
| m-Xylene & p-Xylene                   | 2.0 | 0.42 | ug/L  |

# Default Detection Limits

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                       | RL  | MDL  | Units |
|-------------------------------|-----|------|-------|
| Naphthalene                   | 1.0 | 0.80 | ug/L  |
| n-Butylbenzene                | 1.0 | 0.60 | ug/L  |
| n-Propylbenzene               | 1.0 | 0.57 | ug/L  |
| o-Xylene                      | 1.0 | 0.42 | ug/L  |
| p-Isopropyltoluene            | 1.0 | 0.56 | ug/L  |
| sec-Butylbenzene              | 1.0 | 0.53 | ug/L  |
| Styrene                       | 1.0 | 0.45 | ug/L  |
| Tert-amyl-methyl ether (TAME) | 5.0 | 0.43 | ug/L  |
| tert-Butyl alcohol            | 40  | 7.2  | ug/L  |
| tert-Butylbenzene             | 1.0 | 0.48 | ug/L  |
| Tetrachloroethene             | 1.0 | 0.44 | ug/L  |
| Toluene                       | 1.0 | 0.44 | ug/L  |
| trans-1,2-Dichloroethene      | 1.0 | 0.51 | ug/L  |
| trans-1,3-Dichloropropene     | 1.0 | 0.67 | ug/L  |
| Trichloroethene               | 1.0 | 0.44 | ug/L  |
| Trichlorofluoromethane        | 1.0 | 0.45 | ug/L  |
| Vinyl acetate                 | 2.0 | 0.61 | ug/L  |
| Vinyl chloride                | 1.0 | 0.45 | ug/L  |
| Xylenes, Total                | 2.0 | 0.42 | ug/L  |

# Surrogate Summary

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                  |                 |                 |
|-------------------|------------------------|--|------------------|-----------------|-----------------|
|                   |                        | BFB<br>(56-136)                                | DBFM<br>(73-120) | DCA<br>(62-137) | TOL<br>(78-122) |
| 240-163634-4      | MSA-SW37A-031122       | 98   | 98               | 96              | 93              |
| 240-163634-5      | MSA-SW37B-031122       | 99   | 98               | 96              | 94              |
| 240-163634-6      | MSA-SW37C-031122       | 99   | 102              | 98              | 95              |
| 240-163634-7      | MSA-SW37D-031122       | 99   | 100              | 97              | 95              |
| 240-163634-8      | MSA-SW38A-031122       | 101  | 104              | 98              | 96              |
| 240-163634-9      | MSA-SW38B-031122       | 99   | 100              | 95              | 95              |
| 240-163634-10     | MSA-SW38C-031122       | 101  | 101              | 98              | 96              |
| 240-163634-11     | MSA-SW38D-031122       | 99   | 102              | 96              | 94              |
| 240-163634-12     | MSA-SW40A-031122       | 102  | 101              | 99              | 97              |
| 240-163634-13     | MSA-SW40B-031122       | 101  | 102              | 97              | 95              |
| 240-163634-14     | MSA-SW40C-031122       | 101  | 101              | 97              | 95              |
| 240-163634-15     | MSA-SW40D-031122       | 102  | 102              | 97              | 96              |
| 240-163634-16     | MSA-SW41A-031122       | 100  | 101              | 99              | 93              |
| 240-163634-17     | MSA-SW41B-031122       | 97   | 99               | 96              | 92              |
| 240-163634-18     | MSA-SW41C-031122       | 101  | 98               | 97              | 94              |
| 240-163634-19     | MSA-SW41D-031122       | 99   | 99               | 97              | 95              |
| 240-163634-20     | MSA-SW42A-031122       | 100  | 99               | 100             | 95              |
| 240-163634-21     | MSA-SW42B-031122       | 97   | 98               | 96              | 92              |
| 240-163634-22     | MSA-SW42C-031122       | 101  | 101              | 101             | 96              |
| 240-163634-23     | MSA-SW42D-031122       | 100  | 101              | 98              | 94              |
| 240-163634-24     | MSA-SW43A-031122       | 102  | 100              | 99              | 96              |
| 240-163634-25     | MSA-SW43B-031122       | 99   | 98               | 97              | 92              |
| 240-163634-26     | MSA-SW43C-031122       | 100  | 100              | 98              | 95              |
| 240-163634-27     | MSA-SW43D-031122       | 102  | 102              | 100             | 96              |
| 240-163634-28     | TB-031122              | 98   | 98               | 97              | 93              |
| 240-163634-29     | MSA-SW46A-031122       | 102  | 103              | 101             | 97              |
| 240-163634-30     | MSA-SW47A-031122       | 100  | 98               | 98              | 94              |
| 240-163634-31     | MSA-SW48A-031122       | 100  | 99               | 98              | 95              |
| 240-163634-32     | MSA-SW49A-031122       | 99   | 99               | 96              | 93              |
| 240-163634-33     | MSA-SWEQB-031122       | 98   | 97               | 95              | 94              |
| LCS 240-520596/5  | Lab Control Sample     | 98   | 98               | 89              | 94              |
| LCS 240-520730/5  | Lab Control Sample     | 99   | 99               | 90              | 95              |
| LCSD 240-520730/6 | Lab Control Sample Dup | 98   | 97               | 90              | 94              |
| MB 240-520596/8   | Method Blank           | 101  | 104              | 97              | 97              |
| MB 240-520730/9   | Method Blank           | 98   | 98               | 93              | 94              |

### Surrogate Legend

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

# QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 240-520596/8**

**Matrix: Water**

**Analysis Batch: 520596**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Analyte                     | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10           | U               | 10  | 5.4  | ug/L |   |          | 03/23/22 11:52 | 1       |
| Benzene                     | 1.0          | U               | 1.0 | 0.42 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Bromobenzene                | 1.0          | U               | 1.0 | 0.50 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Bromochloromethane          | 1.0          | U               | 1.0 | 0.54 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Bromodichloromethane        | 1.0          | U               | 1.0 | 0.17 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Bromoform                   | 1.0          | U               | 1.0 | 0.76 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Bromomethane                | 1.0          | U               | 1.0 | 0.42 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 2-Butanone                  | 10           | U               | 10  | 1.2  | ug/L |   |          | 03/23/22 11:52 | 1       |
| Carbon disulfide            | 1.0          | U               | 1.0 | 0.59 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Carbon tetrachloride        | 1.0          | U               | 1.0 | 0.26 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Chlorobenzene               | 1.0          | U               | 1.0 | 0.38 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Chloroethane                | 1.0          | U               | 1.0 | 0.83 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 2-Chloroethyl vinyl ether   | 10           | U               | 10  | 1.5  | ug/L |   |          | 03/23/22 11:52 | 1       |
| Chloroform                  | 1.0          | U               | 1.0 | 0.47 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Chloromethane               | 1.0          | U               | 1.0 | 0.63 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 2-Chlorotoluene             | 1.0          | U               | 1.0 | 0.57 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 4-Chlorotoluene             | 1.0          | U               | 1.0 | 0.43 | ug/L |   |          | 03/23/22 11:52 | 1       |
| cis-1,2-Dichloroethene      | 1.0          | U               | 1.0 | 0.46 | ug/L |   |          | 03/23/22 11:52 | 1       |
| cis-1,3-Dichloropropene     | 1.0          | U               | 1.0 | 0.61 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Dibromochloromethane        | 1.0          | U               | 1.0 | 0.39 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0          | U               | 2.0 | 0.91 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,2-Dibromoethane           | 1.0          | U               | 1.0 | 0.41 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Dibromomethane              | 1.0          | U               | 1.0 | 0.40 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,2-Dichlorobenzene         | 1.0          | U               | 1.0 | 0.48 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,3-Dichlorobenzene         | 1.0          | U               | 1.0 | 0.45 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,4-Dichlorobenzene         | 1.0          | U               | 1.0 | 0.41 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Dichlorodifluoromethane     | 1.0          | U               | 1.0 | 0.35 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,1-Dichloroethane          | 1.0          | U               | 1.0 | 0.47 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,2-Dichloroethane          | 1.0          | U               | 1.0 | 0.21 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,1-Dichloroethene          | 1.0          | U               | 1.0 | 0.49 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,2-Dichloropropane         | 1.0          | U               | 1.0 | 0.47 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,3-Dichloropropane         | 1.0          | U               | 1.0 | 0.21 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 2,2-Dichloropropane         | 1.0          | U               | 1.0 | 0.78 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,1-Dichloropropene         | 1.0          | U               | 1.0 | 0.36 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Diisopropyl ether           | 10           | U               | 10  | 0.17 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Ethylbenzene                | 1.0          | U               | 1.0 | 0.42 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Ethyl-t-butyl ether (ETBE)  | 5.0          | U               | 5.0 | 0.40 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Hexachlorobutadiene         | 1.0          | U               | 1.0 | 0.83 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 2-Hexanone                  | 10           | U               | 10  | 1.1  | ug/L |   |          | 03/23/22 11:52 | 1       |
| Isopropylbenzene            | 1.0          | U               | 1.0 | 0.49 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Methylene Chloride          | 5.0          | U               | 5.0 | 2.6  | ug/L |   |          | 03/23/22 11:52 | 1       |
| 4-Methyl-2-pentanone        | 10           | U               | 10  | 0.99 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Methyl tert-butyl ether     | 1.0          | U               | 1.0 | 0.47 | ug/L |   |          | 03/23/22 11:52 | 1       |
| m-Xylene & p-Xylene         | 2.0          | U               | 2.0 | 0.42 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Naphthalene                 | 1.0          | U               | 1.0 | 0.80 | ug/L |   |          | 03/23/22 11:52 | 1       |
| n-Butylbenzene              | 1.0          | U               | 1.0 | 0.60 | ug/L |   |          | 03/23/22 11:52 | 1       |
| n-Propylbenzene             | 1.0          | U               | 1.0 | 0.57 | ug/L |   |          | 03/23/22 11:52 | 1       |
| o-Xylene                    | 1.0          | U               | 1.0 | 0.42 | ug/L |   |          | 03/23/22 11:52 | 1       |

# QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 240-520596/8**  
**Matrix: Water**  
**Analysis Batch: 520596**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                               | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| p-Isopropyltoluene                    | 1.0          | U               | 1.0 | 0.56 | ug/L |   |          | 03/23/22 11:52 | 1       |
| sec-Butylbenzene                      | 1.0          | U               | 1.0 | 0.53 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Styrene                               | 1.0          | U               | 1.0 | 0.45 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0          | U               | 5.0 | 0.43 | ug/L |   |          | 03/23/22 11:52 | 1       |
| tert-Butyl alcohol                    | 40           | U               | 40  | 7.2  | ug/L |   |          | 03/23/22 11:52 | 1       |
| tert-Butylbenzene                     | 1.0          | U               | 1.0 | 0.48 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0          | U               | 1.0 | 0.43 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0          | U               | 1.0 | 0.60 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Tetrachloroethene                     | 1.0          | U               | 1.0 | 0.44 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Toluene                               | 1.0          | U               | 1.0 | 0.44 | ug/L |   |          | 03/23/22 11:52 | 1       |
| trans-1,2-Dichloroethene              | 1.0          | U               | 1.0 | 0.51 | ug/L |   |          | 03/23/22 11:52 | 1       |
| trans-1,3-Dichloropropene             | 1.0          | U               | 1.0 | 0.67 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0          | U               | 1.0 | 0.54 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0          | U               | 1.0 | 0.77 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,1,1-Trichloroethane                 | 1.0          | U               | 1.0 | 0.48 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Trichloroethene                       | 1.0          | U               | 1.0 | 0.44 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Trichlorofluoromethane                | 1.0          | U               | 1.0 | 0.45 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,2,3-Trichloropropane                | 1.0          | U               | 1.0 | 0.52 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0          | U               | 1.0 | 0.41 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0          | U               | 5.0 | 0.31 | ug/L |   |          | 03/23/22 11:52 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0          | U               | 1.0 | 0.52 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Vinyl acetate                         | 2.0          | U               | 2.0 | 0.61 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Vinyl chloride                        | 1.0          | U               | 1.0 | 0.45 | ug/L |   |          | 03/23/22 11:52 | 1       |
| Xylenes, Total                        | 2.0          | U               | 2.0 | 0.42 | ug/L |   |          | 03/23/22 11:52 | 1       |

| <i>Tentatively Identified Compound</i> | <i>MB</i><br><i>Est. Result</i> | <i>MB</i><br><i>Qualifier</i> | <i>Unit</i> | <i>D</i> | <i>RT</i> | <i>CAS No.</i> | <i>Prepared</i> | <i>Analyzed</i>       | <i>Dil Fac</i> |
|--|---------------------------------|-------------------------------|-------------|----------|-----------|----------------|-----------------|-----------------------|----------------|
| <i>Tentatively Identified Compound</i> | <i>None</i>                     |                               | <i>ug/L</i> |          |           |                |                 | <i>03/23/22 11:52</i> | <i>1</i>       |

| <i>Surrogate</i>                    | <i>MB</i><br><i>%Recovery</i> | <i>MB</i><br><i>Qualifier</i> | <i>Limits</i>   | <i>Prepared</i> | <i>Analyzed</i>       | <i>Dil Fac</i> |
|-------------------------------------|-------------------------------|-------------------------------|-----------------|-----------------|-----------------------|----------------|
| <i>4-Bromofluorobenzene (Surr)</i>  | <i>101</i>                    |                               | <i>56 - 136</i> |                 | <i>03/23/22 11:52</i> | <i>1</i>       |
| <i>Dibromofluoromethane (Surr)</i>  | <i>104</i>                    |                               | <i>73 - 120</i> |                 | <i>03/23/22 11:52</i> | <i>1</i>       |
| <i>1,2-Dichloroethane-d4 (Surr)</i> | <i>97</i>                     |                               | <i>62 - 137</i> |                 | <i>03/23/22 11:52</i> | <i>1</i>       |
| <i>Toluene-d8 (Surr)</i>            | <i>97</i>                     |                               | <i>78 - 122</i> |                 | <i>03/23/22 11:52</i> | <i>1</i>       |

**Lab Sample ID: LCS 240-520596/5**  
**Matrix: Water**  
**Analysis Batch: 520596**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte              | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Acetone              | 40.0           | 40.7          |                  | ug/L |   | 102  | 50 - 149        |
| Benzene              | 20.0           | 22.6          |                  | ug/L |   | 113  | 77 - 123        |
| Bromobenzene         | 20.0           | 22.4          |                  | ug/L |   | 112  | 80 - 122        |
| Bromochloromethane   | 20.0           | 22.7          |                  | ug/L |   | 113  | 71 - 121        |
| Bromodichloromethane | 20.0           | 22.6          |                  | ug/L |   | 113  | 69 - 126        |
| Bromoform            | 20.0           | 21.4          |                  | ug/L |   | 107  | 57 - 129        |
| Bromomethane         | 20.0           | 19.6          |                  | ug/L |   | 98   | 36 - 142        |
| 2-Butanone           | 40.0           | 41.3          |                  | ug/L |   | 103  | 54 - 156        |
| Carbon disulfide     | 20.0           | 23.8          |                  | ug/L |   | 119  | 43 - 140        |

# QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 240-520596/5**  
**Matrix: Water**  
**Analysis Batch: 520596**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                     | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|-----------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Carbon tetrachloride        | 20.0           | 22.1          |                  | ug/L |   | 111  | 55 - 137        |
| Chlorobenzene               | 20.0           | 22.0          |                  | ug/L |   | 110  | 80 - 121        |
| Chloroethane                | 20.0           | 20.3          |                  | ug/L |   | 101  | 38 - 152        |
| 2-Chloroethyl vinyl ether   | 20.0           | 22.9          |                  | ug/L |   | 114  | 40 - 157        |
| Chloroform                  | 20.0           | 22.3          |                  | ug/L |   | 112  | 74 - 122        |
| Chloromethane               | 20.0           | 20.5          |                  | ug/L |   | 103  | 47 - 143        |
| 2-Chlorotoluene             | 20.0           | 22.6          |                  | ug/L |   | 113  | 79 - 124        |
| 4-Chlorotoluene             | 20.0           | 22.8          |                  | ug/L |   | 114  | 80 - 125        |
| cis-1,2-Dichloroethene      | 20.0           | 22.5          |                  | ug/L |   | 112  | 77 - 123        |
| cis-1,3-Dichloropropene     | 20.0           | 22.3          |                  | ug/L |   | 111  | 64 - 130        |
| Dibromochloromethane        | 20.0           | 21.6          |                  | ug/L |   | 108  | 70 - 124        |
| 1,2-Dibromo-3-Chloropropane | 20.0           | 20.5          |                  | ug/L |   | 103  | 53 - 135        |
| 1,2-Dibromoethane           | 20.0           | 22.0          |                  | ug/L |   | 110  | 71 - 134        |
| Dibromomethane              | 20.0           | 22.7          |                  | ug/L |   | 114  | 67 - 131        |
| 1,2-Dichlorobenzene         | 20.0           | 22.6          |                  | ug/L |   | 113  | 78 - 120        |
| 1,3-Dichlorobenzene         | 20.0           | 22.4          |                  | ug/L |   | 112  | 80 - 120        |
| 1,4-Dichlorobenzene         | 20.0           | 22.6          |                  | ug/L |   | 113  | 80 - 120        |
| Dichlorodifluoromethane     | 20.0           | 22.4          |                  | ug/L |   | 112  | 34 - 153        |
| 1,1-Dichloroethane          | 20.0           | 22.1          |                  | ug/L |   | 111  | 72 - 127        |
| 1,2-Dichloroethane          | 20.0           | 22.4          |                  | ug/L |   | 112  | 66 - 128        |
| 1,1-Dichloroethene          | 20.0           | 23.7          |                  | ug/L |   | 118  | 63 - 134        |
| 1,2-Dichloropropane         | 20.0           | 22.7          |                  | ug/L |   | 113  | 75 - 133        |
| 1,3-Dichloropropane         | 20.0           | 22.3          |                  | ug/L |   | 111  | 68 - 139        |
| 2,2-Dichloropropane         | 20.0           | 22.5          |                  | ug/L |   | 112  | 48 - 142        |
| 1,1-Dichloropropene         | 20.0           | 22.4          |                  | ug/L |   | 112  | 71 - 124        |
| Ethylbenzene                | 20.0           | 22.6          |                  | ug/L |   | 113  | 80 - 121        |
| Hexachlorobutadiene         | 20.0           | 22.1          |                  | ug/L |   | 111  | 37 - 162        |
| 2-Hexanone                  | 40.0           | 43.0          |                  | ug/L |   | 107  | 43 - 167        |
| Isopropylbenzene            | 20.0           | 22.3          |                  | ug/L |   | 111  | 74 - 128        |
| Methylene Chloride          | 20.0           | 22.1          |                  | ug/L |   | 111  | 71 - 125        |
| 4-Methyl-2-pentanone        | 40.0           | 43.7          |                  | ug/L |   | 109  | 46 - 158        |
| Methyl tert-butyl ether     | 20.0           | 22.9          |                  | ug/L |   | 114  | 65 - 126        |
| m-Xylene & p-Xylene         | 20.0           | 22.0          |                  | ug/L |   | 110  | 80 - 120        |
| Naphthalene                 | 20.0           | 21.7          |                  | ug/L |   | 108  | 53 - 138        |
| n-Butylbenzene              | 20.0           | 22.4          |                  | ug/L |   | 112  | 62 - 139        |
| n-Propylbenzene             | 20.0           | 22.5          |                  | ug/L |   | 113  | 76 - 127        |
| o-Xylene                    | 20.0           | 22.4          |                  | ug/L |   | 112  | 80 - 123        |
| p-Isopropyltoluene          | 20.0           | 22.7          |                  | ug/L |   | 113  | 71 - 132        |
| sec-Butylbenzene            | 20.0           | 22.9          |                  | ug/L |   | 114  | 69 - 135        |
| Styrene                     | 20.0           | 22.5          |                  | ug/L |   | 112  | 80 - 135        |
| tert-Butyl alcohol          | 200            | 188           |                  | ug/L |   | 94   | 33 - 153        |
| tert-Butylbenzene           | 20.0           | 22.3          |                  | ug/L |   | 111  | 64 - 134        |
| 1,1,1,2-Tetrachloroethane   | 20.0           | 22.3          |                  | ug/L |   | 112  | 71 - 124        |
| 1,1,2,2-Tetrachloroethane   | 20.0           | 22.7          |                  | ug/L |   | 113  | 58 - 157        |
| Tetrachloroethene           | 20.0           | 22.9          |                  | ug/L |   | 115  | 76 - 123        |
| Toluene                     | 20.0           | 21.7          |                  | ug/L |   | 108  | 80 - 123        |
| trans-1,2-Dichloroethene    | 20.0           | 22.1          |                  | ug/L |   | 111  | 75 - 124        |
| trans-1,3-Dichloropropene   | 20.0           | 22.3          |                  | ug/L |   | 111  | 57 - 129        |
| 1,2,3-Trichlorobenzene      | 20.0           | 21.7          |                  | ug/L |   | 109  | 45 - 149        |

# QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 240-520596/5**  
**Matrix: Water**  
**Analysis Batch: 520596**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                               | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,2,4-Trichlorobenzene                | 20.0        | 22.1       |               | ug/L |   | 110  | 44 - 147     |
| 1,1,1-Trichloroethane                 | 20.0        | 22.3       |               | ug/L |   | 111  | 64 - 131     |
| Trichloroethene                       | 20.0        | 22.2       |               | ug/L |   | 111  | 70 - 122     |
| Trichlorofluoromethane                | 20.0        | 21.1       |               | ug/L |   | 106  | 30 - 170     |
| 1,2,3-Trichloropropane                | 20.0        | 21.5       |               | ug/L |   | 107  | 57 - 150     |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 20.0        | 24.1       |               | ug/L |   | 120  | 51 - 146     |
| 1,2,4-Trimethylbenzene                | 20.0        | 22.6       |               | ug/L |   | 113  | 77 - 129     |
| Vinyl acetate                         | 20.0        | 26.3       |               | ug/L |   | 131  | 44 - 145     |
| Vinyl chloride                        | 20.0        | 21.2       |               | ug/L |   | 106  | 60 - 144     |
| Xylenes, Total                        | 40.0        | 44.4       |               | ug/L |   | 111  | 80 - 121     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr)  | 98            |               | 56 - 136 |
| Dibromofluoromethane (Surr)  | 98            |               | 73 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 89            |               | 62 - 137 |
| Toluene-d8 (Surr)            | 94            |               | 78 - 122 |

**Lab Sample ID: MB 240-520730/9**  
**Matrix: Water**  
**Analysis Batch: 520730**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Acetone                     | 10        | U            | 10  | 5.4  | ug/L |   |          | 03/24/22 13:01 | 1       |
| Benzene                     | 1.0       | U            | 1.0 | 0.42 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Bromobenzene                | 1.0       | U            | 1.0 | 0.50 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Bromochloromethane          | 1.0       | U            | 1.0 | 0.54 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Bromodichloromethane        | 1.0       | U            | 1.0 | 0.17 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Bromoform                   | 1.0       | U            | 1.0 | 0.76 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 0.42 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 2-Butanone                  | 10        | U            | 10  | 1.2  | ug/L |   |          | 03/24/22 13:01 | 1       |
| Carbon disulfide            | 1.0       | U            | 1.0 | 0.59 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Carbon tetrachloride        | 1.0       | U            | 1.0 | 0.26 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Chlorobenzene               | 1.0       | U            | 1.0 | 0.38 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Chloroethane                | 1.0       | U            | 1.0 | 0.83 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 2-Chloroethyl vinyl ether   | 10        | U            | 10  | 1.5  | ug/L |   |          | 03/24/22 13:01 | 1       |
| Chloroform                  | 1.0       | U            | 1.0 | 0.47 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Chloromethane               | 1.0       | U            | 1.0 | 0.63 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 2-Chlorotoluene             | 1.0       | U            | 1.0 | 0.57 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 4-Chlorotoluene             | 1.0       | U            | 1.0 | 0.43 | ug/L |   |          | 03/24/22 13:01 | 1       |
| cis-1,2-Dichloroethene      | 1.0       | U            | 1.0 | 0.46 | ug/L |   |          | 03/24/22 13:01 | 1       |
| cis-1,3-Dichloropropene     | 1.0       | U            | 1.0 | 0.61 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Dibromochloromethane        | 1.0       | U            | 1.0 | 0.39 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,2-Dibromo-3-Chloropropane | 2.0       | U            | 2.0 | 0.91 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,2-Dibromoethane           | 1.0       | U            | 1.0 | 0.41 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Dibromomethane              | 1.0       | U            | 1.0 | 0.40 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,2-Dichlorobenzene         | 1.0       | U            | 1.0 | 0.48 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,3-Dichlorobenzene         | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,4-Dichlorobenzene         | 1.0       | U            | 1.0 | 0.41 | ug/L |   |          | 03/24/22 13:01 | 1       |



# QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 240-520730/9**  
**Matrix: Water**  
**Analysis Batch: 520730**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                               | MB MB  |           | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
|                                       | Result | Qualifier |     |      |      |   |          |                |         |
| Dichlorodifluoromethane               | 1.0    | U         | 1.0 | 0.35 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,1-Dichloroethane                    | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,2-Dichloroethane                    | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,1-Dichloroethene                    | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,3-Dichloropropane                   | 1.0    | U         | 1.0 | 0.21 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 2,2-Dichloropropane                   | 1.0    | U         | 1.0 | 0.78 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,1-Dichloropropene                   | 1.0    | U         | 1.0 | 0.36 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Diisopropyl ether                     | 10     | U         | 10  | 0.17 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Ethylbenzene                          | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Ethyl-t-butyl ether (ETBE)            | 5.0    | U         | 5.0 | 0.40 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Hexachlorobutadiene                   | 1.0    | U         | 1.0 | 0.83 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 2-Hexanone                            | 10     | U         | 10  | 1.1  | ug/L |   |          | 03/24/22 13:01 | 1       |
| Isopropylbenzene                      | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Methylene Chloride                    | 5.0    | U         | 5.0 | 2.6  | ug/L |   |          | 03/24/22 13:01 | 1       |
| 4-Methyl-2-pentanone                  | 10     | U         | 10  | 0.99 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Methyl tert-butyl ether               | 1.0    | U         | 1.0 | 0.47 | ug/L |   |          | 03/24/22 13:01 | 1       |
| m-Xylene & p-Xylene                   | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Naphthalene                           | 1.0    | U         | 1.0 | 0.80 | ug/L |   |          | 03/24/22 13:01 | 1       |
| n-Butylbenzene                        | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 13:01 | 1       |
| n-Propylbenzene                       | 1.0    | U         | 1.0 | 0.57 | ug/L |   |          | 03/24/22 13:01 | 1       |
| o-Xylene                              | 1.0    | U         | 1.0 | 0.42 | ug/L |   |          | 03/24/22 13:01 | 1       |
| p-Isopropyltoluene                    | 1.0    | U         | 1.0 | 0.56 | ug/L |   |          | 03/24/22 13:01 | 1       |
| sec-Butylbenzene                      | 1.0    | U         | 1.0 | 0.53 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Styrene                               | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Tert-amyl-methyl ether (TAME)         | 5.0    | U         | 5.0 | 0.43 | ug/L |   |          | 03/24/22 13:01 | 1       |
| tert-Butyl alcohol                    | 40     | U         | 40  | 7.2  | ug/L |   |          | 03/24/22 13:01 | 1       |
| tert-Butylbenzene                     | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,1,1,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.43 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U         | 1.0 | 0.60 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Tetrachloroethene                     | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Toluene                               | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 13:01 | 1       |
| trans-1,2-Dichloroethene              | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 03/24/22 13:01 | 1       |
| trans-1,3-Dichloropropene             | 1.0    | U         | 1.0 | 0.67 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,2,3-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.54 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,2,4-Trichlorobenzene                | 1.0    | U         | 1.0 | 0.77 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,1,1-Trichloroethane                 | 1.0    | U         | 1.0 | 0.48 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Trichloroethene                       | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Trichlorofluoromethane                | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,2,3-Trichloropropane                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U         | 1.0 | 0.41 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,2,3-Trimethylbenzene                | 5.0    | U         | 5.0 | 0.31 | ug/L |   |          | 03/24/22 13:01 | 1       |
| 1,2,4-Trimethylbenzene                | 1.0    | U         | 1.0 | 0.52 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Vinyl acetate                         | 2.0    | U         | 2.0 | 0.61 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Vinyl chloride                        | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 03/24/22 13:01 | 1       |
| Xylenes, Total                        | 2.0    | U         | 2.0 | 0.42 | ug/L |   |          | 03/24/22 13:01 | 1       |

# QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 240-520730/9**  
**Matrix: Water**  
**Analysis Batch: 520730**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| <i>Tentatively Identified Compound</i> | <i>Est. Result</i> | <i>Qualifier</i> | <i>Unit</i> | <i>D</i> | <i>RT</i> | <i>CAS No.</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|--|--------------------|------------------|-------------|----------|-----------|----------------|-----------------|-----------------|----------------|
| <i>Tetrahydrofuran</i>                 | 0.524              | J                | ug/L        |          | 4.71      | 109-99-9       |                 | 03/24/22 13:01  | 1              |
| <i>Tentatively Identified Compound</i> | None               |                  | ug/L        |          |           |                |                 | 03/24/22 13:01  | 1              |

| <i>Surrogate</i>                    | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-------------------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| <i>4-Bromofluorobenzene (Surr)</i>  | 98               |                  | 56 - 136      |                 | 03/24/22 13:01  | 1              |
| <i>Dibromofluoromethane (Surr)</i>  | 98               |                  | 73 - 120      |                 | 03/24/22 13:01  | 1              |
| <i>1,2-Dichloroethane-d4 (Surr)</i> | 93               |                  | 62 - 137      |                 | 03/24/22 13:01  | 1              |
| <i>Toluene-d8 (Surr)</i>            | 94               |                  | 78 - 122      |                 | 03/24/22 13:01  | 1              |

**Lab Sample ID: LCS 240-520730/5**  
**Matrix: Water**  
**Analysis Batch: 520730**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| <i>Analyte</i>              | <i>Spike Added</i> | <i>LCS Result</i> | <i>LCS Qualifier</i> | <i>Unit</i> | <i>D</i> | <i>%Rec</i> | <i>%Rec. Limits</i> |
|-----------------------------|--------------------|-------------------|----------------------|-------------|----------|-------------|---------------------|
| Acetone                     | 40.0               | 33.7              |                      | ug/L        |          | 84          | 50 - 149            |
| Benzene                     | 20.0               | 19.0              |                      | ug/L        |          | 95          | 77 - 123            |
| Bromobenzene                | 20.0               | 18.8              |                      | ug/L        |          | 94          | 80 - 122            |
| Bromochloromethane          | 20.0               | 19.2              |                      | ug/L        |          | 96          | 71 - 121            |
| Bromodichloromethane        | 20.0               | 18.7              |                      | ug/L        |          | 93          | 69 - 126            |
| Bromoform                   | 20.0               | 17.1              |                      | ug/L        |          | 86          | 57 - 129            |
| Bromomethane                | 20.0               | 17.1              |                      | ug/L        |          | 86          | 36 - 142            |
| 2-Butanone                  | 40.0               | 35.2              |                      | ug/L        |          | 88          | 54 - 156            |
| Carbon disulfide            | 20.0               | 20.2              |                      | ug/L        |          | 101         | 43 - 140            |
| Carbon tetrachloride        | 20.0               | 18.4              |                      | ug/L        |          | 92          | 55 - 137            |
| Chlorobenzene               | 20.0               | 18.5              |                      | ug/L        |          | 92          | 80 - 121            |
| Chloroethane                | 20.0               | 18.3              |                      | ug/L        |          | 91          | 38 - 152            |
| 2-Chloroethyl vinyl ether   | 20.0               | 19.0              |                      | ug/L        |          | 95          | 40 - 157            |
| Chloroform                  | 20.0               | 18.8              |                      | ug/L        |          | 94          | 74 - 122            |
| Chloromethane               | 20.0               | 18.0              |                      | ug/L        |          | 90          | 47 - 143            |
| 2-Chlorotoluene             | 20.0               | 19.1              |                      | ug/L        |          | 96          | 79 - 124            |
| 4-Chlorotoluene             | 20.0               | 19.2              |                      | ug/L        |          | 96          | 80 - 125            |
| cis-1,2-Dichloroethene      | 20.0               | 19.3              |                      | ug/L        |          | 96          | 77 - 123            |
| cis-1,3-Dichloropropene     | 20.0               | 18.5              |                      | ug/L        |          | 93          | 64 - 130            |
| Dibromochloromethane        | 20.0               | 17.5              |                      | ug/L        |          | 87          | 70 - 124            |
| 1,2-Dibromo-3-Chloropropane | 20.0               | 16.8              |                      | ug/L        |          | 84          | 53 - 135            |
| 1,2-Dibromoethane           | 20.0               | 18.2              |                      | ug/L        |          | 91          | 71 - 134            |
| Dibromomethane              | 20.0               | 19.0              |                      | ug/L        |          | 95          | 67 - 131            |
| 1,2-Dichlorobenzene         | 20.0               | 19.0              |                      | ug/L        |          | 95          | 78 - 120            |
| 1,3-Dichlorobenzene         | 20.0               | 19.0              |                      | ug/L        |          | 95          | 80 - 120            |
| 1,4-Dichlorobenzene         | 20.0               | 18.9              |                      | ug/L        |          | 95          | 80 - 120            |
| Dichlorodifluoromethane     | 20.0               | 19.2              |                      | ug/L        |          | 96          | 34 - 153            |
| 1,1-Dichloroethane          | 20.0               | 18.6              |                      | ug/L        |          | 93          | 72 - 127            |
| 1,2-Dichloroethane          | 20.0               | 18.8              |                      | ug/L        |          | 94          | 66 - 128            |
| 1,1-Dichloroethene          | 20.0               | 20.1              |                      | ug/L        |          | 100         | 63 - 134            |
| 1,2-Dichloropropane         | 20.0               | 18.9              |                      | ug/L        |          | 95          | 75 - 133            |
| 1,3-Dichloropropane         | 20.0               | 18.4              |                      | ug/L        |          | 92          | 68 - 139            |
| 2,2-Dichloropropane         | 20.0               | 19.0              |                      | ug/L        |          | 95          | 48 - 142            |
| 1,1-Dichloropropene         | 20.0               | 19.0              |                      | ug/L        |          | 95          | 71 - 124            |

# QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 240-520730/5**  
**Matrix: Water**  
**Analysis Batch: 520730**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                               | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Ethylbenzene                          | 20.0        | 18.8       |               | ug/L |   | 94   | 80 - 121     |
| Hexachlorobutadiene                   | 20.0        | 18.8       |               | ug/L |   | 94   | 37 - 162     |
| 2-Hexanone                            | 40.0        | 36.4       |               | ug/L |   | 91   | 43 - 167     |
| Isopropylbenzene                      | 20.0        | 18.5       |               | ug/L |   | 93   | 74 - 128     |
| Methylene Chloride                    | 20.0        | 18.6       |               | ug/L |   | 93   | 71 - 125     |
| 4-Methyl-2-pentanone                  | 40.0        | 37.2       |               | ug/L |   | 93   | 46 - 158     |
| Methyl tert-butyl ether               | 20.0        | 19.0       |               | ug/L |   | 95   | 65 - 126     |
| m-Xylene & p-Xylene                   | 20.0        | 18.3       |               | ug/L |   | 92   | 80 - 120     |
| Naphthalene                           | 20.0        | 18.3       |               | ug/L |   | 91   | 53 - 138     |
| n-Butylbenzene                        | 20.0        | 19.1       |               | ug/L |   | 95   | 62 - 139     |
| n-Propylbenzene                       | 20.0        | 18.7       |               | ug/L |   | 94   | 76 - 127     |
| o-Xylene                              | 20.0        | 18.6       |               | ug/L |   | 93   | 80 - 123     |
| p-Isopropyltoluene                    | 20.0        | 19.2       |               | ug/L |   | 96   | 71 - 132     |
| sec-Butylbenzene                      | 20.0        | 19.4       |               | ug/L |   | 97   | 69 - 135     |
| Styrene                               | 20.0        | 18.6       |               | ug/L |   | 93   | 80 - 135     |
| tert-Butyl alcohol                    | 200         | 173        |               | ug/L |   | 86   | 33 - 153     |
| tert-Butylbenzene                     | 20.0        | 19.0       |               | ug/L |   | 95   | 64 - 134     |
| 1,1,1,2-Tetrachloroethane             | 20.0        | 18.4       |               | ug/L |   | 92   | 71 - 124     |
| 1,1,2,2-Tetrachloroethane             | 20.0        | 19.1       |               | ug/L |   | 96   | 58 - 157     |
| Tetrachloroethene                     | 20.0        | 18.9       |               | ug/L |   | 94   | 76 - 123     |
| Toluene                               | 20.0        | 18.2       |               | ug/L |   | 91   | 80 - 123     |
| trans-1,2-Dichloroethene              | 20.0        | 19.2       |               | ug/L |   | 96   | 75 - 124     |
| trans-1,3-Dichloropropene             | 20.0        | 18.3       |               | ug/L |   | 92   | 57 - 129     |
| 1,2,3-Trichlorobenzene                | 20.0        | 18.2       |               | ug/L |   | 91   | 45 - 149     |
| 1,2,4-Trichlorobenzene                | 20.0        | 18.3       |               | ug/L |   | 91   | 44 - 147     |
| 1,1,1-Trichloroethane                 | 20.0        | 18.8       |               | ug/L |   | 94   | 64 - 131     |
| Trichloroethene                       | 20.0        | 18.7       |               | ug/L |   | 94   | 70 - 122     |
| Trichlorofluoromethane                | 20.0        | 18.6       |               | ug/L |   | 93   | 30 - 170     |
| 1,2,3-Trichloropropane                | 20.0        | 18.2       |               | ug/L |   | 91   | 57 - 150     |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 20.0        | 20.6       |               | ug/L |   | 103  | 51 - 146     |
| 1,2,4-Trimethylbenzene                | 20.0        | 19.1       |               | ug/L |   | 95   | 77 - 129     |
| Vinyl acetate                         | 20.0        | 21.3       |               | ug/L |   | 106  | 44 - 145     |
| Vinyl chloride                        | 20.0        | 18.4       |               | ug/L |   | 92   | 60 - 144     |
| Xylenes, Total                        | 40.0        | 36.9       |               | ug/L |   | 92   | 80 - 121     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr)  | 99            |               | 56 - 136 |
| Dibromofluoromethane (Surr)  | 99            |               | 73 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 90            |               | 62 - 137 |
| Toluene-d8 (Surr)            | 95            |               | 78 - 122 |

**Lab Sample ID: LCSD 240-520730/6**  
**Matrix: Water**  
**Analysis Batch: 520730**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Acetone | 40.0        | 35.6        |                | ug/L |   | 89   | 50 - 149     | 5   | 35        |
| Benzene | 20.0        | 20.1        |                | ug/L |   | 101  | 77 - 123     | 6   | 35        |

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# QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 240-520730/6**  
**Matrix: Water**  
**Analysis Batch: 520730**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Bromobenzene                | 20.0        | 19.8        |                | ug/L |   | 99   | 80 - 122     | 5   | 35        |
| Bromochloromethane          | 20.0        | 20.8        |                | ug/L |   | 104  | 71 - 121     | 8   | 35        |
| Bromodichloromethane        | 20.0        | 19.9        |                | ug/L |   | 100  | 69 - 126     | 6   | 35        |
| Bromoform                   | 20.0        | 17.9        |                | ug/L |   | 90   | 57 - 129     | 5   | 35        |
| Bromomethane                | 20.0        | 18.7        |                | ug/L |   | 94   | 36 - 142     | 9   | 35        |
| 2-Butanone                  | 40.0        | 37.1        |                | ug/L |   | 93   | 54 - 156     | 5   | 35        |
| Carbon disulfide            | 20.0        | 21.1        |                | ug/L |   | 105  | 43 - 140     | 4   | 35        |
| Carbon tetrachloride        | 20.0        | 19.0        |                | ug/L |   | 95   | 55 - 137     | 3   | 35        |
| Chlorobenzene               | 20.0        | 19.4        |                | ug/L |   | 97   | 80 - 121     | 5   | 35        |
| Chloroethane                | 20.0        | 19.4        |                | ug/L |   | 97   | 38 - 152     | 6   | 35        |
| 2-Chloroethyl vinyl ether   | 20.0        | 20.1        |                | ug/L |   | 100  | 40 - 157     | 6   | 35        |
| Chloroform                  | 20.0        | 19.7        |                | ug/L |   | 98   | 74 - 122     | 5   | 35        |
| Chloromethane               | 20.0        | 19.3        |                | ug/L |   | 97   | 47 - 143     | 7   | 35        |
| 2-Chlorotoluene             | 20.0        | 20.1        |                | ug/L |   | 101  | 79 - 124     | 5   | 35        |
| 4-Chlorotoluene             | 20.0        | 19.9        |                | ug/L |   | 100  | 80 - 125     | 4   | 35        |
| cis-1,2-Dichloroethene      | 20.0        | 20.1        |                | ug/L |   | 100  | 77 - 123     | 4   | 35        |
| cis-1,3-Dichloropropene     | 20.0        | 19.6        |                | ug/L |   | 98   | 64 - 130     | 6   | 35        |
| Dibromochloromethane        | 20.0        | 18.5        |                | ug/L |   | 92   | 70 - 124     | 6   | 35        |
| 1,2-Dibromo-3-Chloropropane | 20.0        | 17.7        |                | ug/L |   | 89   | 53 - 135     | 5   | 35        |
| 1,2-Dibromoethane           | 20.0        | 19.0        |                | ug/L |   | 95   | 71 - 134     | 4   | 35        |
| Dibromomethane              | 20.0        | 19.7        |                | ug/L |   | 98   | 67 - 131     | 4   | 35        |
| 1,2-Dichlorobenzene         | 20.0        | 20.2        |                | ug/L |   | 101  | 78 - 120     | 6   | 35        |
| 1,3-Dichlorobenzene         | 20.0        | 19.9        |                | ug/L |   | 99   | 80 - 120     | 5   | 35        |
| 1,4-Dichlorobenzene         | 20.0        | 19.9        |                | ug/L |   | 100  | 80 - 120     | 5   | 35        |
| Dichlorodifluoromethane     | 20.0        | 19.8        |                | ug/L |   | 99   | 34 - 153     | 3   | 35        |
| 1,1-Dichloroethane          | 20.0        | 19.9        |                | ug/L |   | 100  | 72 - 127     | 7   | 35        |
| 1,2-Dichloroethane          | 20.0        | 20.0        |                | ug/L |   | 100  | 66 - 128     | 6   | 35        |
| 1,1-Dichloroethene          | 20.0        | 20.8        |                | ug/L |   | 104  | 63 - 134     | 3   | 35        |
| 1,2-Dichloropropane         | 20.0        | 20.1        |                | ug/L |   | 101  | 75 - 133     | 6   | 35        |
| 1,3-Dichloropropane         | 20.0        | 19.4        |                | ug/L |   | 97   | 68 - 139     | 5   | 35        |
| 2,2-Dichloropropane         | 20.0        | 19.9        |                | ug/L |   | 100  | 48 - 142     | 4   | 35        |
| 1,1-Dichloropropene         | 20.0        | 19.9        |                | ug/L |   | 99   | 71 - 124     | 4   | 35        |
| Ethylbenzene                | 20.0        | 19.7        |                | ug/L |   | 98   | 80 - 121     | 5   | 35        |
| Hexachlorobutadiene         | 20.0        | 19.5        |                | ug/L |   | 97   | 37 - 162     | 3   | 35        |
| 2-Hexanone                  | 40.0        | 38.4        |                | ug/L |   | 96   | 43 - 167     | 5   | 35        |
| Isopropylbenzene            | 20.0        | 19.5        |                | ug/L |   | 97   | 74 - 128     | 5   | 35        |
| Methylene Chloride          | 20.0        | 19.7        |                | ug/L |   | 98   | 71 - 125     | 6   | 35        |
| 4-Methyl-2-pentanone        | 40.0        | 38.8        |                | ug/L |   | 97   | 46 - 158     | 4   | 35        |
| Methyl tert-butyl ether     | 20.0        | 20.3        |                | ug/L |   | 101  | 65 - 126     | 7   | 35        |
| m-Xylene & p-Xylene         | 20.0        | 19.3        |                | ug/L |   | 96   | 80 - 120     | 5   | 35        |
| Naphthalene                 | 20.0        | 19.5        |                | ug/L |   | 97   | 53 - 138     | 6   | 35        |
| n-Butylbenzene              | 20.0        | 19.9        |                | ug/L |   | 99   | 62 - 139     | 4   | 35        |
| n-Propylbenzene             | 20.0        | 20.1        |                | ug/L |   | 100  | 76 - 127     | 7   | 35        |
| o-Xylene                    | 20.0        | 19.6        |                | ug/L |   | 98   | 80 - 123     | 5   | 35        |
| p-Isopropyltoluene          | 20.0        | 20.0        |                | ug/L |   | 100  | 71 - 132     | 4   | 35        |
| sec-Butylbenzene            | 20.0        | 20.2        |                | ug/L |   | 101  | 69 - 135     | 4   | 35        |
| Styrene                     | 20.0        | 19.5        |                | ug/L |   | 98   | 80 - 135     | 5   | 35        |
| tert-Butyl alcohol          | 200         | 185         |                | ug/L |   | 93   | 33 - 153     | 7   | 35        |
| tert-Butylbenzene           | 20.0        | 19.9        |                | ug/L |   | 99   | 64 - 134     | 4   | 35        |

# QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 240-520730/6**

**Matrix: Water**

**Analysis Batch: 520730**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

| Analyte                               | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|---------------------------------------|----------------|----------------|-------------------|------|---|------|-----------------|-----|--------------|
| 1,1,1,2-Tetrachloroethane             | 20.0           | 19.1           |                   | ug/L |   | 96   | 71 - 124        | 4   | 35           |
| 1,1,2,2-Tetrachloroethane             | 20.0           | 19.9           |                   | ug/L |   | 100  | 58 - 157        | 4   | 35           |
| Tetrachloroethene                     | 20.0           | 19.8           |                   | ug/L |   | 99   | 76 - 123        | 5   | 35           |
| Toluene                               | 20.0           | 18.8           |                   | ug/L |   | 94   | 80 - 123        | 4   | 35           |
| trans-1,2-Dichloroethene              | 20.0           | 20.1           |                   | ug/L |   | 100  | 75 - 124        | 5   | 35           |
| trans-1,3-Dichloropropene             | 20.0           | 19.2           |                   | ug/L |   | 96   | 57 - 129        | 5   | 35           |
| 1,2,3-Trichlorobenzene                | 20.0           | 19.4           |                   | ug/L |   | 97   | 45 - 149        | 6   | 35           |
| 1,2,4-Trichlorobenzene                | 20.0           | 19.5           |                   | ug/L |   | 97   | 44 - 147        | 6   | 35           |
| 1,1,1-Trichloroethane                 | 20.0           | 19.7           |                   | ug/L |   | 98   | 64 - 131        | 5   | 35           |
| Trichloroethene                       | 20.0           | 19.8           |                   | ug/L |   | 99   | 70 - 122        | 5   | 35           |
| Trichlorofluoromethane                | 20.0           | 19.4           |                   | ug/L |   | 97   | 30 - 170        | 4   | 35           |
| 1,2,3-Trichloropropane                | 20.0           | 19.1           |                   | ug/L |   | 95   | 57 - 150        | 5   | 35           |
| 1,1,2-Trichloro-1,2,2-trichloroethane | 20.0           | 20.9           |                   | ug/L |   | 105  | 51 - 146        | 2   | 35           |
| 1,2,4-Trimethylbenzene                | 20.0           | 20.2           |                   | ug/L |   | 101  | 77 - 129        | 6   | 35           |
| Vinyl acetate                         | 20.0           | 22.1           |                   | ug/L |   | 111  | 44 - 145        | 4   | 35           |
| Vinyl chloride                        | 20.0           | 19.6           |                   | ug/L |   | 98   | 60 - 144        | 7   | 35           |
| Xylenes, Total                        | 40.0           | 38.9           |                   | ug/L |   | 97   | 80 - 121        | 5   | 35           |

| Surrogate                    | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |
|------------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr)  | 98                |                   | 56 - 136 |
| Dibromofluoromethane (Surr)  | 97                |                   | 73 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 90                |                   | 62 - 137 |
| Toluene-d8 (Surr)            | 94                |                   | 78 - 122 |

# QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## GC/MS VOA

### Analysis Batch: 520596

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-163634-6     | MSA-SW37C-031122   | Total/NA  | Water  | 8260C  |            |
| 240-163634-7     | MSA-SW37D-031122   | Total/NA  | Water  | 8260C  |            |
| 240-163634-8     | MSA-SW38A-031122   | Total/NA  | Water  | 8260C  |            |
| 240-163634-9     | MSA-SW38B-031122   | Total/NA  | Water  | 8260C  |            |
| 240-163634-10    | MSA-SW38C-031122   | Total/NA  | Water  | 8260C  |            |
| 240-163634-11    | MSA-SW38D-031122   | Total/NA  | Water  | 8260C  |            |
| 240-163634-12    | MSA-SW40A-031122   | Total/NA  | Water  | 8260C  |            |
| 240-163634-13    | MSA-SW40B-031122   | Total/NA  | Water  | 8260C  |            |
| 240-163634-14    | MSA-SW40C-031122   | Total/NA  | Water  | 8260C  |            |
| 240-163634-15    | MSA-SW40D-031122   | Total/NA  | Water  | 8260C  |            |
| 240-163634-16    | MSA-SW41A-031122   | Total/NA  | Water  | 8260C  |            |
| MB 240-520596/8  | Method Blank       | Total/NA  | Water  | 8260C  |            |
| LCS 240-520596/5 | Lab Control Sample | Total/NA  | Water  | 8260C  |            |

### Analysis Batch: 520730

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 240-163634-4      | MSA-SW37A-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-5      | MSA-SW37B-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-17     | MSA-SW41B-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-18     | MSA-SW41C-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-19     | MSA-SW41D-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-20     | MSA-SW42A-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-21     | MSA-SW42B-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-22     | MSA-SW42C-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-23     | MSA-SW42D-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-24     | MSA-SW43A-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-25     | MSA-SW43B-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-26     | MSA-SW43C-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-27     | MSA-SW43D-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-28     | TB-031122              | Total/NA  | Water  | 8260C  |            |
| 240-163634-29     | MSA-SW46A-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-30     | MSA-SW47A-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-31     | MSA-SW48A-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-32     | MSA-SW49A-031122       | Total/NA  | Water  | 8260C  |            |
| 240-163634-33     | MSA-SWEQB-031122       | Total/NA  | Water  | 8260C  |            |
| MB 240-520730/9   | Method Blank           | Total/NA  | Water  | 8260C  |            |
| LCS 240-520730/5  | Lab Control Sample     | Total/NA  | Water  | 8260C  |            |
| LCSD 240-520730/6 | Lab Control Sample Dup | Total/NA  | Water  | 8260C  |            |

# Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW37A-031122**

**Lab Sample ID: 240-163634-4**

Date Collected: 03/11/22 10:21

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 13:50       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW37B-031122**

**Lab Sample ID: 240-163634-5**

Date Collected: 03/11/22 10:24

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 14:15       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW37C-031122**

**Lab Sample ID: 240-163634-6**

Date Collected: 03/11/22 10:28

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520596       | 03/23/22 16:22       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW37D-031122**

**Lab Sample ID: 240-163634-7**

Date Collected: 03/11/22 10:34

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520596       | 03/23/22 16:46       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW38A-031122**

**Lab Sample ID: 240-163634-8**

Date Collected: 03/11/22 09:15

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520596       | 03/23/22 17:11       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW38B-031122**

**Lab Sample ID: 240-163634-9**

Date Collected: 03/11/22 09:22

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520596       | 03/23/22 17:35       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW38C-031122**

**Lab Sample ID: 240-163634-10**

Date Collected: 03/11/22 09:25

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520596       | 03/23/22 17:59       | HMB     | TAL CAN |

# Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW38D-031122**

**Lab Sample ID: 240-163634-11**

Date Collected: 03/11/22 09:27

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520596       | 03/23/22 18:24       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW40A-031122**

**Lab Sample ID: 240-163634-12**

Date Collected: 03/11/22 09:39

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520596       | 03/23/22 18:48       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW40B-031122**

**Lab Sample ID: 240-163634-13**

Date Collected: 03/11/22 09:43

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520596       | 03/23/22 19:13       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW40C-031122**

**Lab Sample ID: 240-163634-14**

Date Collected: 03/11/22 09:47

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520596       | 03/23/22 19:37       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW40D-031122**

**Lab Sample ID: 240-163634-15**

Date Collected: 03/11/22 09:51

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520596       | 03/23/22 20:02       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW41A-031122**

**Lab Sample ID: 240-163634-16**

Date Collected: 03/11/22 08:46

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520596       | 03/23/22 20:26       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW41B-031122**

**Lab Sample ID: 240-163634-17**

Date Collected: 03/11/22 08:48

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 14:39       | HMB     | TAL CAN |



# Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW41C-031122**

**Lab Sample ID: 240-163634-18**

Date Collected: 03/11/22 08:54

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 15:04       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW41D-031122**

**Lab Sample ID: 240-163634-19**

Date Collected: 03/11/22 08:59

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 15:28       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW42A-031122**

**Lab Sample ID: 240-163634-20**

Date Collected: 03/11/22 10:01

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 15:53       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW42B-031122**

**Lab Sample ID: 240-163634-21**

Date Collected: 03/11/22 10:06

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 16:17       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW42C-031122**

**Lab Sample ID: 240-163634-22**

Date Collected: 03/11/22 10:09

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 16:42       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW42D-031122**

**Lab Sample ID: 240-163634-23**

Date Collected: 03/11/22 10:14

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 17:06       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW43A-031122**

**Lab Sample ID: 240-163634-24**

Date Collected: 03/11/22 08:18

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 17:31       | HMB     | TAL CAN |

# Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW43B-031122**

**Lab Sample ID: 240-163634-25**

Date Collected: 03/11/22 08:24

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 17:55       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW43C-031122**

**Lab Sample ID: 240-163634-26**

Date Collected: 03/11/22 08:27

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 18:20       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW43D-031122**

**Lab Sample ID: 240-163634-27**

Date Collected: 03/11/22 08:32

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 18:44       | HMB     | TAL CAN |

**Client Sample ID: TB-031122**

**Lab Sample ID: 240-163634-28**

Date Collected: 03/11/22 00:00

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 19:09       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW46A-031122**

**Lab Sample ID: 240-163634-29**

Date Collected: 03/11/22 09:57

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 19:33       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW47A-031122**

**Lab Sample ID: 240-163634-30**

Date Collected: 03/11/22 09:33

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 19:58       | HMB     | TAL CAN |

**Client Sample ID: MSA-SW48A-031122**

**Lab Sample ID: 240-163634-31**

Date Collected: 03/11/22 09:05

Matrix: Water

Date Received: 03/12/22 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 20:22       | HMB     | TAL CAN |

# Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

**Client Sample ID: MSA-SW49A-031122**

**Lab Sample ID: 240-163634-32**

**Date Collected: 03/11/22 08:38**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 20:47       | HMB     | TAL CAN |

**Client Sample ID: MSA-SWEQB-031122**

**Lab Sample ID: 240-163634-33**

**Date Collected: 03/11/22 11:30**

**Matrix: Water**

**Date Received: 03/12/22 10:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 520730       | 03/24/22 21:11       | HMB     | TAL CAN |

**Laboratory References:**

TAL CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

# Accreditation/Certification Summary

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

## Laboratory: Eurofins Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority             | Program | Identification Number | Expiration Date |
|-----------------------|---------|-----------------------|-----------------|
| California            | State   | 2927                  | 02-23-22 *      |
| Connecticut           | State   | PH-0590               | 12-31-21 *      |
| Florida               | NELAP   | E87225                | 06-30-22        |
| Georgia               | State   | 4062                  | 02-23-22 *      |
| Illinois              | NELAP   | 200004                | 07-31-22        |
| Iowa                  | State   | 421                   | 06-01-23        |
| Kansas                | NELAP   | E-10336               | 04-30-22        |
| Kentucky (UST)        | State   | 112225                | 02-23-22 *      |
| Kentucky (WW)         | State   | KY98016               | 12-31-22        |
| Minnesota             | NELAP   | 039-999-348           | 12-31-22        |
| Minnesota (Petrofund) | State   | 3506                  | 08-01-23        |
| New Jersey            | NELAP   | OH001                 | 11-06-22        |
| New York              | NELAP   | 10975                 | 03-31-22        |
| Ohio                  | State   | 8303                  | 02-23-23        |
| Ohio VAP              | State   | CL0024                | 02-27-23        |
| Oregon                | NELAP   | 4062                  | 02-27-23        |
| Pennsylvania          | NELAP   | 68-00340              | 08-31-22        |
| Texas                 | NELAP   | T104704517-21-14      | 08-31-22        |
| Virginia              | NELAP   | 11570                 | 09-14-22        |
| Washington            | State   | C971                  | 01-12-23        |
| West Virginia DEP     | State   | 210                   | 12-31-22        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

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| <b>Method</b> | <b>Method Description</b>           | <b>Protocol</b> | <b>Laboratory</b> |
|---------------|-------------------------------------|-----------------|-------------------|
| 8260C         | Volatile Organic Compounds by GC/MS | SW846           | TAL CAN           |
| 5030C         | Purge and Trap                      | SW846           | TAL CAN           |

**Protocol References:**

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

**Laboratory References:**

TAL CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

# Sample Summary

Client: Tetra Tech, Inc.  
Project/Site: MSA Surface Water

Job ID: 240-163634-1  
SDG: MSA Frog Mortar Creek

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-163634-4  | MSA-SW37A-031122 | Water  | 03/11/22 10:21 | 03/12/22 10:00 |
| 240-163634-5  | MSA-SW37B-031122 | Water  | 03/11/22 10:24 | 03/12/22 10:00 |
| 240-163634-6  | MSA-SW37C-031122 | Water  | 03/11/22 10:28 | 03/12/22 10:00 |
| 240-163634-7  | MSA-SW37D-031122 | Water  | 03/11/22 10:34 | 03/12/22 10:00 |
| 240-163634-8  | MSA-SW38A-031122 | Water  | 03/11/22 09:15 | 03/12/22 10:00 |
| 240-163634-9  | MSA-SW38B-031122 | Water  | 03/11/22 09:22 | 03/12/22 10:00 |
| 240-163634-10 | MSA-SW38C-031122 | Water  | 03/11/22 09:25 | 03/12/22 10:00 |
| 240-163634-11 | MSA-SW38D-031122 | Water  | 03/11/22 09:27 | 03/12/22 10:00 |
| 240-163634-12 | MSA-SW40A-031122 | Water  | 03/11/22 09:39 | 03/12/22 10:00 |
| 240-163634-13 | MSA-SW40B-031122 | Water  | 03/11/22 09:43 | 03/12/22 10:00 |
| 240-163634-14 | MSA-SW40C-031122 | Water  | 03/11/22 09:47 | 03/12/22 10:00 |
| 240-163634-15 | MSA-SW40D-031122 | Water  | 03/11/22 09:51 | 03/12/22 10:00 |
| 240-163634-16 | MSA-SW41A-031122 | Water  | 03/11/22 08:46 | 03/12/22 10:00 |
| 240-163634-17 | MSA-SW41B-031122 | Water  | 03/11/22 08:48 | 03/12/22 10:00 |
| 240-163634-18 | MSA-SW41C-031122 | Water  | 03/11/22 08:54 | 03/12/22 10:00 |
| 240-163634-19 | MSA-SW41D-031122 | Water  | 03/11/22 08:59 | 03/12/22 10:00 |
| 240-163634-20 | MSA-SW42A-031122 | Water  | 03/11/22 10:01 | 03/12/22 10:00 |
| 240-163634-21 | MSA-SW42B-031122 | Water  | 03/11/22 10:06 | 03/12/22 10:00 |
| 240-163634-22 | MSA-SW42C-031122 | Water  | 03/11/22 10:09 | 03/12/22 10:00 |
| 240-163634-23 | MSA-SW42D-031122 | Water  | 03/11/22 10:14 | 03/12/22 10:00 |
| 240-163634-24 | MSA-SW43A-031122 | Water  | 03/11/22 08:18 | 03/12/22 10:00 |
| 240-163634-25 | MSA-SW43B-031122 | Water  | 03/11/22 08:24 | 03/12/22 10:00 |
| 240-163634-26 | MSA-SW43C-031122 | Water  | 03/11/22 08:27 | 03/12/22 10:00 |
| 240-163634-27 | MSA-SW43D-031122 | Water  | 03/11/22 08:32 | 03/12/22 10:00 |
| 240-163634-28 | TB-031122        | Water  | 03/11/22 00:00 | 03/12/22 10:00 |
| 240-163634-29 | MSA-SW46A-031122 | Water  | 03/11/22 09:57 | 03/12/22 10:00 |
| 240-163634-30 | MSA-SW47A-031122 | Water  | 03/11/22 09:33 | 03/12/22 10:00 |
| 240-163634-31 | MSA-SW48A-031122 | Water  | 03/11/22 09:05 | 03/12/22 10:00 |
| 240-163634-32 | MSA-SW49A-031122 | Water  | 03/11/22 08:38 | 03/12/22 10:00 |
| 240-163634-33 | MSA-SWEQB-031122 | Water  | 03/11/22 11:30 | 03/12/22 10:00 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520426Lab Sample ID: STD8260 240-520426/8 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 03/21/22 16:23 Lab File ID: UX000684.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME      | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|--------------------|----------------|---------------------|-----------|----------------|
|                    |                | REASON              | ANALYST   | DATE           |
| Acetone            | 2.97           | Invalid Compound ID | bosworthh | 03/22/22 09:15 |
| Methylene Chloride |                | Invalid Compound ID | bosworthh | 03/22/22 09:17 |

Lab Sample ID: STDA9 240-520426/18 IC Client Sample ID: \_\_\_\_\_Date Analyzed: 03/21/22 20:28 Lab File ID: UX000694.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME     | RETENTION TIME | MANUAL INTEGRATION        |           |                |
|-------------------|----------------|---------------------------|-----------|----------------|
|                   |                | REASON                    | ANALYST   | DATE           |
| Pentachloroethane | 10.30          | Peak assignment corrected | bosworthh | 03/22/22 09:53 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520596Lab Sample ID: MB 240-520596/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/23/22 11:52 Lab File ID: UX000753.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/23/22 12:11 |

Lab Sample ID: 240-163634-6 Client Sample ID: MSA-SW37C-031122Date Analyzed: 03/23/22 16:22 Lab File ID: UX000764.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:03 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:03 |

Lab Sample ID: 240-163634-7 Client Sample ID: MSA-SW37D-031122Date Analyzed: 03/23/22 16:46 Lab File ID: UX000765.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:05 |

Lab Sample ID: 240-163634-8 Client Sample ID: MSA-SW38A-031122Date Analyzed: 03/23/22 17:11 Lab File ID: UX000766.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:06 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:06 |
| tert-Butyl alcohol   |                | Invalid Compound ID | bosworthh | 03/24/22 08:06 |



## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520596Lab Sample ID: 240-163634-9 Client Sample ID: MSA-SW38B-031122Date Analyzed: 03/23/22 17:35 Lab File ID: UX000767.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:07 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:07 |
| tert-Butyl alcohol   |                | Invalid Compound ID | bosworthh | 03/24/22 08:06 |

Lab Sample ID: 240-163634-10 Client Sample ID: MSA-SW38C-031122Date Analyzed: 03/23/22 17:59 Lab File ID: UX000768.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:07 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:07 |

Lab Sample ID: 240-163634-11 Client Sample ID: MSA-SW38D-031122Date Analyzed: 03/23/22 18:24 Lab File ID: UX000769.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:09 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:08 |
| tert-Butyl alcohol   |                | Invalid Compound ID | bosworthh | 03/24/22 08:08 |

Lab Sample ID: 240-163634-12 Client Sample ID: MSA-SW40A-031122Date Analyzed: 03/23/22 18:48 Lab File ID: UX000770.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:13 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:13 |
| n-Propylbenzene      |                | Invalid Compound ID | bosworthh | 03/24/22 08:13 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520596Lab Sample ID: 240-163634-13 Client Sample ID: MSA-SW40B-031122Date Analyzed: 03/23/22 19:13 Lab File ID: UX000771.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:14 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:14 |

Lab Sample ID: 240-163634-14 Client Sample ID: MSA-SW40C-031122Date Analyzed: 03/23/22 19:37 Lab File ID: UX000772.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:15 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:15 |
| tert-Butyl alcohol   |                | Invalid Compound ID | bosworthh | 03/24/22 08:15 |

Lab Sample ID: 240-163634-15 Client Sample ID: MSA-SW40D-031122Date Analyzed: 03/23/22 20:02 Lab File ID: UX000773.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:15 |

Lab Sample ID: 240-163634-16 Client Sample ID: MSA-SW41A-031122Date Analyzed: 03/23/22 20:26 Lab File ID: UX000774.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 08:16 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 08:16 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520730Lab Sample ID: MB 240-520730/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/24/22 13:01 Lab File ID: UX000785.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 13:47 |

Lab Sample ID: 240-163634-4 Client Sample ID: MSA-SW37A-031122Date Analyzed: 03/24/22 13:50 Lab File ID: UX000787.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 14:26 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 14:26 |

Lab Sample ID: 240-163634-5 Client Sample ID: MSA-SW37B-031122Date Analyzed: 03/24/22 14:15 Lab File ID: UX000788.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 14:59 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 14:59 |
| tert-Butyl alcohol   |                | Invalid Compound ID | bosworthh | 03/24/22 14:59 |

Lab Sample ID: 240-163634-17 Client Sample ID: MSA-SW41B-031122Date Analyzed: 03/24/22 14:39 Lab File ID: UX000789.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/24/22 15:00 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/24/22 14:59 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520730Lab Sample ID: 240-163634-18 Client Sample ID: MSA-SW41C-031122Date Analyzed: 03/24/22 15:04 Lab File ID: UX000790.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 07:57 |

Lab Sample ID: 240-163634-19 Client Sample ID: MSA-SW41D-031122Date Analyzed: 03/24/22 15:28 Lab File ID: UX000791.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 07:57 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 07:57 |

Lab Sample ID: 240-163634-20 Client Sample ID: MSA-SW42A-031122Date Analyzed: 03/24/22 15:53 Lab File ID: UX000792.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 07:58 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 07:58 |

Lab Sample ID: 240-163634-21 Client Sample ID: MSA-SW42B-031122Date Analyzed: 03/24/22 16:17 Lab File ID: UX000793.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 07:58 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 07:58 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520730Lab Sample ID: 240-163634-22 Client Sample ID: MSA-SW42C-031122Date Analyzed: 03/24/22 16:42 Lab File ID: UX000794.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:00 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:00 |

Lab Sample ID: 240-163634-23 Client Sample ID: MSA-SW42D-031122Date Analyzed: 03/24/22 17:06 Lab File ID: UX000795.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:00 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:00 |

Lab Sample ID: 240-163634-24 Client Sample ID: MSA-SW43A-031122Date Analyzed: 03/24/22 17:31 Lab File ID: UX000796.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:03 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:03 |

Lab Sample ID: 240-163634-25 Client Sample ID: MSA-SW43B-031122Date Analyzed: 03/24/22 17:55 Lab File ID: UX000797.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:05 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:05 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520730Lab Sample ID: 240-163634-26 Client Sample ID: MSA-SW43C-031122Date Analyzed: 03/24/22 18:20 Lab File ID: UX000798.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:09 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:08 |

Lab Sample ID: 240-163634-27 Client Sample ID: MSA-SW43D-031122Date Analyzed: 03/24/22 18:44 Lab File ID: UX000799.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:09 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:09 |

Lab Sample ID: 240-163634-28 Client Sample ID: TB-031122Date Analyzed: 03/24/22 19:09 Lab File ID: UX000800.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:10 |

Lab Sample ID: 240-163634-29 Client Sample ID: MSA-SW46A-031122Date Analyzed: 03/24/22 19:33 Lab File ID: UX000801.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:10 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:10 |
| tert-Butyl alcohol   |                | Invalid Compound ID | bosworthh | 03/25/22 08:10 |

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1SDG No.: MSA Frog Mortar CreekInstrument ID: A3UX9 Analysis Batch Number: 520730Lab Sample ID: 240-163634-30 Client Sample ID: MSA-SW47A-031122Date Analyzed: 03/24/22 19:58 Lab File ID: UX000802.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:11 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:11 |

Lab Sample ID: 240-163634-31 Client Sample ID: MSA-SW48A-031122Date Analyzed: 03/24/22 20:22 Lab File ID: UX000803.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:11 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:11 |

Lab Sample ID: 240-163634-32 Client Sample ID: MSA-SW49A-031122Date Analyzed: 03/24/22 20:47 Lab File ID: UX000804.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 2-Hexanone           |                | Invalid Compound ID | bosworthh | 03/25/22 08:12 |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:12 |

Lab Sample ID: 240-163634-33 Client Sample ID: MSA-SWEQB-031122Date Analyzed: 03/24/22 21:11 Lab File ID: UX000805.D GC Column: DB-624 ID: 0.18 (mm)

| COMPOUND NAME        | RETENTION TIME | MANUAL INTEGRATION  |           |                |
|----------------------|----------------|---------------------|-----------|----------------|
|                      |                | REASON              | ANALYST   | DATE           |
| 4-Methyl-2-pentanone |                | Invalid Compound ID | bosworthh | 03/25/22 08:13 |
| Chloromethane        |                | Invalid Compound ID | bosworthh | 03/25/22 08:12 |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID         | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                      | Concentration |
|--------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|------------------------------|---------------|
|                    |          |           |                      |                      | Reagent ID          | Volume Added |                              |               |
| vm50is_stk_A_00010 | 05/26/22 | 11/26/21  | MEOH, Lot 273166     | 50 mL                | vm30241_00008       | 1 mL         | 1,4-Dichlorobenzene-d4       | 50 ug/mL      |
|                    |          |           |                      |                      |                     |              | Chlorobenzene-d5             | 50 ug/mL      |
|                    |          |           |                      |                      |                     |              | Fluorobenzene                | 50 ug/mL      |
| .vm30241_00008     | 10/31/24 |           | restek, Lot A0154377 |                      | (Purchased Reagent) |              | 1,4-Dichlorobenzene-d4       | 2500 ug/mL    |
|                    |          |           |                      |                      |                     |              | Chlorobenzene-d5             | 2500 ug/mL    |
|                    |          |           |                      |                      |                     |              | Fluorobenzene                | 2500 ug/mL    |
| vm50ss_00468       | 03/23/22 | 03/16/22  | MEOH, Lot na         | 5 mL                 | vm50ss_stk_00090    | 5 mL         | 1,2-Dichloroethane-d4 (Surr) | 50 ug/mL      |
|                    |          |           |                      |                      |                     |              | 4-Bromofluorobenzene (Surr)  | 50 ug/mL      |
|                    |          |           |                      |                      |                     |              | Dibromofluoromethane (Surr)  | 50 ug/mL      |
|                    |          |           |                      |                      |                     |              | Toluene-d8 (Surr)            | 50 ug/mL      |
| .vm50ss_stk_00090  | 06/20/22 | 12/20/21  | MEOH, Lot 0000273166 | 200 mL               | VM567650_00035      | 4 mL         | 1,2-Dichloroethane-d4 (Surr) | 50 ug/mL      |
|                    |          |           |                      |                      |                     |              | 4-Bromofluorobenzene (Surr)  | 50 ug/mL      |
|                    |          |           |                      |                      |                     |              | Dibromofluoromethane (Surr)  | 50 ug/mL      |
|                    |          |           |                      |                      |                     |              | Toluene-d8 (Surr)            | 50 ug/mL      |
| ..VM567650_00035   | 11/30/23 |           | Restek, Lot A0143613 |                      | (Purchased Reagent) |              | 1,2-Dichloroethane-d4 (Surr) | 2500 ug/mL    |
|                    |          |           |                      |                      |                     |              | 4-Bromofluorobenzene (Surr)  | 2500 ug/mL    |
|                    |          |           |                      |                      |                     |              | Dibromofluoromethane (Surr)  | 2500 ug/mL    |
|                    |          |           |                      |                      |                     |              | Toluene-d8 (Surr)            | 2500 ug/mL    |
| vm50ss_stk_00090   | 06/20/22 | 12/20/21  | MEOH, Lot 0000273166 | 200 mL               | VM567650_00035      | 4 mL         | 1,2-Dichloroethane-d4 (Surr) | 50 ug/mL      |
|                    |          |           |                      |                      |                     |              | 4-Bromofluorobenzene (Surr)  | 50 ug/mL      |
|                    |          |           |                      |                      |                     |              | Dibromofluoromethane (Surr)  | 50 ug/mL      |
|                    |          |           |                      |                      |                     |              | Toluene-d8 (Surr)            | 50 ug/mL      |
| .VM567650_00035    | 11/30/23 |           | Restek, Lot A0143613 |                      | (Purchased Reagent) |              | 1,2-Dichloroethane-d4 (Surr) | 2500 ug/mL    |
|                    |          |           |                      |                      |                     |              | 4-Bromofluorobenzene (Surr)  | 2500 ug/mL    |
|                    |          |           |                      |                      |                     |              | Dibromofluoromethane (Surr)  | 2500 ug/mL    |
|                    |          |           |                      |                      |                     |              | Toluene-d8 (Surr)            | 2500 ug/mL    |
| vmarolistdw_00429  | 03/23/22 | 03/16/22  | MEOH, Lot na         | 5 mL                 | VMACROLSTD_00104    | 5 mL         | Acrolein                     | 250 ug/mL     |
| .VMACROLSTD_00104  | 03/25/22 | 02/25/22  | MEOH, Lot 0000273166 | 20 mL                | VM568720_00042      | 0.25 mL      | Acrolein                     | 250 ug/mL     |
| ..VM568720_00042   | 02/28/23 |           | restek, Lot A0175809 |                      | (Purchased Reagent) |              | Acrolein                     | 20000 ug/mL   |
| VMAROLISTDW_00430  | 03/25/22 | 03/24/22  | MEOH, Lot na         | 5 mL                 | VMACROLSTD_00104    | 5 mL         | Acrolein                     | 250 ug/mL     |
| .VMACROLSTD_00104  | 03/25/22 | 02/25/22  | MEOH, Lot 0000273166 | 20 mL                | VM568720_00042      | 0.25 mL      | Acrolein                     | 250 ug/mL     |
| ..VM568720_00042   | 02/28/23 |           | restek, Lot A0175809 |                      | (Purchased Reagent) |              | Acrolein                     | 20000 ug/mL   |
| vmbfb_00029        |          |           |                      |                      |                     |              | 1,2-Dichloroethene, Total    |               |
|                    |          |           |                      |                      |                     |              | 1,3-Dichloropropene, Total   |               |
|                    |          |           |                      |                      |                     |              | 1-Hexanol, 2-ethyl-          |               |
|                    |          |           |                      |                      |                     |              | Total BTEX                   |               |
|                    |          |           |                      |                      |                     |              | Trihalomethanes, Total       |               |
|                    |          |           |                      |                      |                     |              | Xylenes, Total               |               |
| .vm30026_00003     | 08/31/23 |           | restek, Lot A0141187 |                      | vm30026_00003       | 1.25 mL      | BFB                          | 50 ug/mL      |
|                    |          |           |                      |                      | (Purchased Reagent) |              | BFB                          | 2000 ug/mL    |
| VMFASA9W_00352     | 03/24/22 | 03/17/22  | MEOH, Lot NA         | 5 mL                 | VMFASA9_00029       | 5 mL         | Cyclohexanone                | 500 ug/mL     |
|                    |          |           |                      |                      |                     |              | Pentachloroethane            | 100 ug/mL     |
|                    |          |           |                      |                      |                     |              | 2-Methylnaphthalene          | 100 ug/mL     |
|                    |          |           |                      |                      |                     |              | 1,2,3-Trimethylbenzene       | 50 ug/mL      |
|                    |          |           |                      |                      |                     |              | 2-Nitropropane               | 100 ug/mL     |



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID           | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent  |                     | Analyte                       | Concentration |
|----------------------|----------|-----------|----------------------|----------------------|-----------------|---------------------|-------------------------------|---------------|
|                      |          |           |                      |                      | Reagent ID      | Volume Added        |                               |               |
|                      |          |           |                      |                      |                 |                     | Methacrylonitrile             | 500 ug/mL     |
|                      |          |           |                      |                      |                 |                     | n-Butanol                     | 1250 ug/mL    |
|                      |          |           |                      |                      |                 |                     | Ethyl acetate                 | 100 ug/mL     |
|                      |          |           |                      |                      |                 |                     | Methyl methacrylate           | 100 ug/mL     |
|                      |          |           |                      |                      |                 |                     | Acetonitrile                  | 500 ug/mL     |
|                      |          |           |                      |                      |                 |                     | Diisopropyl ether             | 50 ug/mL      |
|                      |          |           |                      |                      |                 |                     | Ethyl-t-butyl ether (ETBE)    | 50 ug/mL      |
|                      |          |           |                      |                      |                 |                     | Propionitrile                 | 500 ug/mL     |
|                      |          |           |                      |                      |                 |                     | Tert-amyl-methyl ether (TAME) | 50 ug/mL      |
| .VMFASA9_00029       | 08/01/22 | 02/01/22  | MEOH, Lot 0000273166 | 100 mL               | VM569727S_00005 | 2 mL                | Cyclohexanone                 | 500 ug/mL     |
|                      |          |           |                      |                      | vm570806S_00006 | 4 mL                | Pentachloroethane             | 100 ug/mL     |
|                      |          |           |                      |                      | vm570807S_00006 | 4 mL                | 2-Methylnaphthalene           | 100 ug/mL     |
|                      |          |           |                      |                      | VM570808S_00011 | 2 mL                | 1,2,3-Trimethylbenzene        | 50 ug/mL      |
|                      |          |           |                      |                      |                 |                     | 2-Nitropropane                | 100 ug/mL     |
|                      |          |           |                      |                      |                 |                     | Methacrylonitrile             | 500 ug/mL     |
|                      |          |           |                      |                      |                 |                     | n-Butanol                     | 1250 ug/mL    |
|                      |          |           |                      |                      | VM570809S_00010 | 2 mL                | Ethyl acetate                 | 100 ug/mL     |
|                      |          |           |                      |                      |                 |                     | Methyl methacrylate           | 100 ug/mL     |
|                      |          |           |                      |                      | VM571993S_00008 | 2 mL                | Acetonitrile                  | 500 ug/mL     |
|                      |          |           |                      |                      |                 |                     | Diisopropyl ether             | 50 ug/mL      |
|                      |          |           |                      |                      |                 |                     | Ethyl-t-butyl ether (ETBE)    | 50 ug/mL      |
|                      |          |           |                      |                      |                 |                     | Propionitrile                 | 500 ug/mL     |
|                      |          |           |                      |                      |                 |                     | Tert-amyl-methyl ether (TAME) | 50 ug/mL      |
| ..VM569727S_00005    | 09/30/22 |           | RESTEK, Lot A0152945 |                      |                 | (Purchased Reagent) | Cyclohexanone                 | 25000 ug/mL   |
| ..vm570806S_00006    | 02/29/24 |           | Restek, Lot A0146080 |                      |                 | (Purchased Reagent) | Pentachloroethane             | 2500 ug/mL    |
| ..vm570807S_00006    | 12/31/23 |           | Restek, Lot A0144306 |                      |                 | (Purchased Reagent) | 2-Methylnaphthalene           | 2500 ug/mL    |
| ..VM570808S_00011    | 10/31/22 |           | Restek, Lot A0171439 |                      |                 | (Purchased Reagent) | 1,2,3-Trimethylbenzene        | 2500 ug/mL    |
|                      |          |           |                      |                      |                 |                     | 2-Nitropropane                | 5000 ug/mL    |
|                      |          |           |                      |                      |                 |                     | Methacrylonitrile             | 25000 ug/mL   |
|                      |          |           |                      |                      |                 |                     | n-Butanol                     | 62500 ug/mL   |
| ..VM570809S_00010    | 10/31/22 |           | Restek, Lot A0171207 |                      |                 | (Purchased Reagent) | Ethyl acetate                 | 5000 ug/mL    |
|                      |          |           |                      |                      |                 |                     | Methyl methacrylate           | 5000 ug/mL    |
| ..VM571993S_00008    | 10/31/22 |           | restek, Lot A0165034 |                      |                 | (Purchased Reagent) | Acetonitrile                  | 25000 ug/mL   |
|                      |          |           |                      |                      |                 |                     | Diisopropyl ether             | 2500 ug/mL    |
|                      |          |           |                      |                      |                 |                     | Ethyl-t-butyl ether (ETBE)    | 2500 ug/mL    |
|                      |          |           |                      |                      |                 |                     | Propionitrile                 | 25000 ug/mL   |
|                      |          |           |                      |                      |                 |                     | Tert-amyl-methyl ether (TAME) | 2500 ug/mL    |
| <b>VMFASAW_00410</b> | 03/23/22 | 03/16/22  | MEOH, Lot NA         | 5 mL                 | VMFASA_00074    | 5 mL                | Acrolein                      | 250 ug/mL     |
| .VMFASA_00074        | 05/24/22 | 11/24/21  | MEOH, Lot 0000273166 | 100 mL               | VM568720S_00039 | 1.25 mL             | Acrolein                      | 250 ug/mL     |
| ..VM568720S_00039    | 08/31/22 |           | restek, Lot A0169469 |                      |                 | (Purchased Reagent) | Acrolein                      | 20000 ug/mL   |
| <b>VMFASGW_00446</b> | 03/22/22 | 03/15/22  | MEOH, Lot NA         | 5 mL                 | VMFASG_00116    | 5 mL                | Bromomethane                  | 50 ug/mL      |
|                      |          |           |                      |                      |                 |                     | Chloroethane                  | 50 ug/mL      |
|                      |          |           |                      |                      |                 |                     | Chloromethane                 | 50 ug/mL      |
|                      |          |           |                      |                      |                 |                     | Dichlorodifluoromethane       | 50 ug/mL      |
|                      |          |           |                      |                      |                 |                     | Trichlorofluoromethane        | 50 ug/mL      |
|                      |          |           |                      |                      |                 |                     | Vinyl chloride                | 50 ug/mL      |
| .VMFASG_00116        | 03/25/22 | 02/25/22  | MEOH, Lot 0000273166 | 50 mL                | vm569722S_00010 | 1 mL                | Bromomethane                  | 50 ug/mL      |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID           | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                                 | Concentration |
|----------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|---|---------------|
|                      |          |           |                      |                      | Reagent ID          | Volume Added |   |               |
|                      |          |           |                      |                      |                     |              | Chloroethane                            | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Chloromethane                           | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Dichlorodifluoromethane                 | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Trichlorofluoromethane                  | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Vinyl chloride                          | 50 ug/mL      |
| ..vm569722S_00010    | 04/30/23 |           | Restek, Lot A0159768 |                      | (Purchased Reagent) |              | Bromomethane                            | 2500 ug/mL    |
|                      |          |           |                      |                      |                     |              | Chloroethane                            | 2500 ug/mL    |
|                      |          |           |                      |                      |                     |              | Chloromethane                           | 2500 ug/mL    |
|                      |          |           |                      |                      |                     |              | Dichlorodifluoromethane                 | 2500 ug/mL    |
|                      |          |           |                      |                      |                     |              | Trichlorofluoromethane                  | 2500 ug/mL    |
|                      |          |           |                      |                      |                     |              | Vinyl chloride                          | 2500 ug/mL    |
| <b>VMFASGW_00447</b> | 03/25/22 | 03/23/22  | MEOH, Lot NA         | 5 mL                 | VMFASG_00116        | 5 mL         | Bromomethane                            | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Chloroethane                            | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Chloromethane                           | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Dichlorodifluoromethane                 | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Trichlorofluoromethane                  | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Vinyl chloride                          | 50 ug/mL      |
| .VMFASG_00116        | 03/25/22 | 02/25/22  | MEOH, Lot 0000273166 | 50 mL                | vm569722S_00010     | 1 mL         | Bromomethane                            | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Chloroethane                            | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Chloromethane                           | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Dichlorodifluoromethane                 | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Trichlorofluoromethane                  | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Vinyl chloride                          | 50 ug/mL      |
| ..vm569722S_00010    | 04/30/23 |           | Restek, Lot A0159768 |                      | (Purchased Reagent) |              | Bromomethane                            | 2500 ug/mL    |
|                      |          |           |                      |                      |                     |              | Chloroethane                            | 2500 ug/mL    |
|                      |          |           |                      |                      |                     |              | Chloromethane                           | 2500 ug/mL    |
|                      |          |           |                      |                      |                     |              | Dichlorodifluoromethane                 | 2500 ug/mL    |
|                      |          |           |                      |                      |                     |              | Trichlorofluoromethane                  | 2500 ug/mL    |
|                      |          |           |                      |                      |                     |              | Vinyl chloride                          | 2500 ug/mL    |
| <b>VMFASPW_00436</b> | 03/22/22 | 03/15/22  | MEOH, Lot n/a        | 5 mL                 | VMRFASP_00080       | 5 mL         | 2-Butanone                              | 100 ug/mL     |
|                      |          |           |                      |                      |                     |              | 2-Hexanone                              | 100 ug/mL     |
|                      |          |           |                      |                      |                     |              | 4-Methyl-2-pentanone                    | 100 ug/mL     |
|                      |          |           |                      |                      |                     |              | Acetone                                 | 100 ug/mL     |
|                      |          |           |                      |                      |                     |              | 2-Chloroethyl vinyl ether               | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | Vinyl acetate                           | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | 1,1,1,2-Tetrachloroethane               | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | 1,1,1-Trichloroethane                   | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | 1,1,2,2-Tetrachloroethane               | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | 1,1-Dichloroethane                      | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | 1,1-Dichloroethene                      | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | 1,1-Dichloropropene                     | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | 1,2,3-Trichlorobenzene                  | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | 1,2,3-Trichloropropane                  | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | 1,2,4-Trichlorobenzene                  | 50 ug/mL      |
|                      |          |           |                      |                      |                     |              | 1,2,4-Trimethylbenzene                  | 50 ug/mL      |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                     | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-----------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                             |               |
|            |          |           |               |                      |                |              | 1,2-Dibromo-3-Chloropropane | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane           | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene         | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane          | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane         | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene         | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,3-Dichloropropane         | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene         | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,4-Dioxane                 | 1000 ug/mL    |
|            |          |           |               |                      |                |              | 2,2-Dichloropropane         | 50 ug/mL      |
|            |          |           |               |                      |                |              | 2-Chlorotoluene             | 50 ug/mL      |
|            |          |           |               |                      |                |              | 4-Chlorotoluene             | 50 ug/mL      |
|            |          |           |               |                      |                |              | Acrylonitrile               | 500 ug/mL     |
|            |          |           |               |                      |                |              | Benzene                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromobenzene                | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromochloromethane          | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromodichloromethane        | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromoform                   | 50 ug/mL      |
|            |          |           |               |                      |                |              | Carbon disulfide            | 50 ug/mL      |
|            |          |           |               |                      |                |              | Carbon tetrachloride        | 50 ug/mL      |
|            |          |           |               |                      |                |              | Chlorobenzene               | 50 ug/mL      |
|            |          |           |               |                      |                |              | Chloroform                  | 50 ug/mL      |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene      | 50 ug/mL      |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene     | 50 ug/mL      |
|            |          |           |               |                      |                |              | Dibromochloromethane        | 50 ug/mL      |
|            |          |           |               |                      |                |              | Dibromomethane              | 50 ug/mL      |
|            |          |           |               |                      |                |              | Ethylbenzene                | 50 ug/mL      |
|            |          |           |               |                      |                |              | Hexachlorobutadiene         | 50 ug/mL      |
|            |          |           |               |                      |                |              | Isobutyl alcohol            | 1250 ug/mL    |
|            |          |           |               |                      |                |              | Isopropylbenzene            | 50 ug/mL      |
|            |          |           |               |                      |                |              | m-Xylene & p-Xylene         | 50 ug/mL      |
|            |          |           |               |                      |                |              | Methyl acetate              | 100 ug/mL     |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether     | 50 ug/mL      |
|            |          |           |               |                      |                |              | Methylene Chloride          | 50 ug/mL      |
|            |          |           |               |                      |                |              | n-Butylbenzene              | 50 ug/mL      |
|            |          |           |               |                      |                |              | n-Propylbenzene             | 50 ug/mL      |
|            |          |           |               |                      |                |              | Naphthalene                 | 50 ug/mL      |
|            |          |           |               |                      |                |              | o-Xylene                    | 50 ug/mL      |
|            |          |           |               |                      |                |              | p-Isopropyltoluene          | 50 ug/mL      |
|            |          |           |               |                      |                |              | sec-Butylbenzene            | 50 ug/mL      |
|            |          |           |               |                      |                |              | Styrene                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | tert-Butyl alcohol          | 500 ug/mL     |
|            |          |           |               |                      |                |              | tert-Butylbenzene           | 50 ug/mL      |
|            |          |           |               |                      |                |              | Tetrachloroethene           | 50 ug/mL      |
|            |          |           |               |                      |                |              | Tetrahydrofuran             | 100 ug/mL     |
|            |          |           |               |                      |                |              | Toluene                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | Total BTEX                  | 250 ug/mL     |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene    | 50 ug/mL      |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID     | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent  |              | Analyte                                 | Concentration |
|----------------|----------|-----------|----------------------|----------------------|-----------------|--------------|---|---------------|
|                |          |           |                      |                      | Reagent ID      | Volume Added |   |               |
|                |          |           |                      |                      |                 |              | trans-1,3-Dichloropropene               | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Trichloroethene                         | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Trihalomethanes, Total                  | 200 ug/mL     |
|                |          |           |                      |                      |                 |              | Xylenes, Total                          | 100 ug/mL     |
| .VMRFASP_00080 | 06/01/22 | 12/01/21  | MEOH, Lot 0000273166 | 100 mL               | VM569721S_00007 | 0.8 mL       | 2-Butanone                              | 100 ug/mL     |
|                |          |           |                      |                      |                 |              | 2-Hexanone                              | 100 ug/mL     |
|                |          |           |                      |                      |                 |              | 4-Methyl-2-pentanone                    | 100 ug/mL     |
|                |          |           |                      |                      |                 |              | Acetone                                 | 100 ug/mL     |
|                |          |           |                      |                      | VM569723S_00009 | 2 mL         | 2-Chloroethyl vinyl ether               | 50 ug/mL      |
|                |          |           |                      |                      | VM569724S_00031 | 1 mL         | Vinyl acetate                           | 50 ug/mL      |
|                |          |           |                      |                      | VM571992S_00008 | 2 mL         | 1,1,1,2-Tetrachloroethane               | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,1,1-Trichloroethane                   | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,1,2,2-Tetrachloroethane               | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,1-Dichloroethane                      | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,1-Dichloroethene                      | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,1-Dichloropropene                     | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2,3-Trichlorobenzene                  | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2,3-Trichloropropane                  | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2,4-Trichlorobenzene                  | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2,4-Trimethylbenzene                  | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2-Dibromo-3-Chloropropane             | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2-Dibromoethane                       | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2-Dichlorobenzene                     | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2-Dichloroethane                      | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2-Dichloropropane                     | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,3-Dichlorobenzene                     | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,3-Dichloropropane                     | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,4-Dichlorobenzene                     | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,4-Dioxane                             | 1000 ug/mL    |
|                |          |           |                      |                      |                 |              | 2,2-Dichloropropane                     | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 2-Chlorotoluene                         | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 4-Chlorotoluene                         | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Acrylonitrile                           | 500 ug/mL     |
|                |          |           |                      |                      |                 |              | Benzene                                 | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Bromobenzene                            | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Bromochloromethane                      | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Bromodichloromethane                    | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Bromoform                               | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Carbon disulfide                        | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Carbon tetrachloride                    | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Chlorobenzene                           | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Chloroform                              | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | cis-1,2-Dichloroethene                  | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | cis-1,3-Dichloropropene                 | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Dibromochloromethane                    | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Dibromomethane                          | 50 ug/mL      |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID        | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent |                     | Analyte                                 | Concentration |
|-------------------|----------|-----------|----------------------|----------------------|----------------|---------------------|---|---------------|
|                   |          |           |                      |                      | Reagent ID     | Volume Added        |   |               |
|                   |          |           |                      |                      |                |                     | Ethylbenzene                            | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Hexachlorobutadiene                     | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Isobutyl alcohol                        | 1250 ug/mL    |
|                   |          |           |                      |                      |                |                     | Isopropylbenzene                        | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | m-Xylene & p-Xylene                     | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Methyl acetate                          | 100 ug/mL     |
|                   |          |           |                      |                      |                |                     | Methyl tert-butyl ether                 | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Methylene Chloride                      | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | n-Butylbenzene                          | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | n-Propylbenzene                         | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Naphthalene                             | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | o-Xylene                                | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | p-Isopropyltoluene                      | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | sec-Butylbenzene                        | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Styrene                                 | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | tert-Butyl alcohol                      | 500 ug/mL     |
|                   |          |           |                      |                      |                |                     | tert-Butylbenzene                       | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Tetrachloroethene                       | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Tetrahydrofuran                         | 100 ug/mL     |
|                   |          |           |                      |                      |                |                     | Toluene                                 | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Total BTEX                              | 250 ug/mL     |
|                   |          |           |                      |                      |                |                     | trans-1,2-Dichloroethene                | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | trans-1,3-Dichloropropene               | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Trichloroethene                         | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Trihalomethanes, Total                  | 200 ug/mL     |
|                   |          |           |                      |                      |                |                     | Xylenes, Total                          | 100 ug/mL     |
| ..VM569721S_00007 | 01/31/24 |           | Restek, Lot A0167967 |                      |                | (Purchased Reagent) | 2-Butanone                              | 12500 ug/mL   |
|                   |          |           |                      |                      |                |                     | 2-Hexanone                              | 12500 ug/mL   |
|                   |          |           |                      |                      |                |                     | 4-Methyl-2-pentanone                    | 12500 ug/mL   |
|                   |          |           |                      |                      |                |                     | Acetone                                 | 12500 ug/mL   |
| ..VM569723S_00009 | 09/30/22 |           | Restek, Lot A0153415 |                      |                | (Purchased Reagent) | 2-Chloroethyl vinyl ether               | 2500 ug/mL    |
| ..VM569724S_00031 | 09/30/22 |           | Restek, Lot A0169715 |                      |                | (Purchased Reagent) | Vinyl acetate                           | 5000 ug/mL    |
| ..VM571992S_00008 | 06/30/23 |           | Restek, Lot A0167172 |                      |                | (Purchased Reagent) | 1,1,1,2-Tetrachloroethane               | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,1,1-Trichloroethane                   | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,1,2,2-Tetrachloroethane               | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,1-Dichloroethane                      | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,1-Dichloroethene                      | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,1-Dichloropropene                     | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,2,3-Trichlorobenzene                  | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,2,3-Trichloropropane                  | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,2,4-Trichlorobenzene                  | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,2,4-Trimethylbenzene                  | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,2-Dibromo-3-Chloropropane             | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,2-Dibromoethane                       | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,2-Dichlorobenzene                     | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,2-Dichloroethane                      | 2500 ug/mL    |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                   | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                           |               |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane       | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene       | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,3-Dichloropropane       | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene       | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,4-Dioxane               | 50000 ug/mL   |
|            |          |           |               |                      |                |              | 2,2-Dichloropropane       | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 2-Chlorotoluene           | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 4-Chlorotoluene           | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Acrylonitrile             | 25000 ug/mL   |
|            |          |           |               |                      |                |              | Benzene                   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Bromobenzene              | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Bromochloromethane        | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Bromodichloromethane      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Bromoform                 | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Carbon disulfide          | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Carbon tetrachloride      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Chlorobenzene             | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Chloroform                | 2500 ug/mL    |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene    | 2500 ug/mL    |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Dibromochloromethane      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Dibromomethane            | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Ethylbenzene              | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Hexachlorobutadiene       | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Isobutyl alcohol          | 62500 ug/mL   |
|            |          |           |               |                      |                |              | Isopropylbenzene          | 2500 ug/mL    |
|            |          |           |               |                      |                |              | m-Xylene & p-Xylene       | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Methyl acetate            | 5000 ug/mL    |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Methylene Chloride        | 2500 ug/mL    |
|            |          |           |               |                      |                |              | n-Butylbenzene            | 2500 ug/mL    |
|            |          |           |               |                      |                |              | n-Propylbenzene           | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Naphthalene               | 2500 ug/mL    |
|            |          |           |               |                      |                |              | o-Xylene                  | 2500 ug/mL    |
|            |          |           |               |                      |                |              | p-Isopropyltoluene        | 2500 ug/mL    |
|            |          |           |               |                      |                |              | sec-Butylbenzene          | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Styrene                   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | tert-Butyl alcohol        | 25000 ug/mL   |
|            |          |           |               |                      |                |              | tert-Butylbenzene         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Tetrachloroethene         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Tetrahydrofuran           | 5000 ug/mL    |
|            |          |           |               |                      |                |              | Toluene                   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Total BTEX                | 12500 ug/mL   |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene  | 2500 ug/mL    |
|            |          |           |               |                      |                |              | trans-1,3-Dichloropropene | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Trichloroethene           | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Trihalomethanes, Total    | 10000 ug/mL   |
|            |          |           |               |                      |                |              | Xylenes, Total            | 5000 ug/mL    |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID              | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                 | Concentration |
|-------------------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|                         |          |           |               |                      | Reagent ID     | Volume Added |   |               |
| VMFASPW_00437           | 03/30/22 | 03/23/22  | MEOH, Lot n/a | 5 mL                 | VMRFASP_00080  | 5 mL         | 2-Butanone                              | 100 ug/mL     |
|                         |          |           |               |                      |                |              | 2-Hexanone                              | 100 ug/mL     |
|                         |          |           |               |                      |                |              | 4-Methyl-2-pentanone                    | 100 ug/mL     |
|                         |          |           |               |                      |                |              | Acetone                                 | 100 ug/mL     |
|                         |          |           |               |                      |                |              | 2-Chloroethyl vinyl ether               | 50 ug/mL      |
|                         |          |           |               |                      |                |              | Vinyl acetate                           | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,1,1,2-Tetrachloroethane               | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,1,1-Trichloroethane                   | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,1,2,2-Tetrachloroethane               | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,1-Dichloroethane                      | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,1-Dichloroethene                      | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,1-Dichloropropene                     | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,2,3-Trichlorobenzene                  | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,2,3-Trichloropropane                  | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,2,4-Trichlorobenzene                  | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,2,4-Trimethylbenzene                  | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,2-Dibromo-3-Chloropropane             | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,2-Dibromoethane                       | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,2-Dichlorobenzene                     | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,2-Dichloroethane                      | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,2-Dichloropropane                     | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,3-Dichlorobenzene                     | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,3-Dichloropropane                     | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 1,4-Dichlorobenzene                     | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 2,2-Dichloropropane                     | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 2-Chlorotoluene                         | 50 ug/mL      |
|                         |          |           |               |                      |                |              | 4-Chlorotoluene                         | 50 ug/mL      |
|                         |          |           |               |                      |                |              | Benzene                                 | 50 ug/mL      |
|                         |          |           |               |                      |                |              | Bromobenzene                            | 50 ug/mL      |
|                         |          |           |               |                      |                |              | Bromochloromethane                      | 50 ug/mL      |
|                         |          |           |               |                      |                |              | Bromodichloromethane                    | 50 ug/mL      |
|                         |          |           |               |                      |                |              | Bromoform                               | 50 ug/mL      |
|                         |          |           |               |                      |                |              | Carbon disulfide                        | 50 ug/mL      |
|                         |          |           |               |                      |                |              | Carbon tetrachloride                    | 50 ug/mL      |
|                         |          |           |               |                      |                |              | Chlorobenzene                           | 50 ug/mL      |
|                         |          |           |               |                      |                |              | Chloroform                              | 50 ug/mL      |
|                         |          |           |               |                      |                |              | cis-1,2-Dichloroethene                  | 50 ug/mL      |
|                         |          |           |               |                      |                |              | cis-1,3-Dichloropropene                 | 50 ug/mL      |
|                         |          |           |               |                      |                |              | Dibromochloromethane                    | 50 ug/mL      |
|                         |          |           |               |                      |                |              | Dibromomethane                          | 50 ug/mL      |
|                         |          |           |               |                      |                |              | Ethylbenzene                            | 50 ug/mL      |
| Hexachlorobutadiene     | 50 ug/mL |           |               |                      |                |              |   |               |
| Isopropylbenzene        | 50 ug/mL |           |               |                      |                |              |   |               |
| m-Xylene & p-Xylene     | 50 ug/mL |           |               |                      |                |              |   |               |
| Methyl tert-butyl ether | 50 ug/mL |           |               |                      |                |              |   |               |
| Methylene Chloride      | 50 ug/mL |           |               |                      |                |              |   |               |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID     | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent  |              | Analyte                                 | Concentration |
|----------------|----------|-----------|----------------------|----------------------|-----------------|--------------|---|---------------|
|                |          |           |                      |                      | Reagent ID      | Volume Added |   |               |
|                |          |           |                      |                      |                 |              | n-Butylbenzene                          | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | n-Propylbenzene                         | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Naphthalene                             | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | o-Xylene                                | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | p-Isopropyltoluene                      | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | sec-Butylbenzene                        | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Styrene                                 | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | tert-Butyl alcohol                      | 500 ug/mL     |
|                |          |           |                      |                      |                 |              | tert-Butylbenzene                       | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Tetrachloroethene                       | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Toluene                                 | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | trans-1,2-Dichloroethene                | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | trans-1,3-Dichloropropene               | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Trichloroethene                         | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Xylenes, Total                          | 100 ug/mL     |
| .VMRFASP_00080 | 06/01/22 | 12/01/21  | MEOH, Lot 0000273166 | 100 mL               | VM569721S_00007 | 0.8 mL       | 2-Butanone                              | 100 ug/mL     |
|                |          |           |                      |                      |                 |              | 2-Hexanone                              | 100 ug/mL     |
|                |          |           |                      |                      |                 |              | 4-Methyl-2-pentanone                    | 100 ug/mL     |
|                |          |           |                      |                      |                 |              | Acetone                                 | 100 ug/mL     |
|                |          |           |                      |                      | VM569723S_00009 | 2 mL         | 2-Chloroethyl vinyl ether               | 50 ug/mL      |
|                |          |           |                      |                      | VM569724S_00031 | 1 mL         | Vinyl acetate                           | 50 ug/mL      |
|                |          |           |                      |                      | VM571992S_00008 | 2 mL         | 1,1,1,2-Tetrachloroethane               | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,1,1-Trichloroethane                   | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,1,2,2-Tetrachloroethane               | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,1-Dichloroethane                      | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,1-Dichloroethene                      | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,1-Dichloropropene                     | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2,3-Trichlorobenzene                  | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2,3-Trichloropropane                  | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2,4-Trichlorobenzene                  | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2,4-Trimethylbenzene                  | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2-Dibromo-3-Chloropropane             | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2-Dibromoethane                       | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2-Dichlorobenzene                     | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2-Dichloroethane                      | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,2-Dichloropropane                     | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,3-Dichlorobenzene                     | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,3-Dichloropropane                     | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 1,4-Dichlorobenzene                     | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 2,2-Dichloropropane                     | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 2-Chlorotoluene                         | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | 4-Chlorotoluene                         | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Benzene                                 | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Bromobenzene                            | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Bromochloromethane                      | 50 ug/mL      |
|                |          |           |                      |                      |                 |              | Bromodichloromethane                    | 50 ug/mL      |



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID        | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent |                     | Analyte                                 | Concentration |
|-------------------|----------|-----------|----------------------|----------------------|----------------|---------------------|---|---------------|
|                   |          |           |                      |                      | Reagent ID     | Volume Added        |   |               |
|                   |          |           |                      |                      |                |                     | Bromoform                               | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Carbon disulfide                        | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Carbon tetrachloride                    | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Chlorobenzene                           | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Chloroform                              | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | cis-1,2-Dichloroethene                  | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | cis-1,3-Dichloropropene                 | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Dibromochloromethane                    | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Dibromomethane                          | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Ethylbenzene                            | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Hexachlorobutadiene                     | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Isopropylbenzene                        | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | m-Xylene & p-Xylene                     | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Methyl tert-butyl ether                 | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Methylene Chloride                      | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | n-Butylbenzene                          | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | n-Propylbenzene                         | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Naphthalene                             | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | o-Xylene                                | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | p-Isopropyltoluene                      | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | sec-Butylbenzene                        | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Styrene                                 | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | tert-Butyl alcohol                      | 500 ug/mL     |
|                   |          |           |                      |                      |                |                     | tert-Butylbenzene                       | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Tetrachloroethene                       | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Toluene                                 | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | trans-1,2-Dichloroethene                | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | trans-1,3-Dichloropropene               | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Trichloroethene                         | 50 ug/mL      |
|                   |          |           |                      |                      |                |                     | Xylenes, Total                          | 100 ug/mL     |
| ..VM569721S_00007 | 01/31/24 |           | Restek, Lot A0167967 |                      |                | (Purchased Reagent) | 2-Butanone                              | 12500 ug/mL   |
|                   |          |           |                      |                      |                |                     | 2-Hexanone                              | 12500 ug/mL   |
|                   |          |           |                      |                      |                |                     | 4-Methyl-2-pentanone                    | 12500 ug/mL   |
|                   |          |           |                      |                      |                |                     | Acetone                                 | 12500 ug/mL   |
| ..VM569723S_00009 | 09/30/22 |           | Restek, Lot A0153415 |                      |                | (Purchased Reagent) | 2-Chloroethyl vinyl ether               | 2500 ug/mL    |
| ..VM569724S_00031 | 09/30/22 |           | Restek, Lot A0169715 |                      |                | (Purchased Reagent) | Vinyl acetate                           | 5000 ug/mL    |
| ..VM571992S_00008 | 06/30/23 |           | Restek, Lot A0167172 |                      |                | (Purchased Reagent) | 1,1,1,2-Tetrachloroethane               | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,1,1-Trichloroethane                   | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,1,2,2-Tetrachloroethane               | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,1-Dichloroethane                      | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,1-Dichloroethene                      | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,1-Dichloropropene                     | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,2,3-Trichlorobenzene                  | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,2,3-Trichloropropane                  | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,2,4-Trichlorobenzene                  | 2500 ug/mL    |
|                   |          |           |                      |                      |                |                     | 1,2,4-Trimethylbenzene                  | 2500 ug/mL    |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID   | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                     | Concentration |
|--------------|----------|-----------|---------------|----------------------|----------------|--------------|-----------------------------|---------------|
|              |          |           |               |                      | Reagent ID     | Volume Added |                             |               |
|              |          |           |               |                      |                |              | 1,2-Dibromo-3-Chloropropane | 2500 ug/mL    |
|              |          |           |               |                      |                |              | 1,2-Dibromoethane           | 2500 ug/mL    |
|              |          |           |               |                      |                |              | 1,2-Dichlorobenzene         | 2500 ug/mL    |
|              |          |           |               |                      |                |              | 1,2-Dichloroethane          | 2500 ug/mL    |
|              |          |           |               |                      |                |              | 1,2-Dichloropropane         | 2500 ug/mL    |
|              |          |           |               |                      |                |              | 1,3-Dichlorobenzene         | 2500 ug/mL    |
|              |          |           |               |                      |                |              | 1,3-Dichloropropane         | 2500 ug/mL    |
|              |          |           |               |                      |                |              | 1,4-Dichlorobenzene         | 2500 ug/mL    |
|              |          |           |               |                      |                |              | 2,2-Dichloropropane         | 2500 ug/mL    |
|              |          |           |               |                      |                |              | 2-Chlorotoluene             | 2500 ug/mL    |
|              |          |           |               |                      |                |              | 4-Chlorotoluene             | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Benzene                     | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Bromobenzene                | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Bromochloromethane          | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Bromodichloromethane        | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Bromoform                   | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Carbon disulfide            | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Carbon tetrachloride        | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Chlorobenzene               | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Chloroform                  | 2500 ug/mL    |
|              |          |           |               |                      |                |              | cis-1,2-Dichloroethene      | 2500 ug/mL    |
|              |          |           |               |                      |                |              | cis-1,3-Dichloropropene     | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Dibromochloromethane        | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Dibromomethane              | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Ethylbenzene                | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Hexachlorobutadiene         | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Isopropylbenzene            | 2500 ug/mL    |
|              |          |           |               |                      |                |              | m-Xylene & p-Xylene         | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Methyl tert-butyl ether     | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Methylene Chloride          | 2500 ug/mL    |
|              |          |           |               |                      |                |              | n-Butylbenzene              | 2500 ug/mL    |
|              |          |           |               |                      |                |              | n-Propylbenzene             | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Naphthalene                 | 2500 ug/mL    |
|              |          |           |               |                      |                |              | o-Xylene                    | 2500 ug/mL    |
|              |          |           |               |                      |                |              | p-Isopropyltoluene          | 2500 ug/mL    |
|              |          |           |               |                      |                |              | sec-Butylbenzene            | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Styrene                     | 2500 ug/mL    |
|              |          |           |               |                      |                |              | tert-Butyl alcohol          | 2500 ug/mL    |
|              |          |           |               |                      |                |              | tert-Butylbenzene           | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Tetrachloroethene           | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Toluene                     | 2500 ug/mL    |
|              |          |           |               |                      |                |              | trans-1,2-Dichloroethene    | 2500 ug/mL    |
|              |          |           |               |                      |                |              | trans-1,3-Dichloropropene   | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Trichloroethene             | 2500 ug/mL    |
|              |          |           |               |                      |                |              | Xylenes, Total              | 5000 ug/mL    |
| vmra9w_00428 | 03/23/22 | 03/16/22  | MEOH, Lot NA  | 5 mL                 | VMRA9_00039    | 5 mL         | Cyclohexanone               | 500 ug/mL     |
|              |          |           |               |                      |                |              | Pentachloroethane           | 100 ug/mL     |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID       | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent |                     | Analyte                       | Concentration |
|------------------|----------|-----------|----------------------|----------------------|----------------|---------------------|-------------------------------|---------------|
|                  |          |           |                      |                      | Reagent ID     | Volume Added        |                               |               |
|                  |          |           |                      |                      |                |                     | 1-Methylnaphthalene           | 100 ug/mL     |
|                  |          |           |                      |                      |                |                     | 2-Methylnaphthalene           | 100 ug/mL     |
|                  |          |           |                      |                      |                |                     | 1,2,3-Trimethylbenzene        | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | 1,3,5-Trichlorobenzene        | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | 1-Chlorohexane                | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | 2-Chloro-1,3-butadiene        | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | 2-Nitropropane                | 100 ug/mL     |
|                  |          |           |                      |                      |                |                     | Benzyl chloride               | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Isooctane                     | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Methacrylonitrile             | 500 ug/mL     |
|                  |          |           |                      |                      |                |                     | n-Butanol                     | 1250 ug/mL    |
|                  |          |           |                      |                      |                |                     | Ethyl acetate                 | 100 ug/mL     |
|                  |          |           |                      |                      |                |                     | Ethyl acrylate                | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Methyl methacrylate           | 100 ug/mL     |
|                  |          |           |                      |                      |                |                     | n-Butyl acetate               | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Acetonitrile                  | 500 ug/mL     |
|                  |          |           |                      |                      |                |                     | Diisopropyl ether             | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Ethyl-t-butyl ether (ETBE)    | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Propionitrile                 | 500 ug/mL     |
|                  |          |           |                      |                      |                |                     | Tert-amyl-methyl ether (TAME) | 50 ug/mL      |
| .VMRA9_00039     | 03/31/22 | 02/01/22  | MEOH, Lot 0000273166 | 50 mL                | VM569727_00006 | 1 mL                | Cyclohexanone                 | 500 ug/mL     |
|                  |          |           |                      |                      | vm570806_00005 | 2 mL                | Pentachloroethane             | 100 ug/mL     |
|                  |          |           |                      |                      | vm570807_00005 | 2 mL                | 1-Methylnaphthalene           | 100 ug/mL     |
|                  |          |           |                      |                      |                |                     | 2-Methylnaphthalene           | 100 ug/mL     |
|                  |          |           |                      |                      | VM570808_00008 | 1 mL                | 1,2,3-Trimethylbenzene        | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | 1,3,5-Trichlorobenzene        | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | 1-Chlorohexane                | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | 2-Chloro-1,3-butadiene        | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | 2-Nitropropane                | 100 ug/mL     |
|                  |          |           |                      |                      |                |                     | Benzyl chloride               | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Isooctane                     | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Methacrylonitrile             | 500 ug/mL     |
|                  |          |           |                      |                      |                |                     | n-Butanol                     | 1250 ug/mL    |
|                  |          |           |                      |                      | VM570809_00010 | 1 mL                | Ethyl acetate                 | 100 ug/mL     |
|                  |          |           |                      |                      |                |                     | Ethyl acrylate                | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Methyl methacrylate           | 100 ug/mL     |
|                  |          |           |                      |                      |                |                     | n-Butyl acetate               | 50 ug/mL      |
|                  |          |           |                      |                      | VM571993_00004 | 1 mL                | Acetonitrile                  | 500 ug/mL     |
|                  |          |           |                      |                      |                |                     | Diisopropyl ether             | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Ethyl-t-butyl ether (ETBE)    | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Propionitrile                 | 500 ug/mL     |
|                  |          |           |                      |                      |                |                     | Tert-amyl-methyl ether (TAME) | 50 ug/mL      |
| ..VM569727_00006 | 08/31/24 |           | RESTEK, Lot A0175475 |                      |                | (Purchased Reagent) | Cyclohexanone                 | 25000 ug/mL   |
| ..vm570806_00005 | 08/31/23 |           | Restek, Lot A0140938 |                      |                | (Purchased Reagent) | Pentachloroethane             | 2500 ug/mL    |
| ..vm570807_00005 | 04/30/22 |           | Restek, Lot A0126478 |                      |                | (Purchased Reagent) | 1-Methylnaphthalene           | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 2-Methylnaphthalene           | 2500 ug/mL    |
| ..VM570808_00008 | 04/30/23 |           | Restek, Lot A0177095 |                      |                | (Purchased Reagent) | 1,2,3-Trimethylbenzene        | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,3,5-Trichlorobenzene        | 2500 ug/mL    |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID          | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                       | Concentration |
|---------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|-------------------------------|---------------|
|                     |          |           |                      |                      | Reagent ID          | Volume Added |                               |               |
|                     |          |           |                      |                      |                     |              | 1-Chlorohexane                | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | 2-Chloro-1,3-butadiene        | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | 2-Nitropropane                | 5000 ug/mL    |
|                     |          |           |                      |                      |                     |              | Benzyl chloride               | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | Isooctane                     | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | Methacrylonitrile             | 25000 ug/mL   |
|                     |          |           |                      |                      |                     |              | n-Butanol                     | 62500 ug/mL   |
| ..VM570809_00010    | 12/31/22 |           | Restek, Lot A0173205 |                      | (Purchased Reagent) |              | Ethyl acetate                 | 5000 ug/mL    |
|                     |          |           |                      |                      |                     |              | Ethyl acrylate                | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | Methyl methacrylate           | 5000 ug/mL    |
|                     |          |           |                      |                      |                     |              | n-Butyl acetate               | 2500 ug/mL    |
| ..VM571993_00004    | 03/31/22 |           | restek, Lot A0158947 |                      | (Purchased Reagent) |              | Acetonitrile                  | 25000 ug/mL   |
|                     |          |           |                      |                      |                     |              | Diisopropyl ether             | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | Ethyl-t-butyl ether (ETBE)    | 2500 ug/mL    |
|                     |          |           |                      |                      |                     |              | Propionitrile                 | 25000 ug/mL   |
|                     |          |           |                      |                      |                     |              | Tert-amyl-methyl ether (TAME) | 2500 ug/mL    |
| <b>VMRA9W_00429</b> | 03/31/22 | 03/24/22  | MEOH, Lot NA         | 5 mL                 | VMRA9_00039         | 5 mL         | Cyclohexanone                 | 500 ug/mL     |
|                     |          |           |                      |                      |                     |              | Pentachloroethane             | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | 2-Methylnaphthalene           | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | 1,2,3-Trimethylbenzene        | 50 ug/mL      |
|                     |          |           |                      |                      |                     |              | 2-Nitropropane                | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Methacrylonitrile             | 500 ug/mL     |
|                     |          |           |                      |                      |                     |              | n-Butanol                     | 1250 ug/mL    |
|                     |          |           |                      |                      |                     |              | Ethyl acetate                 | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Methyl methacrylate           | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Acetonitrile                  | 500 ug/mL     |
|                     |          |           |                      |                      |                     |              | Diisopropyl ether             | 50 ug/mL      |
|                     |          |           |                      |                      |                     |              | Ethyl-t-butyl ether (ETBE)    | 50 ug/mL      |
|                     |          |           |                      |                      |                     |              | Propionitrile                 | 500 ug/mL     |
|                     |          |           |                      |                      |                     |              | Tert-amyl-methyl ether (TAME) | 50 ug/mL      |
| .VMRA9_00039        | 03/31/22 | 02/01/22  | MEOH, Lot 0000273166 | 50 mL                | VM569727_00006      | 1 mL         | Cyclohexanone                 | 500 ug/mL     |
|                     |          |           |                      |                      | vm570806_00005      | 2 mL         | Pentachloroethane             | 100 ug/mL     |
|                     |          |           |                      |                      | vm570807_00005      | 2 mL         | 2-Methylnaphthalene           | 100 ug/mL     |
|                     |          |           |                      |                      | VM570808_00008      | 1 mL         | 1,2,3-Trimethylbenzene        | 50 ug/mL      |
|                     |          |           |                      |                      |                     |              | 2-Nitropropane                | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Methacrylonitrile             | 500 ug/mL     |
|                     |          |           |                      |                      |                     |              | n-Butanol                     | 1250 ug/mL    |
|                     |          |           |                      |                      | VM570809_00010      | 1 mL         | Ethyl acetate                 | 100 ug/mL     |
|                     |          |           |                      |                      |                     |              | Methyl methacrylate           | 100 ug/mL     |
|                     |          |           |                      |                      | VM571993_00004      | 1 mL         | Acetonitrile                  | 500 ug/mL     |
|                     |          |           |                      |                      |                     |              | Diisopropyl ether             | 50 ug/mL      |
|                     |          |           |                      |                      |                     |              | Ethyl-t-butyl ether (ETBE)    | 50 ug/mL      |
|                     |          |           |                      |                      |                     |              | Propionitrile                 | 500 ug/mL     |
|                     |          |           |                      |                      |                     |              | Tert-amyl-methyl ether (TAME) | 50 ug/mL      |
| ..VM569727_00006    | 08/31/24 |           | RESTEK, Lot A0175475 |                      | (Purchased Reagent) |              | Cyclohexanone                 | 25000 ug/mL   |
| ..vm570806_00005    | 08/31/23 |           | Restek, Lot A0140938 |                      | (Purchased Reagent) |              | Pentachloroethane             | 2500 ug/mL    |
| ..vm570807_00005    | 04/30/22 |           | Restek, Lot A0126478 |                      | (Purchased Reagent) |              | 2-Methylnaphthalene           | 2500 ug/mL    |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID       | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                       | Concentration |
|------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|-------------------------------|---------------|
|                  |          |           |                      |                      | Reagent ID          | Volume Added |                               |               |
| ..VM570808_00008 | 04/30/23 |           | Restek, Lot A0177095 |                      | (Purchased Reagent) |              | 1,2,3-Trimethylbenzene        | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | 2-Nitropropane                | 5000 ug/mL    |
|                  |          |           |                      |                      |                     |              | Methacrylonitrile             | 25000 ug/mL   |
|                  |          |           |                      |                      |                     |              | n-Butanol                     | 62500 ug/mL   |
| ..VM570809_00010 | 12/31/22 |           | Restek, Lot A0173205 |                      | (Purchased Reagent) |              | Ethyl acetate                 | 5000 ug/mL    |
|                  |          |           |                      |                      |                     |              | Methyl methacrylate           | 5000 ug/mL    |
| ..VM571993_00004 | 03/31/22 |           | restek, Lot A0158947 |                      | (Purchased Reagent) |              | Acetonitrile                  | 25000 ug/mL   |
|                  |          |           |                      |                      |                     |              | Diisopropyl ether             | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | Ethyl-t-butyl ether (ETBE)    | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | Propionitrile                 | 25000 ug/mL   |
|                  |          |           |                      |                      |                     |              | Tert-amyl-methyl ether (TAME) | 2500 ug/mL    |
| vmrgas_00419     | 03/22/22 | 03/15/22  | MEOH, Lot 0000273166 | 10 mL                | vm569722_00020      | 0.2 mL       | Bromomethane                  | 50 ug/mL      |
|                  |          |           |                      |                      |                     |              | Butadiene                     | 50 ug/mL      |
|                  |          |           |                      |                      |                     |              | Chloroethane                  | 50 ug/mL      |
|                  |          |           |                      |                      |                     |              | Chloromethane                 | 50 ug/mL      |
|                  |          |           |                      |                      |                     |              | Dichlorodifluoromethane       | 50 ug/mL      |
|                  |          |           |                      |                      |                     |              | Dichlorofluoromethane         | 50 ug/mL      |
|                  |          |           |                      |                      |                     |              | Trichlorofluoromethane        | 50 ug/mL      |
|                  |          |           |                      |                      |                     |              | Vinyl chloride                | 50 ug/mL      |
| .vm569722_00020  | 04/30/24 |           | Restek, Lot A0171131 |                      | (Purchased Reagent) |              | Bromomethane                  | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | Butadiene                     | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | Chloroethane                  | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | Chloromethane                 | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | Dichlorodifluoromethane       | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | Dichlorofluoromethane         | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | Trichlorofluoromethane        | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | Vinyl chloride                | 2500 ug/mL    |
| VMRGAS_00420     | 03/30/22 | 03/23/22  | MEOH, Lot 0000273166 | 10 mL                | vm569722_00020      | 0.2 mL       | Bromomethane                  | 50 ug/mL      |
|                  |          |           |                      |                      |                     |              | Chloroethane                  | 50 ug/mL      |
|                  |          |           |                      |                      |                     |              | Chloromethane                 | 50 ug/mL      |
|                  |          |           |                      |                      |                     |              | Dichlorodifluoromethane       | 50 ug/mL      |
|                  |          |           |                      |                      |                     |              | Trichlorofluoromethane        | 50 ug/mL      |
|                  |          |           |                      |                      |                     |              | Vinyl chloride                | 50 ug/mL      |
| .vm569722_00020  | 04/30/24 |           | Restek, Lot A0171131 |                      | (Purchased Reagent) |              | Bromomethane                  | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | Chloroethane                  | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | Chloromethane                 | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | Dichlorodifluoromethane       | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | Trichlorofluoromethane        | 2500 ug/mL    |
|                  |          |           |                      |                      |                     |              | Vinyl chloride                | 2500 ug/mL    |
| vmrprimw_00473   | 03/23/22 | 03/16/22  | MEOH, Lot NA         | 5 mL                 | VMRPRIM_00055       | 5 mL         | 2-Butanone                    | 100 ug/mL     |
|                  |          |           |                      |                      |                     |              | 2-Hexanone                    | 100 ug/mL     |
|                  |          |           |                      |                      |                     |              | 4-Methyl-2-pentanone          | 100 ug/mL     |
|                  |          |           |                      |                      |                     |              | Acetone                       | 100 ug/mL     |
|                  |          |           |                      |                      |                     |              | 2-Chloroethyl vinyl ether     | 100 ug/mL     |
|                  |          |           |                      |                      |                     |              | Vinyl acetate                 | 50 ug/mL      |
|                  |          |           |                      |                      |                     |              | 1,1,1,2-Tetrachloroethane     | 50 ug/mL      |
|                  |          |           |                      |                      |                     |              | 1,1,1-Trichloroethane         | 50 ug/mL      |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                 | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 1,1,2,2-Tetrachloroethane               | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,1,2-Trichloroethane                   | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,1-Dichloroethane                      | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,1-Dichloroethene                      | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,1-Dichloropropene                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2,3-Trichlorobenzene                  | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2,3-Trichloropropane                  | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2,4-Trichlorobenzene                  | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2,4-Trimethylbenzene                  | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2-Dibromo-3-Chloropropane             | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane                       | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                      | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,3,5-Trimethylbenzene                  | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,3-Dichloropropane                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,4-Dioxane                             | 1000 ug/mL    |
|            |          |           |               |                      |                |              | 2,2-Dichloropropane                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                         | 50 ug/mL      |
|            |          |           |               |                      |                |              | 3-Chloro-1-propene                      | 50 ug/mL      |
|            |          |           |               |                      |                |              | 4-Chlorotoluene                         | 50 ug/mL      |
|            |          |           |               |                      |                |              | Acrylonitrile                           | 500 ug/mL     |
|            |          |           |               |                      |                |              | Benzene                                 | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromobenzene                            | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromochloromethane                      | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromodichloromethane                    | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromoform                               | 50 ug/mL      |
|            |          |           |               |                      |                |              | Carbon disulfide                        | 50 ug/mL      |
|            |          |           |               |                      |                |              | Carbon tetrachloride                    | 50 ug/mL      |
|            |          |           |               |                      |                |              | Chlorobenzene                           | 50 ug/mL      |
|            |          |           |               |                      |                |              | Chloroform                              | 50 ug/mL      |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                  | 50 ug/mL      |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropane                 | 50 ug/mL      |
|            |          |           |               |                      |                |              | Cyclohexane                             | 50 ug/mL      |
|            |          |           |               |                      |                |              | Dibromochloromethane                    | 50 ug/mL      |
|            |          |           |               |                      |                |              | Dibromomethane                          | 50 ug/mL      |
|            |          |           |               |                      |                |              | Ethyl ether                             | 50 ug/mL      |
|            |          |           |               |                      |                |              | Ethyl methacrylate                      | 50 ug/mL      |
|            |          |           |               |                      |                |              | Ethylbenzene                            | 50 ug/mL      |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | Hexane                                  | 50 ug/mL      |
|            |          |           |               |                      |                |              | Iodomethane                             | 50 ug/mL      |
|            |          |           |               |                      |                |              | Isobutyl alcohol                        | 1250 ug/mL    |
|            |          |           |               |                      |                |              | Isopropylbenzene                        | 50 ug/mL      |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID     | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent |              | Analyte                                 | Concentration |
|----------------|----------|-----------|----------------------|----------------------|----------------|--------------|---|---------------|
|                |          |           |                      |                      | Reagent ID     | Volume Added |   |               |
|                |          |           |                      |                      |                |              | m-Xylene & p-Xylene                     | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Methyl acetate                          | 100 ug/mL     |
|                |          |           |                      |                      |                |              | Methyl tert-butyl ether                 | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Methylcyclohexane                       | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Methylene Chloride                      | 50 ug/mL      |
|                |          |           |                      |                      |                |              | n-Butylbenzene                          | 50 ug/mL      |
|                |          |           |                      |                      |                |              | n-Heptane                               | 50 ug/mL      |
|                |          |           |                      |                      |                |              | n-Propylbenzene                         | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Naphthalene                             | 50 ug/mL      |
|                |          |           |                      |                      |                |              | o-Xylene                                | 50 ug/mL      |
|                |          |           |                      |                      |                |              | p-Isopropyltoluene                      | 50 ug/mL      |
|                |          |           |                      |                      |                |              | sec-Butylbenzene                        | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Styrene                                 | 50 ug/mL      |
|                |          |           |                      |                      |                |              | tert-Butyl alcohol                      | 500 ug/mL     |
|                |          |           |                      |                      |                |              | tert-Butylbenzene                       | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Tetrachloroethene                       | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Tetrahydrofuran                         | 100 ug/mL     |
|                |          |           |                      |                      |                |              | Toluene                                 | 50 ug/mL      |
|                |          |           |                      |                      |                |              | trans-1,2-Dichloroethene                | 50 ug/mL      |
|                |          |           |                      |                      |                |              | trans-1,3-Dichloropropene               | 50 ug/mL      |
|                |          |           |                      |                      |                |              | trans-1,4-Dichloro-2-butene             | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Trichloroethene                         | 50 ug/mL      |
| .VMRPRIM_00055 | 07/31/22 | 02/25/22  | MEOH, Lot 0000273166 | 50 mL                | VM569721_00007 | 0.4 mL       | 2-Butanone                              | 100 ug/mL     |
|                |          |           |                      |                      |                |              | 2-Hexanone                              | 100 ug/mL     |
|                |          |           |                      |                      |                |              | 4-Methyl-2-pentanone                    | 100 ug/mL     |
|                |          |           |                      |                      |                |              | Acetone                                 | 100 ug/mL     |
|                |          |           |                      |                      | VM569723_00010 | 2 mL         | 2-Chloroethyl vinyl ether               | 100 ug/mL     |
|                |          |           |                      |                      | VM569724_00026 | 0.5 mL       | Vinyl acetate                           | 50 ug/mL      |
|                |          |           |                      |                      | VM571992_00005 | 1 mL         | 1,1,1,2-Tetrachloroethane               | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,1,1-Trichloroethane                   | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,1,2,2-Tetrachloroethane               | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,1,2-Trichloroethane                   | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,1-Dichloroethane                      | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,1-Dichloroethene                      | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,1-Dichloropropene                     | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2,3-Trichlorobenzene                  | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2,3-Trichloropropane                  | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2,4-Trichlorobenzene                  | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2,4-Trimethylbenzene                  | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2-Dibromo-3-Chloropropane             | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2-Dibromoethane                       | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2-Dichlorobenzene                     | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2-Dichloroethane                      | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2-Dichloropropane                     | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,3,5-Trimethylbenzene                  | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,3-Dichlorobenzene                     | 50 ug/mL      |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                 | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|-------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                         |               |
|            |          |           |               |                      |                |              | 1,3-Dichloropropane     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,4-Dioxane             | 1000 ug/mL    |
|            |          |           |               |                      |                |              | 2,2-Dichloropropane     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 2-Chlorotoluene         | 50 ug/mL      |
|            |          |           |               |                      |                |              | 3-Chloro-1-propene      | 50 ug/mL      |
|            |          |           |               |                      |                |              | 4-Chlorotoluene         | 50 ug/mL      |
|            |          |           |               |                      |                |              | Acrylonitrile           | 500 ug/mL     |
|            |          |           |               |                      |                |              | Benzene                 | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromobenzene            | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromochloromethane      | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromodichloromethane    | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromoform               | 50 ug/mL      |
|            |          |           |               |                      |                |              | Carbon disulfide        | 50 ug/mL      |
|            |          |           |               |                      |                |              | Carbon tetrachloride    | 50 ug/mL      |
|            |          |           |               |                      |                |              | Chlorobenzene           | 50 ug/mL      |
|            |          |           |               |                      |                |              | Chloroform              | 50 ug/mL      |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene  | 50 ug/mL      |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene | 50 ug/mL      |
|            |          |           |               |                      |                |              | Cyclohexane             | 50 ug/mL      |
|            |          |           |               |                      |                |              | Dibromochloromethane    | 50 ug/mL      |
|            |          |           |               |                      |                |              | Dibromomethane          | 50 ug/mL      |
|            |          |           |               |                      |                |              | Ethyl ether             | 50 ug/mL      |
|            |          |           |               |                      |                |              | Ethyl methacrylate      | 50 ug/mL      |
|            |          |           |               |                      |                |              | Ethylbenzene            | 50 ug/mL      |
|            |          |           |               |                      |                |              | Hexachlorobutadiene     | 50 ug/mL      |
|            |          |           |               |                      |                |              | Hexane                  | 50 ug/mL      |
|            |          |           |               |                      |                |              | Iodomethane             | 50 ug/mL      |
|            |          |           |               |                      |                |              | Isobutyl alcohol        | 1250 ug/mL    |
|            |          |           |               |                      |                |              | Isopropylbenzene        | 50 ug/mL      |
|            |          |           |               |                      |                |              | m-Xylene & p-Xylene     | 50 ug/mL      |
|            |          |           |               |                      |                |              | Methyl acetate          | 100 ug/mL     |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether | 50 ug/mL      |
|            |          |           |               |                      |                |              | Methylcyclohexane       | 50 ug/mL      |
|            |          |           |               |                      |                |              | Methylene Chloride      | 50 ug/mL      |
|            |          |           |               |                      |                |              | n-Butylbenzene          | 50 ug/mL      |
|            |          |           |               |                      |                |              | n-Heptane               | 50 ug/mL      |
|            |          |           |               |                      |                |              | n-Propylbenzene         | 50 ug/mL      |
|            |          |           |               |                      |                |              | Naphthalene             | 50 ug/mL      |
|            |          |           |               |                      |                |              | o-Xylene                | 50 ug/mL      |
|            |          |           |               |                      |                |              | p-Isopropyltoluene      | 50 ug/mL      |
|            |          |           |               |                      |                |              | sec-Butylbenzene        | 50 ug/mL      |
|            |          |           |               |                      |                |              | Styrene                 | 50 ug/mL      |
|            |          |           |               |                      |                |              | tert-Butyl alcohol      | 500 ug/mL     |
|            |          |           |               |                      |                |              | tert-Butylbenzene       | 50 ug/mL      |
|            |          |           |               |                      |                |              | Tetrachloroethene       | 50 ug/mL      |
|            |          |           |               |                      |                |              | Tetrahydrofuran         | 100 ug/mL     |
|            |          |           |               |                      |                |              | Toluene                 | 50 ug/mL      |



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID       | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent |                     | Analyte                                 | Concentration |
|------------------|----------|-----------|----------------------|----------------------|----------------|---------------------|---|---------------|
|                  |          |           |                      |                      | Reagent ID     | Volume Added        |   |               |
|                  |          |           |                      |                      |                |                     | trans-1,2-Dichloroethene                | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | trans-1,3-Dichloropropene               | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | trans-1,4-Dichloro-2-butene             | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Trichloroethene                         | 50 ug/mL      |
| ..VM569721_00007 | 09/30/22 |           | Restek, Lot A0152956 |                      |                | (Purchased Reagent) | 2-Butanone                              | 12500 ug/mL   |
|                  |          |           |                      |                      |                |                     | 2-Hexanone                              | 12500 ug/mL   |
|                  |          |           |                      |                      |                |                     | 4-Methyl-2-pentanone                    | 12500 ug/mL   |
|                  |          |           |                      |                      |                |                     | Acetone                                 | 12500 ug/mL   |
| ..VM569723_00010 | 09/30/24 |           | restek, Lot A0176827 |                      |                | (Purchased Reagent) | 2-Chloroethyl vinyl ether               | 2500 ug/mL    |
| ..VM569724_00026 | 07/31/22 |           | Restek, Lot A0168154 |                      |                | (Purchased Reagent) | Vinyl acetate                           | 5000 ug/mL    |
| ..VM571992_00005 | 10/31/22 |           | Restek, Lot A0159680 |                      |                | (Purchased Reagent) | 1,1,1,2-Tetrachloroethane               | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,1,1-Trichloroethane                   | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,1,2,2-Tetrachloroethane               | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,1,2-Trichloroethane                   | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,1-Dichloroethane                      | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,1-Dichloroethene                      | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,1-Dichloropropene                     | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,2,3-Trichlorobenzene                  | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,2,3-Trichloropropane                  | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,2,4-Trichlorobenzene                  | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,2,4-Trimethylbenzene                  | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,2-Dibromo-3-Chloropropane             | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,2-Dibromoethane                       | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,2-Dichlorobenzene                     | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,2-Dichloroethane                      | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,2-Dichloropropane                     | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,3,5-Trimethylbenzene                  | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,3-Dichlorobenzene                     | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,3-Dichloropropane                     | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,4-Dichlorobenzene                     | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,4-Dioxane                             | 5000 ug/mL    |
|                  |          |           |                      |                      |                |                     | 2,2-Dichloropropane                     | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 2-Chlorotoluene                         | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 3-Chloro-1-propene                      | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 4-Chlorotoluene                         | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | Acrylonitrile                           | 25000 ug/mL   |
|                  |          |           |                      |                      |                |                     | Benzene                                 | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | Bromobenzene                            | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | Bromochloromethane                      | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | Bromodichloromethane                    | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | Bromoform                               | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | Carbon disulfide                        | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | Carbon tetrachloride                    | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | Chlorobenzene                           | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | Chloroform                              | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | cis-1,2-Dichloroethene                  | 2500 ug/mL    |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID            | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent      |              | Analyte                     | Concentration |
|-----------------------|----------|-----------|----------------------|----------------------|---------------------|--------------|-----------------------------|---------------|
|                       |          |           |                      |                      | Reagent ID          | Volume Added |                             |               |
|                       |          |           |                      |                      |                     |              | cis-1,3-Dichloropropene     | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Cyclohexane                 | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Dibromochloromethane        | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Dibromomethane              | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Ethyl ether                 | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Ethyl methacrylate          | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Ethylbenzene                | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Hexachlorobutadiene         | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Hexane                      | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Iodomethane                 | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Isobutyl alcohol            | 62500 ug/mL   |
|                       |          |           |                      |                      |                     |              | Isopropylbenzene            | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | m-Xylene & p-Xylene         | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Methyl acetate              | 5000 ug/mL    |
|                       |          |           |                      |                      |                     |              | Methyl tert-butyl ether     | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Methylcyclohexane           | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Methylene Chloride          | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | n-Butylbenzene              | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | n-Heptane                   | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | n-Propylbenzene             | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Naphthalene                 | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | o-Xylene                    | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | p-Isopropyltoluene          | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | sec-Butylbenzene            | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Styrene                     | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | tert-Butyl alcohol          | 25000 ug/mL   |
|                       |          |           |                      |                      |                     |              | tert-Butylbenzene           | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Tetrachloroethene           | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Tetrahydrofuran             | 5000 ug/mL    |
|                       |          |           |                      |                      |                     |              | Toluene                     | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | trans-1,2-Dichloroethene    | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | trans-1,3-Dichloropropene   | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | trans-1,4-Dichloro-2-butene | 2500 ug/mL    |
|                       |          |           |                      |                      |                     |              | Trichloroethene             | 2500 ug/mL    |
| <b>VMRPRIMW_00473</b> | 03/23/22 | 03/16/22  | MEOH, Lot NA         | 5 mL                 | VMRPRIM_00055       | 5 mL         | Total BTEX                  | 250 ug/mL     |
|                       |          |           |                      |                      |                     |              | Trihalomethanes, Total      | 200 ug/mL     |
|                       |          |           |                      |                      |                     |              | Xylenes, Total              | 100 ug/mL     |
| .VMRPRIM_00055        | 07/31/22 | 02/25/22  | MEOH, Lot 0000273166 | 50 mL                | VM571992_00005      | 1 mL         | Total BTEX                  | 250 ug/mL     |
|                       |          |           |                      |                      |                     |              | Trihalomethanes, Total      | 200 ug/mL     |
|                       |          |           |                      |                      |                     |              | Xylenes, Total              | 100 ug/mL     |
| ..VM571992_00005      | 10/31/22 |           | Restek, Lot A0159680 |                      | (Purchased Reagent) |              | Total BTEX                  | 12500 ug/mL   |
|                       |          |           |                      |                      |                     |              | Trihalomethanes, Total      | 10000 ug/mL   |
|                       |          |           |                      |                      |                     |              | Xylenes, Total              | 5000 ug/mL    |
| <b>VMRPRIMW_00474</b> | 03/29/22 | 03/22/22  | MEOH, Lot NA         | 5 mL                 | VMRPRIM_00055       | 5 mL         | 2-Butanone                  | 100 ug/mL     |
|                       |          |           |                      |                      |                     |              | 2-Hexanone                  | 100 ug/mL     |
|                       |          |           |                      |                      |                     |              | 4-Methyl-2-pentanone        | 100 ug/mL     |
|                       |          |           |                      |                      |                     |              | Acetone                     | 100 ug/mL     |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                 | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 2-Chloroethyl vinyl ether               | 100 ug/mL     |
|            |          |           |               |                      |                |              | Vinyl acetate                           | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,1,1,2-Tetrachloroethane               | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,1,1-Trichloroethane                   | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,1,2,2-Tetrachloroethane               | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,1-Dichloroethane                      | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,1-Dichloroethene                      | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,1-Dichloropropene                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2,3-Trichlorobenzene                  | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2,3-Trichloropropane                  | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2,4-Trichlorobenzene                  | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2,4-Trimethylbenzene                  | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2-Dibromo-3-Chloropropane             | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane                       | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                      | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,3-Dichloropropane                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 1,4-Dioxane                             | 1000 ug/mL    |
|            |          |           |               |                      |                |              | 2,2-Dichloropropane                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                         | 50 ug/mL      |
|            |          |           |               |                      |                |              | 4-Chlorotoluene                         | 50 ug/mL      |
|            |          |           |               |                      |                |              | Acrylonitrile                           | 500 ug/mL     |
|            |          |           |               |                      |                |              | Benzene                                 | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromobenzene                            | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromochloromethane                      | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromodichloromethane                    | 50 ug/mL      |
|            |          |           |               |                      |                |              | Bromoform                               | 50 ug/mL      |
|            |          |           |               |                      |                |              | Carbon disulfide                        | 50 ug/mL      |
|            |          |           |               |                      |                |              | Carbon tetrachloride                    | 50 ug/mL      |
|            |          |           |               |                      |                |              | Chlorobenzene                           | 50 ug/mL      |
|            |          |           |               |                      |                |              | Chloroform                              | 50 ug/mL      |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                  | 50 ug/mL      |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                 | 50 ug/mL      |
|            |          |           |               |                      |                |              | Dibromochloromethane                    | 50 ug/mL      |
|            |          |           |               |                      |                |              | Dibromomethane                          | 50 ug/mL      |
|            |          |           |               |                      |                |              | Ethylbenzene                            | 50 ug/mL      |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | Isobutyl alcohol                        | 1250 ug/mL    |
|            |          |           |               |                      |                |              | Isopropylbenzene                        | 50 ug/mL      |
|            |          |           |               |                      |                |              | m-Xylene & p-Xylene                     | 50 ug/mL      |
|            |          |           |               |                      |                |              | Methyl acetate                          | 100 ug/mL     |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether                 | 50 ug/mL      |
|            |          |           |               |                      |                |              | Methylene Chloride                      | 50 ug/mL      |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID     | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent |              | Analyte                                 | Concentration |
|----------------|----------|-----------|----------------------|----------------------|----------------|--------------|---|---------------|
|                |          |           |                      |                      | Reagent ID     | Volume Added |   |               |
|                |          |           |                      |                      |                |              | n-Butylbenzene                          | 50 ug/mL      |
|                |          |           |                      |                      |                |              | n-Propylbenzene                         | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Naphthalene                             | 50 ug/mL      |
|                |          |           |                      |                      |                |              | o-Xylene                                | 50 ug/mL      |
|                |          |           |                      |                      |                |              | p-Isopropyltoluene                      | 50 ug/mL      |
|                |          |           |                      |                      |                |              | sec-Butylbenzene                        | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Styrene                                 | 50 ug/mL      |
|                |          |           |                      |                      |                |              | tert-Butyl alcohol                      | 500 ug/mL     |
|                |          |           |                      |                      |                |              | tert-Butylbenzene                       | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Tetrachloroethene                       | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Tetrahydrofuran                         | 100 ug/mL     |
|                |          |           |                      |                      |                |              | Toluene                                 | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Total BTEX                              | 250 ug/mL     |
|                |          |           |                      |                      |                |              | trans-1,2-Dichloroethene                | 50 ug/mL      |
|                |          |           |                      |                      |                |              | trans-1,3-Dichloropropene               | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Trichloroethene                         | 50 ug/mL      |
|                |          |           |                      |                      |                |              | Trihalomethanes, Total                  | 200 ug/mL     |
|                |          |           |                      |                      |                |              | Xylenes, Total                          | 100 ug/mL     |
| .VMRPRIM_00055 | 07/31/22 | 02/25/22  | MEOH, Lot 0000273166 | 50 mL                | VM569721_00007 | 0.4 mL       | 2-Butanone                              | 100 ug/mL     |
|                |          |           |                      |                      |                |              | 2-Hexanone                              | 100 ug/mL     |
|                |          |           |                      |                      |                |              | 4-Methyl-2-pentanone                    | 100 ug/mL     |
|                |          |           |                      |                      |                |              | Acetone                                 | 100 ug/mL     |
|                |          |           |                      |                      | VM569723_00010 | 2 mL         | 2-Chloroethyl vinyl ether               | 100 ug/mL     |
|                |          |           |                      |                      | VM569724_00026 | 0.5 mL       | Vinyl acetate                           | 50 ug/mL      |
|                |          |           |                      |                      | VM571992_00005 | 1 mL         | 1,1,1,2-Tetrachloroethane               | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,1,1-Trichloroethane                   | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,1,2,2-Tetrachloroethane               | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,1-Dichloroethane                      | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,1-Dichloroethene                      | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,1-Dichloropropene                     | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2,3-Trichlorobenzene                  | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2,3-Trichloropropane                  | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2,4-Trichlorobenzene                  | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2,4-Trimethylbenzene                  | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2-Dibromo-3-Chloropropane             | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2-Dibromoethane                       | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2-Dichlorobenzene                     | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2-Dichloroethane                      | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,2-Dichloropropane                     | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,3-Dichlorobenzene                     | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,3-Dichloropropane                     | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,4-Dichlorobenzene                     | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 1,4-Dioxane                             | 1000 ug/mL    |
|                |          |           |                      |                      |                |              | 2,2-Dichloropropane                     | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 2-Chlorotoluene                         | 50 ug/mL      |
|                |          |           |                      |                      |                |              | 4-Chlorotoluene                         | 50 ug/mL      |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID       | Exp Date | Prep Date | Dilutant Used        | Reagent Final Volume | Parent Reagent |                     | Analyte                   | Concentration |
|------------------|----------|-----------|----------------------|----------------------|----------------|---------------------|---------------------------|---------------|
|                  |          |           |                      |                      | Reagent ID     | Volume Added        |                           |               |
|                  |          |           |                      |                      |                |                     | Acrylonitrile             | 500 ug/mL     |
|                  |          |           |                      |                      |                |                     | Benzene                   | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Bromobenzene              | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Bromochloromethane        | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Bromodichloromethane      | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Bromoform                 | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Carbon disulfide          | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Carbon tetrachloride      | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Chlorobenzene             | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Chloroform                | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | cis-1,2-Dichloroethene    | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | cis-1,3-Dichloropropene   | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Dibromochloromethane      | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Dibromomethane            | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Ethylbenzene              | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Hexachlorobutadiene       | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Isobutyl alcohol          | 1250 ug/mL    |
|                  |          |           |                      |                      |                |                     | Isopropylbenzene          | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | m-Xylene & p-Xylene       | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Methyl acetate            | 100 ug/mL     |
|                  |          |           |                      |                      |                |                     | Methyl tert-butyl ether   | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Methylene Chloride        | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | n-Butylbenzene            | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | n-Propylbenzene           | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Naphthalene               | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | o-Xylene                  | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | p-Isopropyltoluene        | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | sec-Butylbenzene          | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Styrene                   | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | tert-Butyl alcohol        | 500 ug/mL     |
|                  |          |           |                      |                      |                |                     | tert-Butylbenzene         | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Tetrachloroethene         | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Tetrahydrofuran           | 100 ug/mL     |
|                  |          |           |                      |                      |                |                     | Toluene                   | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Total BTEX                | 250 ug/mL     |
|                  |          |           |                      |                      |                |                     | trans-1,2-Dichloroethene  | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | trans-1,3-Dichloropropene | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Trichloroethene           | 50 ug/mL      |
|                  |          |           |                      |                      |                |                     | Trihalomethanes, Total    | 200 ug/mL     |
|                  |          |           |                      |                      |                |                     | Xylenes, Total            | 100 ug/mL     |
| ..VM569721_00007 | 09/30/22 |           | Restek, Lot A0152956 |                      |                | (Purchased Reagent) | 2-Butanone                | 12500 ug/mL   |
|                  |          |           |                      |                      |                |                     | 2-Hexanone                | 12500 ug/mL   |
|                  |          |           |                      |                      |                |                     | 4-Methyl-2-pentanone      | 12500 ug/mL   |
|                  |          |           |                      |                      |                |                     | Acetone                   | 12500 ug/mL   |
| ..VM569723_00010 | 09/30/24 |           | restek, Lot A0176827 |                      |                | (Purchased Reagent) | 2-Chloroethyl vinyl ether | 2500 ug/mL    |
| ..VM569724_00026 | 07/31/22 |           | Restek, Lot A0168154 |                      |                | (Purchased Reagent) | Vinyl acetate             | 5000 ug/mL    |
| ..VM571992_00005 | 10/31/22 |           | Restek, Lot A0159680 |                      |                | (Purchased Reagent) | 1,1,1,2-Tetrachloroethane | 2500 ug/mL    |
|                  |          |           |                      |                      |                |                     | 1,1,1-Trichloroethane     | 2500 ug/mL    |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                                 | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |   |               |
|            |          |           |               |                      |                |              | 1,1,2,2-Tetrachloroethane               | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,1,2-Trichloro-1,2,2-trichfluoroethane | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,1-Dichloroethane                      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,1-Dichloroethene                      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,1-Dichloropropene                     | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2,3-Trichlorobenzene                  | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2,3-Trichloropropane                  | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2,4-Trichlorobenzene                  | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2,4-Trimethylbenzene                  | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dibromo-3-Chloropropane             | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dibromoethane                       | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dichlorobenzene                     | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dichloroethane                      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,2-Dichloropropane                     | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,3-Dichlorobenzene                     | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,3-Dichloropropane                     | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,4-Dichlorobenzene                     | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 1,4-Dioxane                             | 50000 ug/mL   |
|            |          |           |               |                      |                |              | 2,2-Dichloropropane                     | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 2-Chlorotoluene                         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | 4-Chlorotoluene                         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Acrylonitrile                           | 25000 ug/mL   |
|            |          |           |               |                      |                |              | Benzene                                 | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Bromobenzene                            | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Bromochloromethane                      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Bromodichloromethane                    | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Bromoform                               | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Carbon disulfide                        | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Carbon tetrachloride                    | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Chlorobenzene                           | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Chloroform                              | 2500 ug/mL    |
|            |          |           |               |                      |                |              | cis-1,2-Dichloroethene                  | 2500 ug/mL    |
|            |          |           |               |                      |                |              | cis-1,3-Dichloropropene                 | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Dibromochloromethane                    | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Dibromomethane                          | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Ethylbenzene                            | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Hexachlorobutadiene                     | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Isobutyl alcohol                        | 62500 ug/mL   |
|            |          |           |               |                      |                |              | Isopropylbenzene                        | 2500 ug/mL    |
|            |          |           |               |                      |                |              | m-Xylene & p-Xylene                     | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Methyl acetate                          | 5000 ug/mL    |
|            |          |           |               |                      |                |              | Methyl tert-butyl ether                 | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Methylene Chloride                      | 2500 ug/mL    |
|            |          |           |               |                      |                |              | n-Butylbenzene                          | 2500 ug/mL    |
|            |          |           |               |                      |                |              | n-Propylbenzene                         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Naphthalene                             | 2500 ug/mL    |
|            |          |           |               |                      |                |              | o-Xylene                                | 2500 ug/mL    |

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

| Reagent ID | Exp Date | Prep Date | Dilutant Used | Reagent Final Volume | Parent Reagent |              | Analyte                   | Concentration |
|------------|----------|-----------|---------------|----------------------|----------------|--------------|---------------------------|---------------|
|            |          |           |               |                      | Reagent ID     | Volume Added |                           |               |
|            |          |           |               |                      |                |              | p-Isopropyltoluene        | 2500 ug/mL    |
|            |          |           |               |                      |                |              | sec-Butylbenzene          | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Styrene                   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | tert-Butyl alcohol        | 25000 ug/mL   |
|            |          |           |               |                      |                |              | tert-Butylbenzene         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Tetrachloroethene         | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Tetrahydrofuran           | 5000 ug/mL    |
|            |          |           |               |                      |                |              | Toluene                   | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Total BTEX                | 12500 ug/mL   |
|            |          |           |               |                      |                |              | trans-1,2-Dichloroethene  | 2500 ug/mL    |
|            |          |           |               |                      |                |              | trans-1,3-Dichloropropene | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Trichloroethene           | 2500 ug/mL    |
|            |          |           |               |                      |                |              | Trihalomethanes, Total    | 10000 ug/mL   |
|            |          |           |               |                      |                |              | Xylenes, Total            | 5000 ug/mL    |

# Method 8260C

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Volatile Organic Compounds (GC/MS)  
by Method 8260C



FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Canton

Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

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-031122 | 240-163634-4     | 98     | 96    | 93    | 98    |
| MSA-SW37B-031122 | 240-163634-5     | 98     | 96    | 94    | 99    |
| MSA-SW37C-031122 | 240-163634-6     | 102    | 98    | 95    | 99    |
| MSA-SW37D-031122 | 240-163634-7     | 100    | 97    | 95    | 99    |
| MSA-SW38A-031122 | 240-163634-8     | 104    | 98    | 96    | 101   |
| MSA-SW38B-031122 | 240-163634-9     | 100    | 95    | 95    | 99    |
| MSA-SW38C-031122 | 240-163634-10    | 101    | 98    | 96    | 101   |
| MSA-SW38D-031122 | 240-163634-11    | 102    | 96    | 94    | 99    |
| MSA-SW40A-031122 | 240-163634-12    | 101    | 99    | 97    | 102   |
| MSA-SW40B-031122 | 240-163634-13    | 102    | 97    | 95    | 101   |
| MSA-SW40C-031122 | 240-163634-14    | 101    | 97    | 95    | 101   |
| MSA-SW40D-031122 | 240-163634-15    | 102    | 97    | 96    | 102   |
| MSA-SW41A-031122 | 240-163634-16    | 101    | 99    | 93    | 100   |
| MSA-SW41B-031122 | 240-163634-17    | 99     | 96    | 92    | 97    |
| MSA-SW41C-031122 | 240-163634-18    | 98     | 97    | 94    | 101   |
| MSA-SW41D-031122 | 240-163634-19    | 99     | 97    | 95    | 99    |
| MSA-SW42A-031122 | 240-163634-20    | 99     | 100   | 95    | 100   |
| MSA-SW42B-031122 | 240-163634-21    | 98     | 96    | 92    | 97    |
| MSA-SW42C-031122 | 240-163634-22    | 101    | 101   | 96    | 101   |
| MSA-SW42D-031122 | 240-163634-23    | 101    | 98    | 94    | 100   |
| MSA-SW43A-031122 | 240-163634-24    | 100    | 99    | 96    | 102   |
| MSA-SW43B-031122 | 240-163634-25    | 98     | 97    | 92    | 99    |
| MSA-SW43C-031122 | 240-163634-26    | 100    | 98    | 95    | 100   |
| MSA-SW43D-031122 | 240-163634-27    | 102    | 100   | 96    | 102   |
| TB-031122        | 240-163634-28    | 98     | 97    | 93    | 98    |
| MSA-SW46A-031122 | 240-163634-29    | 103    | 101   | 97    | 102   |
| MSA-SW47A-031122 | 240-163634-30    | 98     | 98    | 94    | 100   |
| MSA-SW48A-031122 | 240-163634-31    | 99     | 98    | 95    | 100   |
| MSA-SW49A-031122 | 240-163634-32    | 99     | 96    | 93    | 99    |
| MSA-SWEQB-031122 | 240-163634-33    | 97     | 95    | 94    | 98    |
|                  | MB 240-520596/8  | 104    | 97    | 97    | 101   |
|                  | MB 240-520730/9  | 98     | 93    | 94    | 98    |
|                  | LCS 240-520596/5 | 98     | 89    | 94    | 98    |
|                  | LCS 240-520730/5 | 99     | 90    | 95    | 99    |

QC LIMITS

|                                    |        |
|------------------------------------|--------|
| DBFM = Dibromofluoromethane (Surr) | 73-120 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 62-137 |
| TOL = Toluene-d8 (Surr)            | 78-122 |
| BFB = 4-Bromofluorobenzene (Surr)  | 56-136 |

# Column to be used to flag recovery values

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Matrix: Water Level: Low  
 GC Column (1): DB-624 ID: 0.18 (mm)

| Client Sample ID | Lab Sample ID        | DBFM # | DCA # | TOL # | BFB # |
|------------------|----------------------|--------|-------|-------|-------|
|                  | LCSD<br>240-520730/6 | 97     | 90    | 94    | 98    |

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

QC LIMITS  
 73-120  
 62-137  
 78-122  
 56-136

# Column to be used to flag recovery values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Matrix: Water Level: Low Lab File ID: UX000750.D  
 Lab ID: LCS 240-520596/5 Client ID: \_\_\_\_\_

| COMPOUND                    | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-----------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Acetone                     | 40.0                     | 40.7                           | 102             | 50-149              |   |
| Benzene                     | 20.0                     | 22.6                           | 113             | 77-123              |   |
| Bromobenzene                | 20.0                     | 22.4                           | 112             | 80-122              |   |
| Bromochloromethane          | 20.0                     | 22.7                           | 113             | 71-121              |   |
| Bromodichloromethane        | 20.0                     | 22.6                           | 113             | 69-126              |   |
| Bromoform                   | 20.0                     | 21.4                           | 107             | 57-129              |   |
| Bromomethane                | 20.0                     | 19.6                           | 98              | 36-142              |   |
| 2-Butanone                  | 40.0                     | 41.3                           | 103             | 54-156              |   |
| Carbon disulfide            | 20.0                     | 23.8                           | 119             | 43-140              |   |
| Carbon tetrachloride        | 20.0                     | 22.1                           | 111             | 55-137              |   |
| Chlorobenzene               | 20.0                     | 22.0                           | 110             | 80-121              |   |
| Chloroethane                | 20.0                     | 20.3                           | 101             | 38-152              |   |
| 2-Chloroethyl vinyl ether   | 20.0                     | 22.9                           | 114             | 40-157              |   |
| Chloroform                  | 20.0                     | 22.3                           | 112             | 74-122              |   |
| Chloromethane               | 20.0                     | 20.5                           | 103             | 47-143              |   |
| 2-Chlorotoluene             | 20.0                     | 22.6                           | 113             | 79-124              |   |
| 4-Chlorotoluene             | 20.0                     | 22.8                           | 114             | 80-125              |   |
| cis-1,2-Dichloroethene      | 20.0                     | 22.5                           | 112             | 77-123              |   |
| cis-1,3-Dichloropropene     | 20.0                     | 22.3                           | 111             | 64-130              |   |
| Dibromochloromethane        | 20.0                     | 21.6                           | 108             | 70-124              |   |
| 1,2-Dibromo-3-Chloropropane | 20.0                     | 20.5                           | 103             | 53-135              |   |
| 1,2-Dibromoethane           | 20.0                     | 22.0                           | 110             | 71-134              |   |
| Dibromomethane              | 20.0                     | 22.7                           | 114             | 67-131              |   |
| 1,2-Dichlorobenzene         | 20.0                     | 22.6                           | 113             | 78-120              |   |
| 1,3-Dichlorobenzene         | 20.0                     | 22.4                           | 112             | 80-120              |   |
| 1,4-Dichlorobenzene         | 20.0                     | 22.6                           | 113             | 80-120              |   |
| Dichlorodifluoromethane     | 20.0                     | 22.4                           | 112             | 34-153              |   |
| 1,1-Dichloroethane          | 20.0                     | 22.1                           | 111             | 72-127              |   |
| 1,2-Dichloroethane          | 20.0                     | 22.4                           | 112             | 66-128              |   |
| 1,1-Dichloroethene          | 20.0                     | 23.7                           | 118             | 63-134              |   |
| 1,2-Dichloropropane         | 20.0                     | 22.7                           | 113             | 75-133              |   |
| 1,3-Dichloropropane         | 20.0                     | 22.3                           | 111             | 68-139              |   |
| 2,2-Dichloropropane         | 20.0                     | 22.5                           | 112             | 48-142              |   |
| 1,1-Dichloropropene         | 20.0                     | 22.4                           | 112             | 71-124              |   |
| Ethylbenzene                | 20.0                     | 22.6                           | 113             | 80-121              |   |
| Hexachlorobutadiene         | 20.0                     | 22.1                           | 111             | 37-162              |   |
| 2-Hexanone                  | 40.0                     | 43.0                           | 107             | 43-167              |   |
| Isopropylbenzene            | 20.0                     | 22.3                           | 111             | 74-128              |   |
| Methylene Chloride          | 20.0                     | 22.1                           | 111             | 71-125              |   |
| 4-Methyl-2-pentanone        | 40.0                     | 43.7                           | 109             | 46-158              |   |
| Methyl tert-butyl ether     | 20.0                     | 22.9                           | 114             | 65-126              |   |
| m-Xylene & p-Xylene         | 20.0                     | 22.0                           | 110             | 80-120              |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Matrix: Water Level: Low Lab File ID: UX000750.D  
 Lab ID: LCS 240-520596/5 Client ID: \_\_\_\_\_

| COMPOUND                                | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---|--------------------------|--------------------------------|-----------------|---------------------|---|
| Naphthalene                             | 20.0                     | 21.7                           | 108             | 53-138              |   |
| n-Butylbenzene                          | 20.0                     | 22.4                           | 112             | 62-139              |   |
| n-Propylbenzene                         | 20.0                     | 22.5                           | 113             | 76-127              |   |
| o-Xylene                                | 20.0                     | 22.4                           | 112             | 80-123              |   |
| p-Isopropyltoluene                      | 20.0                     | 22.7                           | 113             | 71-132              |   |
| sec-Butylbenzene                        | 20.0                     | 22.9                           | 114             | 69-135              |   |
| Styrene                                 | 20.0                     | 22.5                           | 112             | 80-135              |   |
| tert-Butyl alcohol                      | 200                      | 188                            | 94              | 33-153              |   |
| tert-Butylbenzene                       | 20.0                     | 22.3                           | 111             | 64-134              |   |
| 1,1,1,2-Tetrachloroethane               | 20.0                     | 22.3                           | 112             | 71-124              |   |
| 1,1,2,2-Tetrachloroethane               | 20.0                     | 22.7                           | 113             | 58-157              |   |
| Tetrachloroethene                       | 20.0                     | 22.9                           | 115             | 76-123              |   |
| Toluene                                 | 20.0                     | 21.7                           | 108             | 80-123              |   |
| trans-1,2-Dichloroethene                | 20.0                     | 22.1                           | 111             | 75-124              |   |
| trans-1,3-Dichloropropene               | 20.0                     | 22.3                           | 111             | 57-129              |   |
| 1,2,3-Trichlorobenzene                  | 20.0                     | 21.7                           | 109             | 45-149              |   |
| 1,2,4-Trichlorobenzene                  | 20.0                     | 22.1                           | 110             | 44-147              |   |
| 1,1,1-Trichloroethane                   | 20.0                     | 22.3                           | 111             | 64-131              |   |
| Trichloroethene                         | 20.0                     | 22.2                           | 111             | 70-122              |   |
| Trichlorofluoromethane                  | 20.0                     | 21.1                           | 106             | 30-170              |   |
| 1,2,3-Trichloropropane                  | 20.0                     | 21.5                           | 107             | 57-150              |   |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 20.0                     | 24.1                           | 120             | 51-146              |   |
| 1,2,4-Trimethylbenzene                  | 20.0                     | 22.6                           | 113             | 77-129              |   |
| Vinyl acetate                           | 20.0                     | 26.3                           | 131             | 44-145              |   |
| Vinyl chloride                          | 20.0                     | 21.2                           | 106             | 60-144              |   |
| Xylenes, Total                          | 40.0                     | 44.4                           | 111             | 80-121              |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Matrix: Water Level: Low Lab File ID: UX000781.D  
 Lab ID: LCS 240-520730/5 Client ID: \_\_\_\_\_

| COMPOUND                    | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-----------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Acetone                     | 40.0                     | 33.7                           | 84              | 50-149              |   |
| Benzene                     | 20.0                     | 19.0                           | 95              | 77-123              |   |
| Bromobenzene                | 20.0                     | 18.8                           | 94              | 80-122              |   |
| Bromochloromethane          | 20.0                     | 19.2                           | 96              | 71-121              |   |
| Bromodichloromethane        | 20.0                     | 18.7                           | 93              | 69-126              |   |
| Bromoform                   | 20.0                     | 17.1                           | 86              | 57-129              |   |
| Bromomethane                | 20.0                     | 17.1                           | 86              | 36-142              |   |
| 2-Butanone                  | 40.0                     | 35.2                           | 88              | 54-156              |   |
| Carbon disulfide            | 20.0                     | 20.2                           | 101             | 43-140              |   |
| Carbon tetrachloride        | 20.0                     | 18.4                           | 92              | 55-137              |   |
| Chlorobenzene               | 20.0                     | 18.5                           | 92              | 80-121              |   |
| Chloroethane                | 20.0                     | 18.3                           | 91              | 38-152              |   |
| 2-Chloroethyl vinyl ether   | 20.0                     | 19.0                           | 95              | 40-157              |   |
| Chloroform                  | 20.0                     | 18.8                           | 94              | 74-122              |   |
| Chloromethane               | 20.0                     | 18.0                           | 90              | 47-143              |   |
| 2-Chlorotoluene             | 20.0                     | 19.1                           | 96              | 79-124              |   |
| 4-Chlorotoluene             | 20.0                     | 19.2                           | 96              | 80-125              |   |
| cis-1,2-Dichloroethene      | 20.0                     | 19.3                           | 96              | 77-123              |   |
| cis-1,3-Dichloropropene     | 20.0                     | 18.5                           | 93              | 64-130              |   |
| Dibromochloromethane        | 20.0                     | 17.5                           | 87              | 70-124              |   |
| 1,2-Dibromo-3-Chloropropane | 20.0                     | 16.8                           | 84              | 53-135              |   |
| 1,2-Dibromoethane           | 20.0                     | 18.2                           | 91              | 71-134              |   |
| Dibromomethane              | 20.0                     | 19.0                           | 95              | 67-131              |   |
| 1,2-Dichlorobenzene         | 20.0                     | 19.0                           | 95              | 78-120              |   |
| 1,3-Dichlorobenzene         | 20.0                     | 19.0                           | 95              | 80-120              |   |
| 1,4-Dichlorobenzene         | 20.0                     | 18.9                           | 95              | 80-120              |   |
| Dichlorodifluoromethane     | 20.0                     | 19.2                           | 96              | 34-153              |   |
| 1,1-Dichloroethane          | 20.0                     | 18.6                           | 93              | 72-127              |   |
| 1,2-Dichloroethane          | 20.0                     | 18.8                           | 94              | 66-128              |   |
| 1,1-Dichloroethene          | 20.0                     | 20.1                           | 100             | 63-134              |   |
| 1,2-Dichloropropane         | 20.0                     | 18.9                           | 95              | 75-133              |   |
| 1,3-Dichloropropane         | 20.0                     | 18.4                           | 92              | 68-139              |   |
| 2,2-Dichloropropane         | 20.0                     | 19.0                           | 95              | 48-142              |   |
| 1,1-Dichloropropene         | 20.0                     | 19.0                           | 95              | 71-124              |   |
| Ethylbenzene                | 20.0                     | 18.8                           | 94              | 80-121              |   |
| Hexachlorobutadiene         | 20.0                     | 18.8                           | 94              | 37-162              |   |
| 2-Hexanone                  | 40.0                     | 36.4                           | 91              | 43-167              |   |
| Isopropylbenzene            | 20.0                     | 18.5                           | 93              | 74-128              |   |
| Methylene Chloride          | 20.0                     | 18.6                           | 93              | 71-125              |   |
| 4-Methyl-2-pentanone        | 40.0                     | 37.2                           | 93              | 46-158              |   |
| Methyl tert-butyl ether     | 20.0                     | 19.0                           | 95              | 65-126              |   |
| m-Xylene & p-Xylene         | 20.0                     | 18.3                           | 92              | 80-120              |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Matrix: Water Level: Low Lab File ID: UX000781.D  
 Lab ID: LCS 240-520730/5 Client ID: \_\_\_\_\_

| COMPOUND                                | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---|--------------------------|--------------------------------|-----------------|---------------------|---|
| Naphthalene                             | 20.0                     | 18.3                           | 91              | 53-138              |   |
| n-Butylbenzene                          | 20.0                     | 19.1                           | 95              | 62-139              |   |
| n-Propylbenzene                         | 20.0                     | 18.7                           | 94              | 76-127              |   |
| o-Xylene                                | 20.0                     | 18.6                           | 93              | 80-123              |   |
| p-Isopropyltoluene                      | 20.0                     | 19.2                           | 96              | 71-132              |   |
| sec-Butylbenzene                        | 20.0                     | 19.4                           | 97              | 69-135              |   |
| Styrene                                 | 20.0                     | 18.6                           | 93              | 80-135              |   |
| tert-Butyl alcohol                      | 200                      | 173                            | 86              | 33-153              |   |
| tert-Butylbenzene                       | 20.0                     | 19.0                           | 95              | 64-134              |   |
| 1,1,1,2-Tetrachloroethane               | 20.0                     | 18.4                           | 92              | 71-124              |   |
| 1,1,2,2-Tetrachloroethane               | 20.0                     | 19.1                           | 96              | 58-157              |   |
| Tetrachloroethene                       | 20.0                     | 18.9                           | 94              | 76-123              |   |
| Toluene                                 | 20.0                     | 18.2                           | 91              | 80-123              |   |
| trans-1,2-Dichloroethene                | 20.0                     | 19.2                           | 96              | 75-124              |   |
| trans-1,3-Dichloropropene               | 20.0                     | 18.3                           | 92              | 57-129              |   |
| 1,2,3-Trichlorobenzene                  | 20.0                     | 18.2                           | 91              | 45-149              |   |
| 1,2,4-Trichlorobenzene                  | 20.0                     | 18.3                           | 91              | 44-147              |   |
| 1,1,1-Trichloroethane                   | 20.0                     | 18.8                           | 94              | 64-131              |   |
| Trichloroethene                         | 20.0                     | 18.7                           | 94              | 70-122              |   |
| Trichlorofluoromethane                  | 20.0                     | 18.6                           | 93              | 30-170              |   |
| 1,2,3-Trichloropropane                  | 20.0                     | 18.2                           | 91              | 57-150              |   |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 20.0                     | 20.6                           | 103             | 51-146              |   |
| 1,2,4-Trimethylbenzene                  | 20.0                     | 19.1                           | 95              | 77-129              |   |
| Vinyl acetate                           | 20.0                     | 21.3                           | 106             | 44-145              |   |
| Vinyl chloride                          | 20.0                     | 18.4                           | 92              | 60-144              |   |
| Xylenes, Total                          | 40.0                     | 36.9                           | 92              | 80-121              |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Matrix: Water Level: Low Lab File ID: UX000782.D  
 Lab ID: LCSD 240-520730/6 Client ID: \_\_\_\_\_

| COMPOUND                    | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC | % RPD | QC LIMITS |        | # |
|-----------------------------|--------------------|---------------------------|------------|-------|-----------|--------|---|
|                             |                    |                           |            |       | RPD       | REC    |   |
| Acetone                     | 40.0               | 35.6                      | 89         | 5     | 35        | 50-149 |   |
| Benzene                     | 20.0               | 20.1                      | 101        | 6     | 35        | 77-123 |   |
| Bromobenzene                | 20.0               | 19.8                      | 99         | 5     | 35        | 80-122 |   |
| Bromochloromethane          | 20.0               | 20.8                      | 104        | 8     | 35        | 71-121 |   |
| Bromodichloromethane        | 20.0               | 19.9                      | 100        | 6     | 35        | 69-126 |   |
| Bromoform                   | 20.0               | 17.9                      | 90         | 5     | 35        | 57-129 |   |
| Bromomethane                | 20.0               | 18.7                      | 94         | 9     | 35        | 36-142 |   |
| 2-Butanone                  | 40.0               | 37.1                      | 93         | 5     | 35        | 54-156 |   |
| Carbon disulfide            | 20.0               | 21.1                      | 105        | 4     | 35        | 43-140 |   |
| Carbon tetrachloride        | 20.0               | 19.0                      | 95         | 3     | 35        | 55-137 |   |
| Chlorobenzene               | 20.0               | 19.4                      | 97         | 5     | 35        | 80-121 |   |
| Chloroethane                | 20.0               | 19.4                      | 97         | 6     | 35        | 38-152 |   |
| 2-Chloroethyl vinyl ether   | 20.0               | 20.1                      | 100        | 6     | 35        | 40-157 |   |
| Chloroform                  | 20.0               | 19.7                      | 98         | 5     | 35        | 74-122 |   |
| Chloromethane               | 20.0               | 19.3                      | 97         | 7     | 35        | 47-143 |   |
| 2-Chlorotoluene             | 20.0               | 20.1                      | 101        | 5     | 35        | 79-124 |   |
| 4-Chlorotoluene             | 20.0               | 19.9                      | 100        | 4     | 35        | 80-125 |   |
| cis-1,2-Dichloroethene      | 20.0               | 20.1                      | 100        | 4     | 35        | 77-123 |   |
| cis-1,3-Dichloropropene     | 20.0               | 19.6                      | 98         | 6     | 35        | 64-130 |   |
| Dibromochloromethane        | 20.0               | 18.5                      | 92         | 6     | 35        | 70-124 |   |
| 1,2-Dibromo-3-Chloropropane | 20.0               | 17.7                      | 89         | 5     | 35        | 53-135 |   |
| 1,2-Dibromoethane           | 20.0               | 19.0                      | 95         | 4     | 35        | 71-134 |   |
| Dibromomethane              | 20.0               | 19.7                      | 98         | 4     | 35        | 67-131 |   |
| 1,2-Dichlorobenzene         | 20.0               | 20.2                      | 101        | 6     | 35        | 78-120 |   |
| 1,3-Dichlorobenzene         | 20.0               | 19.9                      | 99         | 5     | 35        | 80-120 |   |
| 1,4-Dichlorobenzene         | 20.0               | 19.9                      | 100        | 5     | 35        | 80-120 |   |
| Dichlorodifluoromethane     | 20.0               | 19.8                      | 99         | 3     | 35        | 34-153 |   |
| 1,1-Dichloroethane          | 20.0               | 19.9                      | 100        | 7     | 35        | 72-127 |   |
| 1,2-Dichloroethane          | 20.0               | 20.0                      | 100        | 6     | 35        | 66-128 |   |
| 1,1-Dichloroethene          | 20.0               | 20.8                      | 104        | 3     | 35        | 63-134 |   |
| 1,2-Dichloropropane         | 20.0               | 20.1                      | 101        | 6     | 35        | 75-133 |   |
| 1,3-Dichloropropane         | 20.0               | 19.4                      | 97         | 5     | 35        | 68-139 |   |
| 2,2-Dichloropropane         | 20.0               | 19.9                      | 100        | 4     | 35        | 48-142 |   |
| 1,1-Dichloropropene         | 20.0               | 19.9                      | 99         | 4     | 35        | 71-124 |   |
| Ethylbenzene                | 20.0               | 19.7                      | 98         | 5     | 35        | 80-121 |   |
| Hexachlorobutadiene         | 20.0               | 19.5                      | 97         | 3     | 35        | 37-162 |   |
| 2-Hexanone                  | 40.0               | 38.4                      | 96         | 5     | 35        | 43-167 |   |
| Isopropylbenzene            | 20.0               | 19.5                      | 97         | 5     | 35        | 74-128 |   |
| Methylene Chloride          | 20.0               | 19.7                      | 98         | 6     | 35        | 71-125 |   |
| 4-Methyl-2-pentanone        | 40.0               | 38.8                      | 97         | 4     | 35        | 46-158 |   |
| Methyl tert-butyl ether     | 20.0               | 20.3                      | 101        | 7     | 35        | 65-126 |   |
| m-Xylene & p-Xylene         | 20.0               | 19.3                      | 96         | 5     | 35        | 80-120 |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Matrix: Water Level: Low Lab File ID: UX000782.D  
 Lab ID: LCSD 240-520730/6 Client ID: \_\_\_\_\_

| COMPOUND                                | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC | % RPD | QC LIMITS |        | # |
|---|--------------------|---------------------------|------------|-------|-----------|--------|---|
|   |                    |                           |            |       | RPD       | REC    |   |
| Naphthalene                             | 20.0               | 19.5                      | 97         | 6     | 35        | 53-138 |   |
| n-Butylbenzene                          | 20.0               | 19.9                      | 99         | 4     | 35        | 62-139 |   |
| n-Propylbenzene                         | 20.0               | 20.1                      | 100        | 7     | 35        | 76-127 |   |
| o-Xylene                                | 20.0               | 19.6                      | 98         | 5     | 35        | 80-123 |   |
| p-Isopropyltoluene                      | 20.0               | 20.0                      | 100        | 4     | 35        | 71-132 |   |
| sec-Butylbenzene                        | 20.0               | 20.2                      | 101        | 4     | 35        | 69-135 |   |
| Styrene                                 | 20.0               | 19.5                      | 98         | 5     | 35        | 80-135 |   |
| tert-Butyl alcohol                      | 200                | 185                       | 93         | 7     | 35        | 33-153 |   |
| tert-Butylbenzene                       | 20.0               | 19.9                      | 99         | 4     | 35        | 64-134 |   |
| 1,1,1,2-Tetrachloroethane               | 20.0               | 19.1                      | 96         | 4     | 35        | 71-124 |   |
| 1,1,2,2-Tetrachloroethane               | 20.0               | 19.9                      | 100        | 4     | 35        | 58-157 |   |
| Tetrachloroethene                       | 20.0               | 19.8                      | 99         | 5     | 35        | 76-123 |   |
| Toluene                                 | 20.0               | 18.8                      | 94         | 4     | 35        | 80-123 |   |
| trans-1,2-Dichloroethene                | 20.0               | 20.1                      | 100        | 5     | 35        | 75-124 |   |
| trans-1,3-Dichloropropene               | 20.0               | 19.2                      | 96         | 5     | 35        | 57-129 |   |
| 1,2,3-Trichlorobenzene                  | 20.0               | 19.4                      | 97         | 6     | 35        | 45-149 |   |
| 1,2,4-Trichlorobenzene                  | 20.0               | 19.5                      | 97         | 6     | 35        | 44-147 |   |
| 1,1,1-Trichloroethane                   | 20.0               | 19.7                      | 98         | 5     | 35        | 64-131 |   |
| Trichloroethene                         | 20.0               | 19.8                      | 99         | 5     | 35        | 70-122 |   |
| Trichlorofluoromethane                  | 20.0               | 19.4                      | 97         | 4     | 35        | 30-170 |   |
| 1,2,3-Trichloropropane                  | 20.0               | 19.1                      | 95         | 5     | 35        | 57-150 |   |
| 1,1,2-Trichloro-1,2,2-trichfluoroethane | 20.0               | 20.9                      | 105        | 2     | 35        | 51-146 |   |
| 1,2,4-Trimethylbenzene                  | 20.0               | 20.2                      | 101        | 6     | 35        | 77-129 |   |
| Vinyl acetate                           | 20.0               | 22.1                      | 111        | 4     | 35        | 44-145 |   |
| Vinyl chloride                          | 20.0               | 19.6                      | 98         | 7     | 35        | 60-144 |   |
| Xylenes, Total                          | 40.0               | 38.9                      | 97         | 5     | 35        | 80-121 |   |

# Column to be used to flag recovery and RPD values



FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab File ID: UX000753.D Lab Sample ID: MB 240-520596/8  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: A3UX9 Date Analyzed: 03/23/2022 11:52  
 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 240-520596/5 | UX000750.D  | 03/23/2022 10:38 |
| MSA-SW37C-031122 | 240-163634-6     | UX000764.D  | 03/23/2022 16:22 |
| MSA-SW37D-031122 | 240-163634-7     | UX000765.D  | 03/23/2022 16:46 |
| MSA-SW38A-031122 | 240-163634-8     | UX000766.D  | 03/23/2022 17:11 |
| MSA-SW38B-031122 | 240-163634-9     | UX000767.D  | 03/23/2022 17:35 |
| MSA-SW38C-031122 | 240-163634-10    | UX000768.D  | 03/23/2022 17:59 |
| MSA-SW38D-031122 | 240-163634-11    | UX000769.D  | 03/23/2022 18:24 |
| MSA-SW40A-031122 | 240-163634-12    | UX000770.D  | 03/23/2022 18:48 |
| MSA-SW40B-031122 | 240-163634-13    | UX000771.D  | 03/23/2022 19:13 |
| MSA-SW40C-031122 | 240-163634-14    | UX000772.D  | 03/23/2022 19:37 |
| MSA-SW40D-031122 | 240-163634-15    | UX000773.D  | 03/23/2022 20:02 |
| MSA-SW41A-031122 | 240-163634-16    | UX000774.D  | 03/23/2022 20:26 |

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab File ID: UX000785.D Lab Sample ID: MB 240-520730/9  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: A3UX9 Date Analyzed: 03/24/2022 13:01  
 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 240-520730/5  | UX000781.D  | 03/24/2022 11:23 |
|                  | LCSD 240-520730/6 | UX000782.D  | 03/24/2022 11:48 |
| MSA-SW37A-031122 | 240-163634-4      | UX000787.D  | 03/24/2022 13:50 |
| MSA-SW37B-031122 | 240-163634-5      | UX000788.D  | 03/24/2022 14:15 |
| MSA-SW41B-031122 | 240-163634-17     | UX000789.D  | 03/24/2022 14:39 |
| MSA-SW41C-031122 | 240-163634-18     | UX000790.D  | 03/24/2022 15:04 |
| MSA-SW41D-031122 | 240-163634-19     | UX000791.D  | 03/24/2022 15:28 |
| MSA-SW42A-031122 | 240-163634-20     | UX000792.D  | 03/24/2022 15:53 |
| MSA-SW42B-031122 | 240-163634-21     | UX000793.D  | 03/24/2022 16:17 |
| MSA-SW42C-031122 | 240-163634-22     | UX000794.D  | 03/24/2022 16:42 |
| MSA-SW42D-031122 | 240-163634-23     | UX000795.D  | 03/24/2022 17:06 |
| MSA-SW43A-031122 | 240-163634-24     | UX000796.D  | 03/24/2022 17:31 |
| MSA-SW43B-031122 | 240-163634-25     | UX000797.D  | 03/24/2022 17:55 |
| MSA-SW43C-031122 | 240-163634-26     | UX000798.D  | 03/24/2022 18:20 |
| MSA-SW43D-031122 | 240-163634-27     | UX000799.D  | 03/24/2022 18:44 |
| TB-031122        | 240-163634-28     | UX000800.D  | 03/24/2022 19:09 |
| MSA-SW46A-031122 | 240-163634-29     | UX000801.D  | 03/24/2022 19:33 |
| MSA-SW47A-031122 | 240-163634-30     | UX000802.D  | 03/24/2022 19:58 |
| MSA-SW48A-031122 | 240-163634-31     | UX000803.D  | 03/24/2022 20:22 |
| MSA-SW49A-031122 | 240-163634-32     | UX000804.D  | 03/24/2022 20:47 |
| MSA-SWEQB-031122 | 240-163634-33     | UX000805.D  | 03/24/2022 21:11 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab File ID: BFB1493.D BFB Injection Date: 03/21/2022  
 Instrument ID: A3UX9 BFB Injection Time: 15:34  
 Analysis Batch No.: 520426

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 20.0                 |
| 75  | 30.0 - 60.0 % of mass 95           | 49.7                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.4                  |
| 173 | Less than 2.0 % of mass 174        | 0.0 (0.0) 1          |
| 174 | Greater than 50% of mass 95        | 73.4                 |
| 175 | 5.0 - 9.0 % of mass 174            | 5.7 (7.8) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 71.9 (98.0) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 4.2 (5.9) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID         | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|-----------------------|-------------|---------------|---------------|
|                  | STD8260 240-520426/8  | UX000684.D  | 03/21/2022    | 16:23         |
|                  | STD8260 240-520426/9  | UX000685.D  | 03/21/2022    | 16:48         |
|                  | STD8260 240-520426/10 | UX000686.D  | 03/21/2022    | 17:12         |
|                  | ICIS 240-520426/11    | UX000687.D  | 03/21/2022    | 17:37         |
|                  | STD8260 240-520426/12 | UX000688.D  | 03/21/2022    | 18:01         |
|                  | STD8260 240-520426/13 | UX000689.D  | 03/21/2022    | 18:25         |
|                  | STD8260 240-520426/14 | UX000690.D  | 03/21/2022    | 18:50         |
|                  | ICV 240-520426/15     | UX000691.D  | 03/21/2022    | 19:14         |
|                  | STDA9 240-520426/18   | UX000694.D  | 03/21/2022    | 20:28         |
|                  | STDA9 240-520426/19   | UX000695.D  | 03/21/2022    | 20:52         |
|                  | STDA9 240-520426/20   | UX000696.D  | 03/21/2022    | 21:17         |
|                  | STDA9 240-520426/21   | UX000697.D  | 03/21/2022    | 21:41         |
|                  | STDA9 240-520426/22   | UX000698.D  | 03/21/2022    | 22:06         |
|                  | STDA9 240-520426/23   | UX000699.D  | 03/21/2022    | 22:30         |
|                  | ICV 240-520426/24     | UX000700.D  | 03/21/2022    | 22:54         |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab File ID: BFB1495.D BFB Injection Date: 03/23/2022  
 Instrument ID: A3UX9 BFB Injection Time: 09:25  
 Analysis Batch No.: 520596

| 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           | 51.1                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.7                  |
| 173 | Less than 2.0 % of mass 174        | 0.0 (0.0) 1          |
| 174 | Greater than 50% of mass 95        | 77.4                 |
| 175 | 5.0 - 9.0 % of mass 174            | 6.0 (7.7) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 74.8 (96.6) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 4.9 (6.5) 2          |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
|                  | CCVIS 240-520596/3 | UX000747.D  | 03/23/2022    | 9:49          |
|                  | CCV 240-520596/4   | UX000749.D  | 03/23/2022    | 10:14         |
|                  | LCS 240-520596/5   | UX000750.D  | 03/23/2022    | 10:38         |
|                  | MB 240-520596/8    | UX000753.D  | 03/23/2022    | 11:52         |
| MSA-SW37C-031122 | 240-163634-6       | UX000764.D  | 03/23/2022    | 16:22         |
| MSA-SW37D-031122 | 240-163634-7       | UX000765.D  | 03/23/2022    | 16:46         |
| MSA-SW38A-031122 | 240-163634-8       | UX000766.D  | 03/23/2022    | 17:11         |
| MSA-SW38B-031122 | 240-163634-9       | UX000767.D  | 03/23/2022    | 17:35         |
| MSA-SW38C-031122 | 240-163634-10      | UX000768.D  | 03/23/2022    | 17:59         |
| MSA-SW38D-031122 | 240-163634-11      | UX000769.D  | 03/23/2022    | 18:24         |
| MSA-SW40A-031122 | 240-163634-12      | UX000770.D  | 03/23/2022    | 18:48         |
| MSA-SW40B-031122 | 240-163634-13      | UX000771.D  | 03/23/2022    | 19:13         |
| MSA-SW40C-031122 | 240-163634-14      | UX000772.D  | 03/23/2022    | 19:37         |
| MSA-SW40D-031122 | 240-163634-15      | UX000773.D  | 03/23/2022    | 20:02         |
| MSA-SW41A-031122 | 240-163634-16      | UX000774.D  | 03/23/2022    | 20:26         |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab File ID: BFB1496.D BFB Injection Date: 03/24/2022  
 Instrument ID: A3UX9 BFB Injection Time: 10:10  
 Analysis Batch No.: 520730

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |          |
|-----|------------------------------------|----------------------|----------|
| 50  | 15.0 - 40.0 % of mass 95           | 19.6                 |          |
| 75  | 30.0 - 60.0 % of mass 95           | 50.3                 |          |
| 95  | Base Peak, 100% relative abundance | 100.0                |          |
| 96  | 5.0 - 9.0 % of mass 95             | 6.4                  |          |
| 173 | Less than 2.0 % of mass 174        | 0.1                  | (0.2) 1  |
| 174 | Greater than 50% of mass 95        | 73.3                 |          |
| 175 | 5.0 - 9.0 % of mass 174            | 5.6                  | (7.7) 1  |
| 176 | 95.0 - 101.0 % of mass 174         | 72.5                 | (98.9) 1 |
| 177 | 5.0 - 9.0 % of mass 176            | 4.6                  | (6.3) 2  |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
|                  | CCVIS 240-520730/3 | UX000779.D  | 03/24/2022    | 10:34         |
|                  | CCV 240-520730/4   | UX000780.D  | 03/24/2022    | 10:59         |
|                  | LCS 240-520730/5   | UX000781.D  | 03/24/2022    | 11:23         |
|                  | LCSD 240-520730/6  | UX000782.D  | 03/24/2022    | 11:48         |
|                  | MB 240-520730/9    | UX000785.D  | 03/24/2022    | 13:01         |
| MSA-SW37A-031122 | 240-163634-4       | UX000787.D  | 03/24/2022    | 13:50         |
| MSA-SW37B-031122 | 240-163634-5       | UX000788.D  | 03/24/2022    | 14:15         |
| MSA-SW41B-031122 | 240-163634-17      | UX000789.D  | 03/24/2022    | 14:39         |
| MSA-SW41C-031122 | 240-163634-18      | UX000790.D  | 03/24/2022    | 15:04         |
| MSA-SW41D-031122 | 240-163634-19      | UX000791.D  | 03/24/2022    | 15:28         |
| MSA-SW42A-031122 | 240-163634-20      | UX000792.D  | 03/24/2022    | 15:53         |
| MSA-SW42B-031122 | 240-163634-21      | UX000793.D  | 03/24/2022    | 16:17         |
| MSA-SW42C-031122 | 240-163634-22      | UX000794.D  | 03/24/2022    | 16:42         |
| MSA-SW42D-031122 | 240-163634-23      | UX000795.D  | 03/24/2022    | 17:06         |
| MSA-SW43A-031122 | 240-163634-24      | UX000796.D  | 03/24/2022    | 17:31         |
| MSA-SW43B-031122 | 240-163634-25      | UX000797.D  | 03/24/2022    | 17:55         |
| MSA-SW43C-031122 | 240-163634-26      | UX000798.D  | 03/24/2022    | 18:20         |
| MSA-SW43D-031122 | 240-163634-27      | UX000799.D  | 03/24/2022    | 18:44         |
| TB-031122        | 240-163634-28      | UX000800.D  | 03/24/2022    | 19:09         |
| MSA-SW46A-031122 | 240-163634-29      | UX000801.D  | 03/24/2022    | 19:33         |
| MSA-SW47A-031122 | 240-163634-30      | UX000802.D  | 03/24/2022    | 19:58         |
| MSA-SW48A-031122 | 240-163634-31      | UX000803.D  | 03/24/2022    | 20:22         |
| MSA-SW49A-031122 | 240-163634-32      | UX000804.D  | 03/24/2022    | 20:47         |
| MSA-SWEQB-031122 | 240-163634-33      | UX000805.D  | 03/24/2022    | 21:11         |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Sample No.: ICIS 240-520426/11 Date Analyzed: 03/21/2022 17:37  
 Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): UX000687.D Heated Purge: (Y/N) N  
 Calibration ID: 64948

|                               | FB               |         | CBNZd5  |        | DCBd4  |        |       |
|-------------------------------|------------------|---------|---------|--------|--------|--------|-------|
|                               | AREA #           | RT #    | AREA #  | RT #   | AREA # | RT #   |       |
| INITIAL CALIBRATION MID-POINT | 1212936          | 5.47    | 915546  | 8.31   | 480108 | 10.70  |       |
| UPPER LIMIT                   | 2425872          | 5.97    | 1831092 | 8.81   | 960216 | 11.20  |       |
| LOWER LIMIT                   | 606468           | 4.97    | 457773  | 7.81   | 240054 | 10.20  |       |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID |         |         |        |        |        |       |
| ICV 240-520426/15             |                  | 1229695 | 5.47    | 935165 | 8.31   | 478393 | 10.70 |
| ICV 240-520426/24             |                  | 1213231 | 5.48    | 936646 | 8.31   | 476165 | 10.70 |
| CCVIS 240-520596/3            |                  | 1226722 | 5.47    | 967058 | 8.31   | 493039 | 10.70 |
| CCVIS 240-520730/3            |                  | 1240650 | 5.47    | 948886 | 8.31   | 497825 | 10.70 |

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

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

RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Sample No.: CCVIS 240-520596/3 Date Analyzed: 03/23/2022 09:49  
 Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): UX000747.D Heated Purge: (Y/N) N  
 Calibration ID: 64952

|                  | FB               |         | CBNZd5  |        | DCBd4  |        |       |
|------------------|------------------|---------|---------|--------|--------|--------|-------|
|                  | AREA #           | RT #    | AREA #  | RT #   | AREA # | RT #   |       |
| 12/24 HOUR STD   | 1226722          | 5.47    | 967058  | 8.31   | 493039 | 10.70  |       |
| UPPER LIMIT      | 2453444          | 5.97    | 1934116 | 8.81   | 986078 | 11.20  |       |
| LOWER LIMIT      | 613361           | 4.97    | 483529  | 7.81   | 246520 | 10.20  |       |
| LAB SAMPLE ID    | CLIENT SAMPLE ID |         |         |        |        |        |       |
| CCV 240-520596/4 |                  | 1228034 | 5.47    | 944338 | 8.31   | 484618 | 10.70 |
| LCS 240-520596/5 |                  | 1254219 | 5.47    | 962712 | 8.31   | 502940 | 10.70 |
| MB 240-520596/8  |                  | 1142424 | 5.47    | 895155 | 8.31   | 464881 | 10.70 |
| 240-163634-6     | MSA-SW37C-031122 | 1162302 | 5.47    | 918872 | 8.31   | 472910 | 10.70 |
| 240-163634-7     | MSA-SW37D-031122 | 1176553 | 5.47    | 913674 | 8.31   | 472838 | 10.70 |
| 240-163634-8     | MSA-SW38A-031122 | 1140538 | 5.47    | 901513 | 8.31   | 465208 | 10.70 |
| 240-163634-9     | MSA-SW38B-031122 | 1168866 | 5.47    | 904454 | 8.31   | 476699 | 10.70 |
| 240-163634-10    | MSA-SW38C-031122 | 1155089 | 5.48    | 902282 | 8.31   | 463346 | 10.70 |
| 240-163634-11    | MSA-SW38D-031122 | 1160817 | 5.48    | 916776 | 8.31   | 461966 | 10.70 |
| 240-163634-12    | MSA-SW40A-031122 | 1158746 | 5.47    | 904196 | 8.31   | 465699 | 10.70 |
| 240-163634-13    | MSA-SW40B-031122 | 1127113 | 5.47    | 886172 | 8.31   | 458363 | 10.70 |
| 240-163634-14    | MSA-SW40C-031122 | 1152062 | 5.47    | 896359 | 8.31   | 467317 | 10.70 |
| 240-163634-15    | MSA-SW40D-031122 | 1134717 | 5.47    | 892178 | 8.31   | 458762 | 10.70 |
| 240-163634-16    | MSA-SW41A-031122 | 1149556 | 5.47    | 911207 | 8.31   | 473302 | 10.70 |

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

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

RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Sample No.: CCVIS 240-520730/3 Date Analyzed: 03/24/2022 10:34  
 Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18 (mm)  
 Lab File ID (Standard): UX000779.D Heated Purge: (Y/N) N  
 Calibration ID: 64952

|                   | FB               |         | CBNZd5  |        | DCBd4  |        |       |
|-------------------|------------------|---------|---------|--------|--------|--------|-------|
|                   | AREA #           | RT #    | AREA #  | RT #   | AREA # | RT #   |       |
| 12/24 HOUR STD    | 1240650          | 5.47    | 948886  | 8.31   | 497825 | 10.70  |       |
| UPPER LIMIT       | 2481300          | 5.97    | 1897772 | 8.81   | 995650 | 11.20  |       |
| LOWER LIMIT       | 620325           | 4.97    | 474443  | 7.81   | 248913 | 10.20  |       |
| LAB SAMPLE ID     | CLIENT SAMPLE ID |         |         |        |        |        |       |
| CCV 240-520730/4  |                  | 1256470 | 5.47    | 960240 | 8.31   | 485357 | 10.70 |
| LCS 240-520730/5  |                  | 1246044 | 5.47    | 969623 | 8.31   | 499083 | 10.70 |
| LCSD 240-520730/6 |                  | 1269254 | 5.47    | 989427 | 8.31   | 510083 | 10.70 |
| MB 240-520730/9   |                  | 1183014 | 5.47    | 928988 | 8.31   | 477312 | 10.70 |
| 240-163634-4      | MSA-SW37A-031122 | 1198190 | 5.47    | 940227 | 8.31   | 482174 | 10.70 |
| 240-163634-5      | MSA-SW37B-031122 | 1178137 | 5.47    | 924566 | 8.31   | 480400 | 10.70 |
| 240-163634-17     | MSA-SW41B-031122 | 1206398 | 5.47    | 956103 | 8.31   | 488157 | 10.70 |
| 240-163634-18     | MSA-SW41C-031122 | 1201414 | 5.47    | 943886 | 8.31   | 491282 | 10.70 |
| 240-163634-19     | MSA-SW41D-031122 | 1183445 | 5.47    | 931992 | 8.31   | 474733 | 10.70 |
| 240-163634-20     | MSA-SW42A-031122 | 1196235 | 5.47    | 942283 | 8.31   | 489479 | 10.70 |
| 240-163634-21     | MSA-SW42B-031122 | 1205241 | 5.47    | 951909 | 8.31   | 492486 | 10.70 |
| 240-163634-22     | MSA-SW42C-031122 | 1176265 | 5.47    | 927975 | 8.31   | 484661 | 10.70 |
| 240-163634-23     | MSA-SW42D-031122 | 1175682 | 5.47    | 928520 | 8.31   | 483735 | 10.70 |
| 240-163634-24     | MSA-SW43A-031122 | 1153917 | 5.47    | 907041 | 8.31   | 476423 | 10.70 |
| 240-163634-25     | MSA-SW43B-031122 | 1163877 | 5.47    | 928001 | 8.31   | 484976 | 10.70 |
| 240-163634-26     | MSA-SW43C-031122 | 1163510 | 5.47    | 922579 | 8.31   | 475443 | 10.70 |
| 240-163634-27     | MSA-SW43D-031122 | 1167335 | 5.48    | 925827 | 8.31   | 485560 | 10.70 |
| 240-163634-28     | TB-031122        | 1173985 | 5.47    | 935757 | 8.31   | 482890 | 10.70 |
| 240-163634-29     | MSA-SW46A-031122 | 1146541 | 5.47    | 913306 | 8.31   | 475926 | 10.70 |
| 240-163634-30     | MSA-SW47A-031122 | 1180436 | 5.47    | 928982 | 8.31   | 480866 | 10.70 |
| 240-163634-31     | MSA-SW48A-031122 | 1176652 | 5.47    | 928434 | 8.31   | 477050 | 10.70 |
| 240-163634-32     | MSA-SW49A-031122 | 1176821 | 5.47    | 937933 | 8.31   | 483423 | 10.70 |
| 240-163634-33     | MSA-SWEQB-031122 | 1165630 | 5.47    | 924048 | 8.31   | 473037 | 10.70 |

FB = Fluorobenzene  
 CBNZd5 = Chlorobenzene-d5  
 DCBd4 = 1,4-Dichlorobenzene-d4

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

# Column used to flag values outside QC limits



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37A-031122 Lab Sample ID: 240-163634-4  
 Matrix: Water Lab File ID: UX000787.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:21  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:50  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37A-031122 Lab Sample ID: 240-163634-4  
 Matrix: Water Lab File ID: UX000787.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:21  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:50  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37A-031122 Lab Sample ID: 240-163634-4  
 Matrix: Water Lab File ID: UX000787.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:21  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:50  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 98   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 78-122 |

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

|   |   |
|---|---|
| Lab Name: <u>Eurofins Canton</u>          | Job No.: <u>240-163634-1</u>                  |
| SDG No.: <u>MSA Frog Mortar Creek</u>     |   |
| Client Sample ID: <u>MSA-SW37A-031122</u> | Lab Sample ID: <u>240-163634-4</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UX000787.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>03/11/2022 10:21</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>03/24/2022 13:50</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>520730</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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37A-031122 Lab Sample ID: 240-163634-4  
 Matrix: Water Lab File ID: UX000787.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:21  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:50  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37B-031122 Lab Sample ID: 240-163634-5  
 Matrix: Water Lab File ID: UX000788.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37B-031122 Lab Sample ID: 240-163634-5  
 Matrix: Water Lab File ID: UX000788.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37B-031122 Lab Sample ID: 240-163634-5  
 Matrix: Water Lab File ID: UX000788.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:15  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |



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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37B-031122 Lab Sample ID: 240-163634-5  
 Matrix: Water Lab File ID: UX000788.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37B-031122 Lab Sample ID: 240-163634-5  
 Matrix: Water Lab File ID: UX000788.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37C-031122 Lab Sample ID: 240-163634-6  
 Matrix: Water Lab File ID: UX000764.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:28  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:22  
 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.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37C-031122 Lab Sample ID: 240-163634-6  
 Matrix: Water Lab File ID: UX000764.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:28  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:22  
 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.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37C-031122 Lab Sample ID: 240-163634-6  
 Matrix: Water Lab File ID: UX000764.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:28  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:22  
 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.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 102  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

|   |   |
|---|---|
| Lab Name: <u>Eurofins Canton</u>          | Job No.: <u>240-163634-1</u>                  |
| SDG No.: <u>MSA Frog Mortar Creek</u>     |   |
| Client Sample ID: <u>MSA-SW37C-031122</u> | Lab Sample ID: <u>240-163634-6</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UX000764.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>03/11/2022 10:28</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>03/23/2022 16:22</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>520596</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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37C-031122 Lab Sample ID: 240-163634-6  
 Matrix: Water Lab File ID: UX000764.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:28  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:22  
 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.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37D-031122 Lab Sample ID: 240-163634-7  
 Matrix: Water Lab File ID: UX000765.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:34  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37D-031122 Lab Sample ID: 240-163634-7  
 Matrix: Water Lab File ID: UX000765.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:34  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37D-031122 Lab Sample ID: 240-163634-7  
 Matrix: Water Lab File ID: UX000765.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:34  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:46  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37D-031122 Lab Sample ID: 240-163634-7  
 Matrix: Water Lab File ID: UX000765.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:34  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW37D-031122 Lab Sample ID: 240-163634-7  
 Matrix: Water Lab File ID: UX000765.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:34  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 16:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT   | RESULT | Q | MATCH QUALITY |
|---------|---------------------------|------|--------|---|---------------|
| 75-45-6 | Chlorodifluoromethane TIC | 2.44 | 1.0    | U | 1%            |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38A-031122 Lab Sample ID: 240-163634-8  
 Matrix: Water Lab File ID: UX000766.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38A-031122 Lab Sample ID: 240-163634-8  
 Matrix: Water Lab File ID: UX000766.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38A-031122 Lab Sample ID: 240-163634-8  
 Matrix: Water Lab File ID: UX000766.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:11  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 104  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38A-031122 Lab Sample ID: 240-163634-8  
 Matrix: Water Lab File ID: UX000766.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38A-031122 Lab Sample ID: 240-163634-8  
 Matrix: Water Lab File ID: UX000766.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38B-031122 Lab Sample ID: 240-163634-9  
 Matrix: Water Lab File ID: UX000767.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:22  
 Sample wt/vol: 5(mL) Date Analyzed: 03/23/2022 17:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38B-031122 Lab Sample ID: 240-163634-9  
 Matrix: Water Lab File ID: UX000767.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:22  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38B-031122 Lab Sample ID: 240-163634-9  
 Matrix: Water Lab File ID: UX000767.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:22  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:35  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38B-031122 Lab Sample ID: 240-163634-9  
 Matrix: Water Lab File ID: UX000767.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:22  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38B-031122 Lab Sample ID: 240-163634-9  
 Matrix: Water Lab File ID: UX000767.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:22  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38C-031122 Lab Sample ID: 240-163634-10  
 Matrix: Water Lab File ID: UX000768.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:25  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38C-031122 Lab Sample ID: 240-163634-10  
 Matrix: Water Lab File ID: UX000768.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:25  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38C-031122 Lab Sample ID: 240-163634-10  
 Matrix: Water Lab File ID: UX000768.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:25  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:59  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38C-031122 Lab Sample ID: 240-163634-10  
 Matrix: Water Lab File ID: UX000768.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:25  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38C-031122 Lab Sample ID: 240-163634-10  
 Matrix: Water Lab File ID: UX000768.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:25  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 17:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38D-031122 Lab Sample ID: 240-163634-11  
 Matrix: Water Lab File ID: UX000769.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:24  
 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.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38D-031122 Lab Sample ID: 240-163634-11  
 Matrix: Water Lab File ID: UX000769.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:24  
 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.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38D-031122 Lab Sample ID: 240-163634-11  
 Matrix: Water Lab File ID: UX000769.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:24  
 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.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 102  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW38D-031122 Lab Sample ID: 240-163634-11  
 Matrix: Water Lab File ID: UX000769.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:24  
 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.: 520596 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: <u>Eurofins Canton</u>          | Job No.: <u>240-163634-1</u>                  |
| SDG No.: <u>MSA Frog Mortar Creek</u>     |   |
| Client Sample ID: <u>MSA-SW38D-031122</u> | Lab Sample ID: <u>240-163634-11</u>           |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UX000769.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>03/11/2022 09:27</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>03/23/2022 18:24</u>        |
| Soil Aliquot Vol: _____                   | Dilution Factor: <u>1</u>                     |
| Soil Extract Vol.: _____                  | GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u> |
| % Moisture: _____                         | Level: (low/med) <u>Low</u>                   |
| Analysis Batch No.: <u>520596</u>         | Units: <u>ug/L</u>                            |

| 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40A-031122 Lab Sample ID: 240-163634-12  
 Matrix: Water Lab File ID: UX000770.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:39  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:48  
 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.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40A-031122 Lab Sample ID: 240-163634-12  
 Matrix: Water Lab File ID: UX000770.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:39  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:48  
 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.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40A-031122 Lab Sample ID: 240-163634-12  
 Matrix: Water Lab File ID: UX000770.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:39  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:48  
 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.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 102  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 97   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40A-031122 Lab Sample ID: 240-163634-12  
 Matrix: Water Lab File ID: UX000770.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:39  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:48  
 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.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40A-031122 Lab Sample ID: 240-163634-12  
 Matrix: Water Lab File ID: UX000770.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:39  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 18:48  
 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.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40B-031122 Lab Sample ID: 240-163634-13  
 Matrix: Water Lab File ID: UX000771.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:43  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40B-031122 Lab Sample ID: 240-163634-13  
 Matrix: Water Lab File ID: UX000771.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:43  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40B-031122 Lab Sample ID: 240-163634-13  
 Matrix: Water Lab File ID: UX000771.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:43  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:13  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 102  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |



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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40B-031122 Lab Sample ID: 240-163634-13  
 Matrix: Water Lab File ID: UX000771.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:43  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40B-031122 Lab Sample ID: 240-163634-13  
 Matrix: Water Lab File ID: UX000771.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:43  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT   | RESULT | Q | MATCH QUALITY |
|---------|---------------------------|------|--------|---|---------------|
| 75-45-6 | Chlorodifluoromethane TIC | 2.45 | 1.0    | U | 1%            |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40C-031122 Lab Sample ID: 240-163634-14  
 Matrix: Water Lab File ID: UX000772.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:47  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40C-031122 Lab Sample ID: 240-163634-14  
 Matrix: Water Lab File ID: UX000772.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:47  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40C-031122 Lab Sample ID: 240-163634-14  
 Matrix: Water Lab File ID: UX000772.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:47  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40C-031122 Lab Sample ID: 240-163634-14  
 Matrix: Water Lab File ID: UX000772.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:47  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40C-031122 Lab Sample ID: 240-163634-14  
 Matrix: Water Lab File ID: UX000772.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:47  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 19:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40D-031122 Lab Sample ID: 240-163634-15  
 Matrix: Water Lab File ID: UX000773.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:51  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 20:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40D-031122 Lab Sample ID: 240-163634-15  
 Matrix: Water Lab File ID: UX000773.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:51  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 20:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40D-031122 Lab Sample ID: 240-163634-15  
 Matrix: Water Lab File ID: UX000773.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:51  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 20:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 102  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 102  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40D-031122 Lab Sample ID: 240-163634-15  
 Matrix: Water Lab File ID: UX000773.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:51  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 20:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW40D-031122 Lab Sample ID: 240-163634-15  
 Matrix: Water Lab File ID: UX000773.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:51  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 20:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41A-031122 Lab Sample ID: 240-163634-16  
 Matrix: Water Lab File ID: UX000774.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:46  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 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.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41A-031122 Lab Sample ID: 240-163634-16  
 Matrix: Water Lab File ID: UX000774.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:46  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 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.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41A-031122 Lab Sample ID: 240-163634-16  
 Matrix: Water Lab File ID: UX000774.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:46  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 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.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41A-031122 Lab Sample ID: 240-163634-16  
 Matrix: Water Lab File ID: UX000774.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:46  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 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.: 520596 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: <u>Eurofins Canton</u>          | Job No.: <u>240-163634-1</u>                  |
| SDG No.: <u>MSA Frog Mortar Creek</u>     |   |
| Client Sample ID: <u>MSA-SW41A-031122</u> | Lab Sample ID: <u>240-163634-16</u>           |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UX000774.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>03/11/2022 08:46</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>03/23/2022 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>520596</u>         | Units: <u>ug/L</u>                            |

| 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41B-031122 Lab Sample ID: 240-163634-17  
 Matrix: Water Lab File ID: UX000789.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:48  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:39  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41B-031122 Lab Sample ID: 240-163634-17  
 Matrix: Water Lab File ID: UX000789.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:48  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:39  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41B-031122 Lab Sample ID: 240-163634-17  
 Matrix: Water Lab File ID: UX000789.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:48  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:39  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 97   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41B-031122 Lab Sample ID: 240-163634-17  
 Matrix: Water Lab File ID: UX000789.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:48  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:39  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41B-031122 Lab Sample ID: 240-163634-17  
 Matrix: Water Lab File ID: UX000789.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:48  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 14:39  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41C-031122 Lab Sample ID: 240-163634-18  
 Matrix: Water Lab File ID: UX000790.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:54  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:04  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41C-031122 Lab Sample ID: 240-163634-18  
 Matrix: Water Lab File ID: UX000790.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:54  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:04  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41C-031122 Lab Sample ID: 240-163634-18  
 Matrix: Water Lab File ID: UX000790.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:54  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:04  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41C-031122 Lab Sample ID: 240-163634-18  
 Matrix: Water Lab File ID: UX000790.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:54  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:04  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41C-031122 Lab Sample ID: 240-163634-18  
 Matrix: Water Lab File ID: UX000790.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:54  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:04  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41D-031122 Lab Sample ID: 240-163634-19  
 Matrix: Water Lab File ID: UX000791.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:59  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41D-031122 Lab Sample ID: 240-163634-19  
 Matrix: Water Lab File ID: UX000791.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:59  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41D-031122 Lab Sample ID: 240-163634-19  
 Matrix: Water Lab File ID: UX000791.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:59  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:28  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41D-031122 Lab Sample ID: 240-163634-19  
 Matrix: Water Lab File ID: UX000791.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:59  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW41D-031122 Lab Sample ID: 240-163634-19  
 Matrix: Water Lab File ID: UX000791.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:59  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42A-031122 Lab Sample ID: 240-163634-20  
 Matrix: Water Lab File ID: UX000792.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:01  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:53  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42A-031122 Lab Sample ID: 240-163634-20  
 Matrix: Water Lab File ID: UX000792.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:01  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:53  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42A-031122 Lab Sample ID: 240-163634-20  
 Matrix: Water Lab File ID: UX000792.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:01  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:53  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 100  |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42A-031122 Lab Sample ID: 240-163634-20  
 Matrix: Water Lab File ID: UX000792.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:01  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:53  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42A-031122 Lab Sample ID: 240-163634-20  
 Matrix: Water Lab File ID: UX000792.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:01  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 15:53  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42B-031122 Lab Sample ID: 240-163634-21  
 Matrix: Water Lab File ID: UX000793.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:06  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:17  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42B-031122 Lab Sample ID: 240-163634-21  
 Matrix: Water Lab File ID: UX000793.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:06  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:17  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42B-031122 Lab Sample ID: 240-163634-21  
 Matrix: Water Lab File ID: UX000793.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:06  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:17  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 97   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 78-122 |



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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42B-031122 Lab Sample ID: 240-163634-21  
 Matrix: Water Lab File ID: UX000793.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:06  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:17  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: <u>Eurofins Canton</u>          | Job No.: <u>240-163634-1</u>                  |
| SDG No.: <u>MSA Frog Mortar Creek</u>     |   |
| Client Sample ID: <u>MSA-SW42B-031122</u> | Lab Sample ID: <u>240-163634-21</u>           |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UX000793.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>03/11/2022 10:06</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>03/24/2022 16:17</u>        |
| Soil Aliquot Vol: _____                   | Dilution Factor: <u>1</u>                     |
| Soil Extract Vol.: _____                  | GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u> |
| % Moisture: _____                         | Level: (low/med) <u>Low</u>                   |
| Analysis Batch No.: <u>520730</u>         | Units: <u>ug/L</u>                            |

| 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42C-031122 Lab Sample ID: 240-163634-22  
 Matrix: Water Lab File ID: UX000794.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:09  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42C-031122 Lab Sample ID: 240-163634-22  
 Matrix: Water Lab File ID: UX000794.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:09  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42C-031122 Lab Sample ID: 240-163634-22  
 Matrix: Water Lab File ID: UX000794.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:09  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:42  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101  |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42C-031122 Lab Sample ID: 240-163634-22  
 Matrix: Water Lab File ID: UX000794.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:09  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42C-031122 Lab Sample ID: 240-163634-22  
 Matrix: Water Lab File ID: UX000794.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:09  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 16:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42D-031122 Lab Sample ID: 240-163634-23  
 Matrix: Water Lab File ID: UX000795.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:14  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:06  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|   |   |
|---|---|
| Lab Name: <u>Eurofins Canton</u>          | Job No.: <u>240-163634-1</u>                  |
| SDG No.: <u>MSA Frog Mortar Creek</u>     |   |
| Client Sample ID: <u>MSA-SW42D-031122</u> | Lab Sample ID: <u>240-163634-23</u>           |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UX000795.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>03/11/2022 10:14</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>03/24/2022 17:06</u>        |
| Soil Aliquot Vol: _____                   | Dilution Factor: <u>1</u>                     |
| Soil Extract Vol.: _____                  | GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u> |
| % Moisture: _____                         | Level: (low/med) <u>Low</u>                   |
| Analysis Batch No.: <u>520730</u>         | Units: <u>ug/L</u>                            |

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42D-031122 Lab Sample ID: 240-163634-23  
 Matrix: Water Lab File ID: UX000795.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:14  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:06  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42D-031122 Lab Sample ID: 240-163634-23  
 Matrix: Water Lab File ID: UX000795.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:14  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:06  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW42D-031122 Lab Sample ID: 240-163634-23  
 Matrix: Water Lab File ID: UX000795.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 10:14  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:06  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43A-031122 Lab Sample ID: 240-163634-24  
 Matrix: Water Lab File ID: UX000796.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:18  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:31  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43A-031122 Lab Sample ID: 240-163634-24  
 Matrix: Water Lab File ID: UX000796.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:18  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:31  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43A-031122 Lab Sample ID: 240-163634-24  
 Matrix: Water Lab File ID: UX000796.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:18  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:31  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 102  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43A-031122 Lab Sample ID: 240-163634-24  
 Matrix: Water Lab File ID: UX000796.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:18  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:31  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43A-031122 Lab Sample ID: 240-163634-24  
 Matrix: Water Lab File ID: UX000796.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:18  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:31  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT   | RESULT | Q | MATCH QUALITY |
|---------|---------------------------|------|--------|---|---------------|
| 75-45-6 | Chlorodifluoromethane TIC | 2.54 | 1.0    | U | 1%            |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43B-031122 Lab Sample ID: 240-163634-25  
 Matrix: Water Lab File ID: UX000797.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:55  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43B-031122 Lab Sample ID: 240-163634-25  
 Matrix: Water Lab File ID: UX000797.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:55  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43B-031122 Lab Sample ID: 240-163634-25  
 Matrix: Water Lab File ID: UX000797.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:55  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43B-031122 Lab Sample ID: 240-163634-25  
 Matrix: Water Lab File ID: UX000797.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:55  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43B-031122 Lab Sample ID: 240-163634-25  
 Matrix: Water Lab File ID: UX000797.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:24  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 17:55  
 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.: 520730 Units: ug/L

| CAS NO. | COMPOUND NAME             | RT   | RESULT | Q | MATCH QUALITY |
|---------|---------------------------|------|--------|---|---------------|
| 75-45-6 | Chlorodifluoromethane TIC | 2.42 | 1.0    | U | 8%            |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43C-031122 Lab Sample ID: 240-163634-26  
 Matrix: Water Lab File ID: UX000798.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 18:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43C-031122 Lab Sample ID: 240-163634-26  
 Matrix: Water Lab File ID: UX000798.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 18:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43C-031122 Lab Sample ID: 240-163634-26  
 Matrix: Water Lab File ID: UX000798.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 18:20  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43C-031122 Lab Sample ID: 240-163634-26  
 Matrix: Water Lab File ID: UX000798.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 18:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43C-031122 Lab Sample ID: 240-163634-26  
 Matrix: Water Lab File ID: UX000798.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 18:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43D-031122 Lab Sample ID: 240-163634-27  
 Matrix: Water Lab File ID: UX000799.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:32  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43D-031122 Lab Sample ID: 240-163634-27  
 Matrix: Water Lab File ID: UX000799.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:32  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43D-031122 Lab Sample ID: 240-163634-27  
 Matrix: Water Lab File ID: UX000799.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:32  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 102  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 102  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 100  |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43D-031122 Lab Sample ID: 240-163634-27  
 Matrix: Water Lab File ID: UX000799.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:32  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW43D-031122 Lab Sample ID: 240-163634-27  
 Matrix: Water Lab File ID: UX000799.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:32  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: TB-031122 Lab Sample ID: 240-163634-28  
 Matrix: Water Lab File ID: UX000800.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: TB-031122 Lab Sample ID: 240-163634-28  
 Matrix: Water Lab File ID: UX000800.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: TB-031122 Lab Sample ID: 240-163634-28  
 Matrix: Water Lab File ID: UX000800.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 98   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: TB-031122 Lab Sample ID: 240-163634-28  
 Matrix: Water Lab File ID: UX000800.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: TB-031122 Lab Sample ID: 240-163634-28  
 Matrix: Water Lab File ID: UX000800.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 00:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW46A-031122 Lab Sample ID: 240-163634-29  
 Matrix: Water Lab File ID: UX000801.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:57  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:33  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW46A-031122 Lab Sample ID: 240-163634-29  
 Matrix: Water Lab File ID: UX000801.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:57  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:33  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW46A-031122 Lab Sample ID: 240-163634-29  
 Matrix: Water Lab File ID: UX000801.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:57  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:33  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 102  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 103  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101  |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 97   |   | 78-122 |



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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW46A-031122 Lab Sample ID: 240-163634-29  
 Matrix: Water Lab File ID: UX000801.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:57  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:33  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW46A-031122 Lab Sample ID: 240-163634-29  
 Matrix: Water Lab File ID: UX000801.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:57  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:33  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW47A-031122 Lab Sample ID: 240-163634-30  
 Matrix: Water Lab File ID: UX000802.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:33  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:58  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW47A-031122 Lab Sample ID: 240-163634-30  
 Matrix: Water Lab File ID: UX000802.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:33  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:58  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW47A-031122 Lab Sample ID: 240-163634-30  
 Matrix: Water Lab File ID: UX000802.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:33  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:58  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW47A-031122 Lab Sample ID: 240-163634-30  
 Matrix: Water Lab File ID: UX000802.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:33  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:58  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW47A-031122 Lab Sample ID: 240-163634-30  
 Matrix: Water Lab File ID: UX000802.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:33  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 19:58  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW48A-031122 Lab Sample ID: 240-163634-31  
 Matrix: Water Lab File ID: UX000803.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:22  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW48A-031122 Lab Sample ID: 240-163634-31  
 Matrix: Water Lab File ID: UX000803.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:22  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW48A-031122 Lab Sample ID: 240-163634-31  
 Matrix: Water Lab File ID: UX000803.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:22  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 100  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |

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

|   |   |
|---|---|
| Lab Name: <u>Eurofins Canton</u>          | Job No.: <u>240-163634-1</u>                  |
| SDG No.: <u>MSA Frog Mortar Creek</u>     |   |
| Client Sample ID: <u>MSA-SW48A-031122</u> | Lab Sample ID: <u>240-163634-31</u>           |
| Matrix: <u>Water</u>                      | Lab File ID: <u>UX000803.D</u>                |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>03/11/2022 09:05</u>       |
| Sample wt/vol: <u>5 (mL)</u>              | Date Analyzed: <u>03/24/2022 20:22</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>520730</u>         | Units: <u>ug/L</u>                            |
| Number TICs Found: <u>1</u>               | TIC Result Total: <u>2.1</u>                  |

| CAS NO.  | COMPOUND NAME       | RT    | RESULT | Q     | MATCH QUALITY |
|----------|---------------------|-------|--------|-------|---------------|
| 104-76-7 | 1-Hexanol, 2-ethyl- | 10.90 | 2.1    | T J N | 78%           |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW48A-031122 Lab Sample ID: 240-163634-31  
 Matrix: Water Lab File ID: UX000803.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 09:05  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:22  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW49A-031122 Lab Sample ID: 240-163634-32  
 Matrix: Water Lab File ID: UX000804.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:38  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:47  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW49A-031122 Lab Sample ID: 240-163634-32  
 Matrix: Water Lab File ID: UX000804.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:38  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:47  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW49A-031122 Lab Sample ID: 240-163634-32  
 Matrix: Water Lab File ID: UX000804.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:38  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:47  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW49A-031122 Lab Sample ID: 240-163634-32  
 Matrix: Water Lab File ID: UX000804.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:38  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:47  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SW49A-031122 Lab Sample ID: 240-163634-32  
 Matrix: Water Lab File ID: UX000804.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 08:38  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 20:47  
 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.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SWEQB-031122 Lab Sample ID: 240-163634-33  
 Matrix: Water Lab File ID: UX000805.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 21:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 7.5    | J | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SWEQB-031122 Lab Sample ID: 240-163634-33  
 Matrix: Water Lab File ID: UX000805.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 21:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SWEQB-031122 Lab Sample ID: 240-163634-33  
 Matrix: Water Lab File ID: UX000805.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 21:11  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 98   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 97   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SWEQB-031122 Lab Sample ID: 240-163634-33  
 Matrix: Water Lab File ID: UX000805.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 21:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 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: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: MSA-SWEQB-031122 Lab Sample ID: 240-163634-33  
 Matrix: Water Lab File ID: UX000805.D  
 Analysis Method: 8260C Date Collected: 03/11/2022 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 21:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520730 Units: ug/L

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

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

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

Calibration Files

| LEVEL:  | LAB SAMPLE ID:        | LAB FILE ID: |
|---------|-----------------------|--------------|
| Level 1 | STD8260 240-520426/8  | UX000684.D   |
| Level 2 | STD8260 240-520426/9  | UX000685.D   |
| Level 3 | STD8260 240-520426/10 | UX000686.D   |
| Level 4 | ICIS 240-520426/11    | UX000687.D   |
| Level 5 | STD8260 240-520426/12 | UX000688.D   |
| Level 6 | STD8260 240-520426/13 | UX000689.D   |
| Level 7 | STD8260 240-520426/14 | UX000690.D   |

| ANALYTE                                     | RRF              |                  |        |        |        | CURVE TYPE | COEFFICIENT |            |    | #      | MIN RRF | %RSD | #    | MAX %RSD | R^2 OR COD | #      | MIN R^2 OR COD |
|---|------------------|------------------|--------|--------|--------|------------|-------------|------------|----|--------|---------|------|------|----------|------------|--------|----------------|
|   | LVL 1            | LVL 2            | LVL 3  | LVL 4  | LVL 5  |            | B           | M1         | M2 |        |         |      |      |          |            |        |                |
|   | LVL 6            | LVL 7            |        |        |        |            |             |            |    |        |         |      |      |          |            |        |                |
| Dichlorodifluoromethane                     | 0.2940<br>0.3023 | 0.2828<br>0.2999 | 0.3055 | 0.3017 | 0.2981 | Ave        | 0.297<br>8  |            |    | 0.1000 | 2.5     |      | 20.0 |          |            |        |                |
| Chloromethane                               | 0.3229<br>0.3265 | 0.3099<br>0.3167 | 0.3210 | 0.3216 | 0.3088 | Ave        | 0.318<br>2  |            |    | 0.1000 | 2.1     |      | 20.0 |          |            |        |                |
| Vinyl chloride                              | 0.3273<br>0.3350 | 0.2991<br>0.3271 | 0.3309 | 0.3343 | 0.3223 | Ave        | 0.325<br>1  |            |    | 0.1000 | 3.8     |      | 20.0 |          |            |        |                |
| Butadiene                                   | 0.2915<br>0.3105 | 0.2844<br>0.2939 | 0.3009 | 0.2978 | 0.3008 | Ave        | 0.297<br>1  |            |    |        | 2.8     |      | 20.0 |          |            |        |                |
| Bromomethane                                | 0.2750<br>0.2397 | 0.2201<br>0.2344 | 0.2093 | 0.2095 | 0.2146 | Ave        | 0.229<br>0  |            |    | 0.0500 | 10.3    |      | 20.0 |          |            |        |                |
| Chloroethane                                | 0.1897<br>0.2342 | 0.1985<br>0.2351 | 0.2183 | 0.2206 | 0.2165 | Ave        | 0.216<br>1  |            |    | 0.0500 | 7.8     |      | 20.0 |          |            |        |                |
| Trichlorofluoromethane                      | 0.3563<br>0.4340 | 0.3903<br>0.4318 | 0.4262 | 0.4263 | 0.4255 | Ave        | 0.412<br>9  |            |    | 0.1000 | 7.0     |      | 20.0 |          |            |        |                |
| Dichlorofluoromethane                       | 0.5862<br>0.5145 | 0.5295<br>0.5065 | 0.5056 | 0.5053 | 0.4916 | Ave        | 0.519<br>9  |            |    |        | 6.0     |      | 20.0 |          |            |        |                |
| Ethyl ether                                 | 0.1948<br>0.2087 | 0.1903<br>0.2085 | 0.2086 | 0.2067 | 0.1970 | Ave        | 0.202<br>1  |            |    |        | 3.9     |      | 20.0 |          |            |        |                |
| 1,1,2-Trichloro-1,2,2-trichfluoroe<br>thane | 0.2023<br>0.2379 | 0.2193<br>0.2310 | 0.2346 | 0.2310 | 0.2286 | Ave        | 0.226<br>4  |            |    | 0.0500 | 5.4     |      | 20.0 |          |            |        |                |
| Acrolein                                    | 0.0694<br>0.0700 | 0.0709<br>0.0676 | 0.0684 | 0.0664 | 0.0649 | Ave        | 0.068<br>2  |            |    |        | 3.1     |      | 20.0 |          |            |        |                |
| 1,1-Dichloroethene                          | 0.3574<br>0.3739 | 0.3437<br>0.3615 | 0.3697 | 0.3674 | 0.3590 | Ave        | 0.361<br>8  |            |    | 0.1000 | 2.8     |      | 20.0 |          |            |        |                |
| Acetone                                     | 0.1262<br>0.0442 | 0.0827<br>0.0428 | 0.0440 | 0.0424 | 0.0413 | Lin1       | 0.082<br>1  | 0.041<br>6 |    | 0.0100 | 4.4     |      |      | 0.9990   |            | 0.9900 |                |

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: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                  | RRF              |                  |        |        |        | CURVE TYPE | COEFFICIENT |            |    | #      | MIN RRF | %RSD | #    | MAX %RSD | R <sup>2</sup> OR COD | # | MIN R <sup>2</sup> OR COD |
|--------------------------|------------------|------------------|--------|--------|--------|------------|-------------|------------|----|--------|---------|------|------|----------|-----------------------|---|---------------------------|
|                          | LVL 1            | LVL 2            | LVL 3  | LVL 4  | LVL 5  |            | B           | M1         | M2 |        |         |      |      |          |                       |   |                           |
|                          | LVL 6            | LVL 7            |        |        |        |            |             |            |    |        |         |      |      |          |                       |   |                           |
| Iodomethane              | 0.2446<br>0.3189 | 0.2510<br>0.3114 | 0.2895 | 0.3070 | 0.2985 | Ave        |             | 0.288<br>7 |    |        | 10.2    |      | 20.0 |          |                       |   |                           |
| Carbon disulfide         | 0.6974<br>0.7141 | 0.6391<br>0.6891 | 0.6915 | 0.7035 | 0.6838 | Ave        |             | 0.688<br>4 |    | 0.1000 | 3.5     |      | 20.0 |          |                       |   |                           |
| 3-Chloro-1-propene       | 0.4547<br>0.4002 | 0.3803<br>0.3801 | 0.4058 | 0.3970 | 0.3815 | Ave        |             | 0.399<br>9 |    |        | 6.6     |      | 20.0 |          |                       |   |                           |
| Methyl acetate           | 0.3562<br>0.3192 | 0.3419<br>0.3097 | 0.3024 | 0.3022 | 0.2961 | Ave        |             | 0.318<br>2 |    | 0.1000 | 7.1     |      | 20.0 |          |                       |   |                           |
| Methylene Chloride       | ++++<br>0.3209   | 0.4094<br>0.3093 | 0.3178 | 0.3116 | 0.3050 | Ave        |             | 0.329<br>0 |    | 0.1000 | 12.1    |      | 20.0 |          |                       |   |                           |
| tert-Butyl alcohol       | 0.0661<br>0.0702 | 0.0614<br>0.0662 | 0.0628 | 0.0618 | 0.0610 | Ave        |             | 0.064<br>2 |    |        | 5.3     |      | 20.0 |          |                       |   |                           |
| Methyl tert-butyl ether  | 0.7619<br>0.8294 | 0.7915<br>0.8089 | 0.8107 | 0.7987 | 0.7828 | Ave        |             | 0.797<br>7 |    | 0.1000 | 2.7     |      | 20.0 |          |                       |   |                           |
| trans-1,2-Dichloroethene | 0.3559<br>0.3678 | 0.3362<br>0.3516 | 0.3681 | 0.3570 | 0.3480 | Ave        |             | 0.355<br>0 |    | 0.1000 | 3.2     |      | 20.0 |          |                       |   |                           |
| Acrylonitrile            | 0.1539<br>0.1609 | 0.1516<br>0.1556 | 0.1550 | 0.1539 | 0.1498 | Ave        |             | 0.154<br>4 |    |        | 2.3     |      | 20.0 |          |                       |   |                           |
| Hexane                   | 0.3157<br>0.3514 | 0.2974<br>0.3437 | 0.3394 | 0.3389 | 0.3378 | Ave        |             | 0.332<br>0 |    |        | 5.7     |      | 20.0 |          |                       |   |                           |
| 1,1-Dichloroethane       | 0.4538<br>0.4794 | 0.4324<br>0.4618 | 0.4768 | 0.4615 | 0.4571 | Ave        |             | 0.460<br>4 |    | 0.2000 | 3.4     |      | 20.0 |          |                       |   |                           |
| Vinyl acetate            | 0.5261<br>0.5047 | 0.5638<br>0.4903 | 0.5422 | 0.5346 | 0.5067 | Ave        |             | 0.524<br>0 |    |        | 4.8     |      | 20.0 |          |                       |   |                           |
| 2,2-Dichloropropane      | 0.4060<br>0.4282 | 0.4095<br>0.4097 | 0.4289 | 0.4249 | 0.4119 | Ave        |             | 0.417<br>0 |    |        | 2.4     |      | 20.0 |          |                       |   |                           |
| cis-1,2-Dichloroethene   | 0.2884<br>0.2909 | 0.2683<br>0.2806 | 0.2853 | 0.2818 | 0.2776 | Ave        |             | 0.281<br>8 |    | 0.1000 | 2.7     |      | 20.0 |          |                       |   |                           |
| 2-Butanone               | 0.0610<br>0.0648 | 0.0647<br>0.0626 | 0.0593 | 0.0601 | 0.0595 | Ave        |             | 0.061<br>7 |    | 0.0100 | 3.8     |      | 20.0 |          |                       |   |                           |
| Bromochloromethane       | 0.1995<br>0.2158 | 0.2077<br>0.2130 | 0.2165 | 0.2120 | 0.2071 | Ave        |             | 0.210<br>2 |    |        | 2.8     |      | 20.0 |          |                       |   |                           |
| Tetrahydrofuran          | 0.1726<br>0.1490 | 0.1504<br>0.1437 | 0.1442 | 0.1407 | 0.1385 | Ave        |             | 0.148<br>5 |    |        | 7.7     |      | 20.0 |          |                       |   |                           |
| Chloroform               | 0.4507<br>0.4622 | 0.4464<br>0.4430 | 0.4665 | 0.4528 | 0.4374 | Ave        |             | 0.451<br>3 |    | 0.2000 | 2.3     |      | 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: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                   | RRF              |                  |        |        |        | CURVE TYPE | COEFFICIENT |            |    | #      | MIN RRF | %RSD | #    | MAX %RSD | R <sup>2</sup> OR COD | # | MIN R <sup>2</sup> OR COD |
|---------------------------|------------------|------------------|--------|--------|--------|------------|-------------|------------|----|--------|---------|------|------|----------|-----------------------|---|---------------------------|
|                           | LVL 1            | LVL 2            | LVL 3  | LVL 4  | LVL 5  |            | B           | M1         | M2 |        |         |      |      |          |                       |   |                           |
|                           | LVL 6            | LVL 7            |        |        |        |            |             |            |    |        |         |      |      |          |                       |   |                           |
| Cyclohexane               | 0.3752<br>0.4193 | 0.3732<br>0.4038 | 0.4053 | 0.4047 | 0.3965 | Ave        |             | 0.396<br>9 |    | 0.1000 | 4.3     |      | 20.0 |          |                       |   |                           |
| 1,1,1-Trichloroethane     | 0.3841<br>0.4233 | 0.3856<br>0.4091 | 0.4237 | 0.4117 | 0.4053 | Ave        |             | 0.406<br>1 |    | 0.1000 | 4.0     |      | 20.0 |          |                       |   |                           |
| Carbon tetrachloride      | 0.3111<br>0.3525 | 0.3196<br>0.3415 | 0.3507 | 0.3438 | 0.3372 | Ave        |             | 0.336<br>6 |    | 0.1000 | 4.7     |      | 20.0 |          |                       |   |                           |
| 1,1-Dichloropropene       | 0.3573<br>0.3854 | 0.3338<br>0.3729 | 0.3797 | 0.3792 | 0.3705 | Ave        |             | 0.368<br>4 |    |        | 4.8     |      | 20.0 |          |                       |   |                           |
| Isobutyl alcohol          | 0.0190<br>0.0198 | 0.0161<br>0.0185 | 0.0175 | 0.0176 | 0.0176 | Ave        |             | 0.018<br>0 |    |        | 6.6     |      | 20.0 |          |                       |   |                           |
| Benzene                   | 1.0672<br>1.1139 | 1.0387<br>1.0681 | 1.0839 | 1.0821 | 1.0651 | Ave        |             | 1.074<br>1 |    | 0.5000 | 2.1     |      | 20.0 |          |                       |   |                           |
| 1,2-Dichloroethane        | 0.3568<br>0.3671 | 0.3641<br>0.3562 | 0.3653 | 0.3580 | 0.3502 | Ave        |             | 0.359<br>7 |    | 0.1000 | 1.7     |      | 20.0 |          |                       |   |                           |
| n-Heptane                 | 0.2060<br>0.2062 | 0.1761<br>0.1998 | 0.1951 | 0.1905 | 0.1931 | Ave        |             | 0.195<br>3 |    |        | 5.3     |      | 20.0 |          |                       |   |                           |
| Trichloroethene           | 0.2652<br>0.2934 | 0.2610<br>0.2837 | 0.2891 | 0.2834 | 0.2800 | Ave        |             | 0.279<br>4 |    | 0.1500 | 4.3     |      | 20.0 |          |                       |   |                           |
| Methylcyclohexane         | 0.3732<br>0.4327 | 0.3678<br>0.4202 | 0.4124 | 0.4152 | 0.4170 | Ave        |             | 0.405<br>5 |    | 0.1000 | 6.1     |      | 20.0 |          |                       |   |                           |
| 1,2-Dichloropropane       | 0.2514<br>0.2696 | 0.2503<br>0.2601 | 0.2649 | 0.2602 | 0.2546 | Ave        |             | 0.258<br>7 |    | 0.1000 | 2.7     |      | 20.0 |          |                       |   |                           |
| 1,4-Dioxane               | 0.0046<br>0.0058 | 0.0046<br>0.0052 | 0.0050 | 0.0051 | 0.0051 | Ave        |             | 0.005<br>1 |    |        | 8.1     |      | 20.0 |          |                       |   |                           |
| Dibromomethane            | 0.1616<br>0.1781 | 0.1691<br>0.1748 | 0.1699 | 0.1704 | 0.1669 | Ave        |             | 0.170<br>1 |    |        | 3.1     |      | 20.0 |          |                       |   |                           |
| Bromodichloromethane      | 0.3003<br>0.3534 | 0.3351<br>0.3455 | 0.3398 | 0.3407 | 0.3362 | Ave        |             | 0.335<br>9 |    | 0.1500 | 5.0     |      | 20.0 |          |                       |   |                           |
| 2-Chloroethyl vinyl ether | 0.1835<br>0.2227 | 0.1891<br>0.2196 | 0.2105 | 0.2156 | 0.2096 | Ave        |             | 0.207<br>2 |    |        | 7.3     |      | 20.0 |          |                       |   |                           |
| cis-1,3-Dichloropropene   | 0.4249<br>0.4590 | 0.4095<br>0.4438 | 0.4437 | 0.4425 | 0.4356 | Ave        |             | 0.437<br>0 |    | 0.1500 | 3.6     |      | 20.0 |          |                       |   |                           |
| 4-Methyl-2-pentanone      | 0.3850<br>0.4221 | 0.3734<br>0.4121 | 0.4004 | 0.3997 | 0.3948 | Ave        |             | 0.398<br>2 |    | 0.0500 | 4.1     |      | 20.0 |          |                       |   |                           |
| Toluene                   | 1.6201<br>1.6070 | 1.5324<br>1.5320 | 1.6012 | 1.5796 | 1.5635 | Ave        |             | 1.576<br>5 |    | 0.4000 | 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: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                   | RRF              |                  |        |        |        | CURVE TYPE | COEFFICIENT |            |    | #      | MIN RRF | %RSD | #    | MAX %RSD | R <sup>2</sup> OR COD | # | MIN R <sup>2</sup> OR COD |
|---------------------------|------------------|------------------|--------|--------|--------|------------|-------------|------------|----|--------|---------|------|------|----------|-----------------------|---|---------------------------|
|                           | LVL 1            | LVL 2            | LVL 3  | LVL 4  | LVL 5  |            | B           | M1         | M2 |        |         |      |      |          |                       |   |                           |
|                           | LVL 6            | LVL 7            |        |        |        |            |             |            |    |        |         |      |      |          |                       |   |                           |
| trans-1,3-Dichloropropene | 0.5286<br>0.5793 | 0.5088<br>0.5626 | 0.5545 | 0.5590 | 0.5592 | Ave        |             | 0.550<br>3 |    | 0.1000 | 4.3     |      | 20.0 |          |                       |   |                           |
| Ethyl methacrylate        | 0.5324<br>0.5831 | 0.4955<br>0.5640 | 0.5580 | 0.5556 | 0.5521 | Ave        |             | 0.548<br>7 |    |        | 5.1     |      | 20.0 |          |                       |   |                           |
| 1,1,2-Trichloroethane     | 0.3118<br>0.3322 | 0.3075<br>0.3210 | 0.3171 | 0.3221 | 0.3164 | Ave        |             | 0.318<br>3 |    | 0.1000 | 2.5     |      | 20.0 |          |                       |   |                           |
| Tetrachloroethene         | 0.3214<br>0.3846 | 0.3401<br>0.3690 | 0.3734 | 0.3714 | 0.3702 | Ave        |             | 0.361<br>4 |    | 0.1500 | 6.2     |      | 20.0 |          |                       |   |                           |
| 1,3-Dichloropropane       | 0.5588<br>0.6015 | 0.5509<br>0.5775 | 0.5852 | 0.5788 | 0.5681 | Ave        |             | 0.574<br>4 |    |        | 2.9     |      | 20.0 |          |                       |   |                           |
| 2-Hexanone                | 0.4170<br>0.4421 | 0.3974<br>0.4256 | 0.4210 | 0.4211 | 0.4185 | Ave        |             | 0.420<br>4 |    | 0.0500 | 3.1     |      | 20.0 |          |                       |   |                           |
| Dibromochloromethane      | 0.3218<br>0.3495 | 0.3218<br>0.3396 | 0.3293 | 0.3319 | 0.3330 | Ave        |             | 0.332<br>4 |    |        | 3.0     |      | 20.0 |          |                       |   |                           |
| 1,2-Dibromoethane         | 0.3482<br>0.3614 | 0.3110<br>0.3492 | 0.3479 | 0.3496 | 0.3398 | Ave        |             | 0.343<br>9 |    |        | 4.6     |      | 20.0 |          |                       |   |                           |
| Chlorobenzene             | 0.9658<br>1.0081 | 0.9513<br>0.9642 | 0.9864 | 0.9885 | 0.9758 | Ave        |             | 0.977<br>2 |    | 0.3000 | 1.9     |      | 20.0 |          |                       |   |                           |
| Ethylbenzene              | 0.5074<br>0.5619 | 0.4987<br>0.5379 | 0.5511 | 0.5581 | 0.5504 | Ave        |             | 0.537<br>9 |    |        | 4.7     |      | 20.0 |          |                       |   |                           |
| 1,1,1,2-Tetrachloroethane | 0.2992<br>0.3609 | 0.3036<br>0.3446 | 0.3440 | 0.3458 | 0.3413 | Ave        |             | 0.334<br>2 |    |        | 7.0     |      | 20.0 |          |                       |   |                           |
| m-Xylene & p-Xylene       | 0.6852<br>0.6954 | 0.6682<br>0.6609 | 0.6896 | 0.6879 | 0.6764 | Ave        |             | 0.680<br>5 |    |        | 1.8     |      | 20.0 |          |                       |   |                           |
| o-Xylene                  | 0.6576<br>0.6659 | 0.6070<br>0.6435 | 0.6574 | 0.6578 | 0.6482 | Ave        |             | 0.648<br>2 |    |        | 3.0     |      | 20.0 |          |                       |   |                           |
| Styrene                   | 1.0329<br>1.1744 | 1.0518<br>1.1208 | 1.1163 | 1.1432 | 1.1303 | Ave        |             | 1.110<br>0 |    | 0.3000 | 4.5     |      | 20.0 |          |                       |   |                           |
| Bromoform                 | 0.2336<br>0.2743 | 0.2255<br>0.2660 | 0.2537 | 0.2577 | 0.2591 | Ave        |             | 0.252<br>9 |    | 0.1000 | 6.9     |      | 20.0 |          |                       |   |                           |
| Isopropylbenzene          | 1.6131<br>1.7301 | 1.5544<br>1.6466 | 1.7177 | 1.7253 | 1.7020 | Ave        |             | 1.669<br>9 |    | 0.1000 | 4.0     |      | 20.0 |          |                       |   |                           |
| Bromobenzene              | 0.7730<br>0.8157 | 0.7189<br>0.7904 | 0.8184 | 0.7974 | 0.7860 | Ave        |             | 0.785<br>7 |    |        | 4.3     |      | 20.0 |          |                       |   |                           |
| 1,1,2,2-Tetrachloroethane | 0.9415<br>1.0084 | 0.9573<br>0.9978 | 0.9961 | 0.9843 | 0.9719 | Ave        |             | 0.979<br>6 |    | 0.3000 | 2.5     |      | 20.0 |          |                       |   |                           |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                     | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |            |    | #      | MIN RRF | %RSD | #    | MAX<br>%RSD | R <sup>2</sup><br>OR COD | # | MIN R <sup>2</sup><br>OR COD |
|-----------------------------|------------------|------------------|--------|--------|--------|---------------|-------------|------------|----|--------|---------|------|------|-------------|--------------------------|---|------------------------------|
|                             | LVL 1            | LVL 2            | LVL 3  | LVL 4  | LVL 5  |               | B           | M1         | M2 |        |         |      |      |             |                          |   |                              |
|                             | LVL 6            | LVL 7            |        |        |        |               |             |            |    |        |         |      |      |             |                          |   |                              |
| n-Propylbenzene             | 0.8235<br>0.9157 | 0.8032<br>0.8898 | 0.9118 | 0.8968 | 0.8979 | Ave           |             | 0.876<br>9 |    |        | 5.1     |      | 20.0 |             |                          |   |                              |
| 1,2,3-Trichloropropane      | 0.3141<br>0.3681 | 0.3748<br>0.3556 | 0.3545 | 0.3507 | 0.3433 | Ave           |             | 0.351<br>6 |    |        | 5.6     |      | 20.0 |             |                          |   |                              |
| trans-1,4-Dichloro-2-butene | 0.3892<br>0.4165 | 0.3586<br>0.4081 | 0.4050 | 0.3974 | 0.3975 | Ave           |             | 0.396<br>0 |    |        | 4.7     |      | 20.0 |             |                          |   |                              |
| 2-Chlorotoluene             | 0.6521<br>0.7799 | 0.6992<br>0.7584 | 0.7720 | 0.7665 | 0.7581 | Ave           |             | 0.740<br>9 |    |        | 6.4     |      | 20.0 |             |                          |   |                              |
| 1,3,5-Trimethylbenzene      | 2.4870<br>2.7112 | 2.3664<br>2.6403 | 2.6872 | 2.6892 | 2.6509 | Ave           |             | 2.604<br>6 |    |        | 4.9     |      | 20.0 |             |                          |   |                              |
| 4-Chlorotoluene             | 0.7601<br>0.8145 | 0.7581<br>0.7936 | 0.8168 | 0.8087 | 0.7989 | Ave           |             | 0.792<br>9 |    |        | 3.1     |      | 20.0 |             |                          |   |                              |
| tert-Butylbenzene           | 2.1072<br>2.2687 | 2.0343<br>2.2128 | 2.2661 | 2.2482 | 2.2394 | Ave           |             | 2.196<br>7 |    |        | 4.1     |      | 20.0 |             |                          |   |                              |
| 1,2,4-Trimethylbenzene      | 2.5728<br>2.7378 | 2.4910<br>2.6540 | 2.7432 | 2.7210 | 2.6908 | Ave           |             | 2.658<br>7 |    |        | 3.6     |      | 20.0 |             |                          |   |                              |
| sec-Butylbenzene            | 0.5414<br>0.6863 | 0.5910<br>0.6635 | 0.6739 | 0.6780 | 0.6737 | Ave           |             | 0.644<br>0 |    |        | 8.6     |      | 20.0 |             |                          |   |                              |
| p-Isopropyltoluene          | 2.4932<br>2.8135 | 2.4813<br>2.7322 | 2.8058 | 2.7576 | 2.7571 | Ave           |             | 2.691<br>5 |    |        | 5.3     |      | 20.0 |             |                          |   |                              |
| 1,3-Dichlorobenzene         | 1.3736<br>1.5146 | 1.3931<br>1.4694 | 1.5252 | 1.4913 | 1.4795 | Ave           |             | 1.463<br>8 |    | 0.6000 | 4.0     |      | 20.0 |             |                          |   |                              |
| 1,4-Dichlorobenzene         | 1.4637<br>1.5359 | 1.4509<br>1.4855 | 1.5244 | 1.5233 | 1.5072 | Ave           |             | 1.498<br>7 |    | 0.5000 | 2.2     |      | 20.0 |             |                          |   |                              |
| n-Butylbenzene              | 2.1035<br>2.3818 | 2.0965<br>2.3204 | 2.3361 | 2.3506 | 2.3426 | Ave           |             | 2.275<br>9 |    |        | 5.3     |      | 20.0 |             |                          |   |                              |
| 1,2-Dichlorobenzene         | 1.3407<br>1.4281 | 1.3204<br>1.3816 | 1.4294 | 1.4007 | 1.3796 | Ave           |             | 1.382<br>9 |    | 0.4000 | 3.0     |      | 20.0 |             |                          |   |                              |
| 1,2-Dibromo-3-Chloropropane | 0.2816<br>0.3352 | 0.2871<br>0.3253 | 0.3105 | 0.3118 | 0.3119 | Ave           |             | 0.309<br>0 |    | 0.0500 | 6.2     |      | 20.0 |             |                          |   |                              |
| 1,2,4-Trichlorobenzene      | 0.8102<br>0.8507 | 0.7543<br>0.8257 | 0.8238 | 0.8147 | 0.8313 | Ave           |             | 0.815<br>8 |    | 0.2000 | 3.7     |      | 20.0 |             |                          |   |                              |
| Hexachlorobutadiene         | 0.3350<br>0.3573 | 0.3248<br>0.3456 | 0.3517 | 0.3576 | 0.3546 | Ave           |             | 0.346<br>7 |    |        | 3.6     |      | 20.0 |             |                          |   |                              |
| Naphthalene                 | 2.5162<br>2.8313 | 2.4456<br>2.7546 | 2.6436 | 2.6841 | 2.6653 | Ave           |             | 2.648<br>7 |    |        | 5.0     |      | 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: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                      | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | #    | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|------------------------------|------------------|------------------|--------|--------|--------|---------------|-------------|------------|----|---|---------|------|------|-------------|---------------|---|-------------------|
|                              | LVL 1            | LVL 2            | LVL 3  | LVL 4  | LVL 5  |               | B           | M1         | M2 |   |         |      |      |             |               |   |                   |
|                              | LVL 6            | LVL 7            |        |        |        |               |             |            |    |   |         |      |      |             |               |   |                   |
| 1,2,3-Trichlorobenzene       | 0.7666<br>0.8070 | 0.7148<br>0.7831 | 0.7842 | 0.7744 | 0.7797 | Ave           |             | 0.772<br>8 |    |   | 3.7     |      | 20.0 |             |               |   |                   |
| Dibromofluoromethane (Surr)  | 0.2404<br>0.2404 | 0.2174<br>0.2395 | 0.2293 | 0.2345 | 0.2312 | Ave           |             | 0.233<br>3 |    |   | 3.6     |      | 20.0 |             |               |   |                   |
| 1,2-Dichloroethane-d4 (Surr) | 0.2945<br>0.3058 | 0.2955<br>0.3005 | 0.2968 | 0.2968 | 0.2935 | Ave           |             | 0.297<br>6 |    |   | 1.4     |      | 20.0 |             |               |   |                   |
| Toluene-d8 (Surr)            | 1.3716<br>1.3236 | 1.2061<br>1.2841 | 1.2878 | 1.3241 | 1.2895 | Ave           |             | 1.298<br>1 |    |   | 3.9     |      | 20.0 |             |               |   |                   |
| 4-Bromofluorobenzene (Surr)  | 0.5497<br>0.5049 | 0.4759<br>0.4915 | 0.4887 | 0.5063 | 0.4922 | Ave           |             | 0.501<br>3 |    |   | 4.7     |      | 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  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

Calibration Files

| LEVEL:  | LAB SAMPLE ID:        | LAB FILE ID: |
|---------|-----------------------|--------------|
| Level 1 | STD8260 240-520426/8  | UX000684.D   |
| Level 2 | STD8260 240-520426/9  | UX000685.D   |
| Level 3 | STD8260 240-520426/10 | UX000686.D   |
| Level 4 | ICIS 240-520426/11    | UX000687.D   |
| Level 5 | STD8260 240-520426/12 | UX000688.D   |
| Level 6 | STD8260 240-520426/13 | UX000689.D   |
| Level 7 | STD8260 240-520426/14 | UX000690.D   |

| ANALYTE                                     | IS REF | CURVE TYPE | RESPONSE         |                  |        |        |        | CONCENTRATION (UG/L) |                |       |       |       |
|---|--------|------------|------------------|------------------|--------|--------|--------|----------------------|----------------|-------|-------|-------|
|   |        |            | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane                     | FB     | Ave        | 8531<br>743957   | 16389<br>1111613 | 183102 | 365923 | 551989 | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Chloromethane                               | FB     | Ave        | 9371<br>803521   | 17960<br>1173561 | 192378 | 390053 | 571724 | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Vinyl chloride                              | FB     | Ave        | 9499<br>824543   | 17336<br>1212108 | 198323 | 405543 | 596667 | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Butadiene                                   | FB     | Ave        | 8460<br>764309   | 16482<br>1089181 | 180341 | 361179 | 556904 | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Bromomethane                                | FB     | Ave        | 7982<br>590008   | 12756<br>868663  | 125419 | 254164 | 397331 | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Chloroethane                                | FB     | Ave        | 5506<br>576575   | 11503<br>871149  | 130836 | 267523 | 400831 | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Trichlorofluoromethane                      | FB     | Ave        | 10341<br>1068131 | 22621<br>1600138 | 255449 | 517023 | 787889 | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Dichlorofluoromethane                       | FB     | Ave        | 17012<br>1266460 | 30688<br>1877045 | 303020 | 612918 | 910193 | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Ethyl ether                                 | FB     | Ave        | 5654<br>513625   | 11028<br>772694  | 124996 | 250763 | 364729 | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| 1,1,2-Trichloro-1,2,2-trichfluor<br>oethane | FB     | Ave        | 5870<br>585614   | 12712<br>856179  | 140625 | 280222 | 423217 | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Acrolein                                    | FB     | Ave        | 10069<br>861744  | 20539<br>1252245 | 204960 | 402924 | 600550 | 2.50<br>200          | 5.00<br>300    | 50.0  | 100   | 150   |
| 1,1-Dichloroethene                          | FB     | Ave        | 10372<br>920276  | 19920<br>1339897 | 221553 | 445659 | 664663 | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Acetone                                     | FB     | Lin1       | 7326<br>217524   | 9585<br>316938   | 52705  | 102740 | 153021 | 1.00<br>80.0         | 2.00<br>120    | 20.0  | 40.0  | 60.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                  | IS REF | CURVE TYPE | RESPONSE         |                  |        |         |         | CONCENTRATION (UG/L) |                |       |       |       |
|--------------------------|--------|------------|------------------|------------------|--------|---------|---------|----------------------|----------------|-------|-------|-------|
|                          |        |            | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4   | LVL 5   | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Iodomethane              | FB     | Ave        | 7097<br>784879   | 14545<br>1154028 | 173467 | 372408  | 552753  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Carbon disulfide         | FB     | Ave        | 20239<br>1757650 | 37041<br>2554022 | 414385 | 853359  | 1266006 | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| 3-Chloro-1-propene       | FB     | Ave        | 13195<br>985039  | 22042<br>1408716 | 243190 | 481520  | 706386  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Methyl acetate           | FB     | Ave        | 20672<br>1571195 | 39627<br>2295445 | 362485 | 733138  | 1096563 | 1.00<br>80.0         | 2.00<br>120    | 20.0  | 40.0  | 60.0  |
| Methylene Chloride       | FB     | Ave        | ++++<br>789732   | 23729<br>1146419 | 190457 | 377945  | 564685  | ++++<br>40.0         | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| tert-Butyl alcohol       | FB     | Ave        | 19178<br>1728365 | 35596<br>2452702 | 376297 | 749551  | 1129727 | 5.00<br>400          | 10.0<br>600    | 100   | 200   | 300   |
| Methyl tert-butyl ether  | FB     | Ave        | 22111<br>2041386 | 45871<br>2997764 | 485826 | 968732  | 1449439 | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| trans-1,2-Dichloroethene | FB     | Ave        | 10329<br>905412  | 19486<br>1303241 | 220626 | 433038  | 644287  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Acrylonitrile            | FB     | Ave        | 44666<br>3960133 | 87868<br>5767799 | 928631 | 1866716 | 2774281 | 5.00<br>400          | 10.0<br>600    | 100   | 200   | 300   |
| Hexane                   | FB     | Ave        | 9162<br>864867   | 17234<br>1273734 | 203429 | 411050  | 625402  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| 1,1-Dichloroethane       | FB     | Ave        | 13169<br>1179979 | 25062<br>1711449 | 285758 | 559771  | 846363  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Vinyl acetate            | FB     | Ave        | 15267<br>1242139 | 32676<br>1817003 | 324963 | 648414  | 938121  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| 2,2-Dichloropropane      | FB     | Ave        | 11783<br>1053932 | 23733<br>1518280 | 257058 | 515426  | 762661  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| cis-1,2-Dichloroethene   | FB     | Ave        | 8369<br>715994   | 15552<br>1039988 | 170974 | 341822  | 513954  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| 2-Butanone               | FB     | Ave        | 3538<br>318893   | 7495<br>464335   | 71101  | 145910  | 220353  | 1.00<br>80.0         | 2.00<br>120    | 20.0  | 40.0  | 60.0  |
| Bromochloromethane       | FB     | Ave        | 5790<br>531086   | 12039<br>789415  | 129741 | 257144  | 383488  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Tetrahydrofuran          | FB     | Ave        | 10020<br>733435  | 17435<br>1065254 | 172840 | 341280  | 512930  | 1.00<br>80.0         | 2.00<br>120    | 20.0  | 40.0  | 60.0  |
| Chloroform               | FB     | Ave        | 13080<br>1137642 | 25870<br>1641898 | 279599 | 549171  | 809889  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                   | IS REF     | CURVE TYPE | RESPONSE         |                  |        |         |         | CONCENTRATION (UG/L) |                |       |       |       |
|---------------------------|------------|------------|------------------|------------------|--------|---------|---------|----------------------|----------------|-------|-------|-------|
|                           |            |            | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4   | LVL 5   | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Cyclohexane               | FB         | Ave        | 10888<br>1032024 | 21631<br>1496477 | 242910 | 490843  | 734104  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| 1,1,1-Trichloroethane     | FB         | Ave        | 11146<br>1041972 | 22349<br>1516173 | 253914 | 499345  | 750525  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Carbon tetrachloride      | FB         | Ave        | 9027<br>867714   | 18522<br>1265527 | 210182 | 416985  | 624357  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| 1,1-Dichloropropene       | FB         | Ave        | 10368<br>948645  | 19345<br>1382045 | 227551 | 459980  | 685953  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Isobutyl alcohol          | FB         | Ave        | 13809<br>1218585 | 23376<br>1713165 | 262686 | 534043  | 815285  | 12.5<br>1000         | 25.0<br>1500   | 250   | 500   | 750   |
| Benzene                   | FB         | Ave        | 30971<br>2741817 | 60200<br>3958365 | 649568 | 1312463 | 1971996 | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| 1,2-Dichloroethane        | FB         | Ave        | 10355<br>903549  | 21102<br>1320276 | 218926 | 434265  | 648340  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| n-Heptane                 | FB         | Ave        | 5978<br>507603   | 10203<br>740431  | 116946 | 231053  | 357595  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Trichloroethene           | FB         | Ave        | 7697<br>722115   | 15125<br>1051400 | 173258 | 343753  | 518420  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Methylcyclohexane         | FB         | Ave        | 10830<br>1064960 | 21313<br>1557469 | 247161 | 503578  | 772168  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| 1,2-Dichloropropane       | FB         | Ave        | 7295<br>663693   | 14507<br>963901  | 158749 | 315574  | 471452  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| 1,4-Dioxane               | FB         | Ave        | 2680<br>287724   | 5381<br>387395   | 59625  | 123952  | 189218  | 10.0<br>800          | 20.0<br>1200   | 200   | 400   | 600   |
| Dibromomethane            | FB         | Ave        | 4690<br>438416   | 9799<br>647929   | 101805 | 206691  | 309011  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| Bromodichloromethane      | FB         | Ave        | 8715<br>869915   | 19420<br>1280618 | 203651 | 413295  | 622487  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| 2-Chloroethyl vinyl ether | FB         | Ave        | 10651<br>1096386 | 21914<br>1627862 | 252296 | 522905  | 776127  | 1.00<br>80.0         | 2.00<br>120    | 20.0  | 40.0  | 60.0  |
| cis-1,3-Dichloropropene   | FB         | Ave        | 12331<br>1129841 | 23730<br>1644888 | 265909 | 536742  | 806525  | 0.500<br>40.0        | 1.00<br>60.0   | 10.0  | 20.0  | 30.0  |
| 4-Methyl-2-pentanone      | FB         | Ave        | 22348<br>2077794 | 43283<br>3054274 | 479955 | 969577  | 1462040 | 1.00<br>80.0         | 2.00<br>120    | 20.0  | 40.0  | 60.0  |
| Toluene                   | CBNZ<br>d5 | Ave        | 35338            | 67287            | 724316 | 1446163 | 2166163 | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                   | IS REF     | CURVE TYPE | RESPONSE       |                |        |        |         | CONCENTRATION (UG/L) |                |       |       |       |
|---------------------------|------------|------------|----------------|----------------|--------|--------|---------|----------------------|----------------|-------|-------|-------|
|                           |            |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3  | LVL 4  | LVL 5   | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
|                           |            |            | 2982551        | 4306368        |        |        |         | 40.0                 | 60.0           |       |       |       |
| trans-1,3-Dichloropropene | CBNZ<br>d5 | Ave        | 11529          | 22341          | 250818 | 511760 | 774673  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                           |            |            | 1075289        | 1581473        |        |        |         | 40.0                 | 60.0           |       |       |       |
| Ethyl methacrylate        | CBNZ<br>d5 | Ave        | 11612          | 21759          | 252430 | 508642 | 764949  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                           |            |            | 1082183        | 1585436        |        |        |         | 40.0                 | 60.0           |       |       |       |
| 1,1,2-Trichloroethane     | CBNZ<br>d5 | Ave        | 6801           | 13504          | 143460 | 294874 | 438396  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                           |            |            | 616595         | 902164         |        |        |         | 40.0                 | 60.0           |       |       |       |
| Tetrachloroethene         | CBNZ<br>d5 | Ave        | 7010           | 14934          | 168901 | 340038 | 512926  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                           |            |            | 713760         | 1037306        |        |        |         | 40.0                 | 60.0           |       |       |       |
| 1,3-Dichloropropane       | CBNZ<br>d5 | Ave        | 12189          | 24189          | 264731 | 529956 | 787121  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                           |            |            | 1116454        | 1623300        |        |        |         | 40.0                 | 60.0           |       |       |       |
| 2-Hexanone                | CBNZ<br>d5 | Ave        | 18193          | 34897          | 380878 | 771014 | 1159492 | 1.00                 | 2.00           | 20.0  | 40.0  | 60.0  |
|                           |            |            | 1641192        | 2392816        |        |        |         | 80.0                 | 120            |       |       |       |
| Dibromochloromethane      | CBNZ<br>d5 | Ave        | 7019           | 14129          | 148954 | 303893 | 461395  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                           |            |            | 648730         | 954545         |        |        |         | 40.0                 | 60.0           |       |       |       |
| 1,2-Dibromoethane         | CBNZ<br>d5 | Ave        | 7595           | 13657          | 157390 | 320119 | 470710  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                           |            |            | 670787         | 981631         |        |        |         | 40.0                 | 60.0           |       |       |       |
| Chlorobenzene             | CBNZ<br>d5 | Ave        | 21066          | 41773          | 446184 | 905010 | 1351876 | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                           |            |            | 1871025        | 2710342        |        |        |         | 40.0                 | 60.0           |       |       |       |
| Ethylbenzene              | CBNZ<br>d5 | Ave        | 11067          | 21900          | 249316 | 510975 | 762495  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                           |            |            | 1042909        | 1511923        |        |        |         | 40.0                 | 60.0           |       |       |       |
| 1,1,1,2-Tetrachloroethane | CBNZ<br>d5 | Ave        | 6526           | 13329          | 155590 | 316604 | 472878  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                           |            |            | 669865         | 968562         |        |        |         | 40.0                 | 60.0           |       |       |       |
| m-Xylene & p-Xylene       | CBNZ<br>d5 | Ave        | 14946          | 29341          | 311960 | 629804 | 937146  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |



FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                     | IS REF     | CURVE TYPE | RESPONSE       |                |        |         |         | CONCENTRATION (UG/L) |                |       |       |       |
|-----------------------------|------------|------------|----------------|----------------|--------|---------|---------|----------------------|----------------|-------|-------|-------|
|                             |            |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3  | LVL 4   | LVL 5   | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
|                             |            |            | 1290673        | 1857581        |        |         |         | 40.0                 | 60.0           |       |       |       |
| o-Xylene                    | CBNZ<br>d5 | Ave        | 14343          | 26655          | 297379 | 602229  | 898022  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |            |            | 1235963        | 1808724        |        |         |         | 40.0                 | 60.0           |       |       |       |
| Styrene                     | CBNZ<br>d5 | Ave        | 22530          | 46184          | 504985 | 1046664 | 1565914 | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |            |            | 2179707        | 3150490        |        |         |         | 40.0                 | 60.0           |       |       |       |
| Bromoform                   | CBNZ<br>d5 | Ave        | 5095           | 9903           | 114765 | 235969  | 358932  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |            |            | 509183         | 747756         |        |         |         | 40.0                 | 60.0           |       |       |       |
| Isopropylbenzene            | CBNZ<br>d5 | Ave        | 35184          | 68252          | 777006 | 1579567 | 2358068 | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |            |            | 3211115        | 4628312        |        |         |         | 40.0                 | 60.0           |       |       |       |
| Bromobenzene                | DCBd<br>4  | Ave        | 8811           | 16487          | 190924 | 382820  | 568725  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |            |            | 790070         | 1140045        |        |         |         | 40.0                 | 60.0           |       |       |       |
| 1,1,2,2-Tetrachloroethane   | DCBd<br>4  | Ave        | 10732          | 21955          | 232363 | 472558  | 703161  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |            |            | 976663         | 1439144        |        |         |         | 40.0                 | 60.0           |       |       |       |
| n-Propylbenzene             | DCBd<br>4  | Ave        | 9387           | 18421          | 212703 | 430540  | 649646  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |            |            | 886882         | 1283373        |        |         |         | 40.0                 | 60.0           |       |       |       |
| 1,2,3-Trichloropropane      | DCBd<br>4  | Ave        | 3580           | 8595           | 82695  | 168393  | 248407  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |            |            | 356473         | 512919         |        |         |         | 40.0                 | 60.0           |       |       |       |
| trans-1,4-Dichloro-2-butene | DCBd<br>4  | Ave        | 4437           | 8225           | 94471  | 190774  | 287631  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |            |            | 403349         | 588578         |        |         |         | 40.0                 | 60.0           |       |       |       |
| 2-Chlorotoluene             | DCBd<br>4  | Ave        | 7433           | 16036          | 180096 | 368014  | 548485  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |            |            | 755374         | 1093878        |        |         |         | 40.0                 | 60.0           |       |       |       |
| 1,3,5-Trimethylbenzene      | DCBd<br>4  | Ave        | 28350          | 54271          | 626869 | 1291110 | 1918016 | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |            |            | 2625880        | 3808192        |        |         |         | 40.0                 | 60.0           |       |       |       |
| 4-Chlorotoluene             | DCBd<br>4  | Ave        | 8664           | 17387          | 190540 | 388246  | 578014  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                     | IS REF    | CURVE TYPE | RESPONSE       |                |        |         |         | CONCENTRATION (UG/L) |                |       |       |       |
|-----------------------------|-----------|------------|----------------|----------------|--------|---------|---------|----------------------|----------------|-------|-------|-------|
|                             |           |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3  | LVL 4   | LVL 5   | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
|                             |           |            | 788830         | 1144661        |        |         |         | 40.0                 | 60.0           |       |       |       |
| tert-Butylbenzene           | DCBd<br>4 | Ave        | 24020          | 46654          | 528633 | 1079391 | 1620283 | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |           |            | 2197355        | 3191591        |        |         |         | 40.0                 | 60.0           |       |       |       |
| 1,2,4-Trimethylbenzene      | DCBd<br>4 | Ave        | 29328          | 57128          | 639942 | 1306381 | 1946890 | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |           |            | 2651696        | 3827938        |        |         |         | 40.0                 | 60.0           |       |       |       |
| sec-Butylbenzene            | DCBd<br>4 | Ave        | 6172           | 13553          | 157208 | 325535  | 487436  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |           |            | 664679         | 956911         |        |         |         | 40.0                 | 60.0           |       |       |       |
| p-Isopropyltoluene          | DCBd<br>4 | Ave        | 28420          | 56905          | 654549 | 1323924 | 1994860 | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |           |            | 2724972        | 3940697        |        |         |         | 40.0                 | 60.0           |       |       |       |
| 1,3-Dichlorobenzene         | DCBd<br>4 | Ave        | 15658          | 31950          | 355790 | 716005  | 1070460 | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |           |            | 1466987        | 2119382        |        |         |         | 40.0                 | 60.0           |       |       |       |
| 1,4-Dichlorobenzene         | DCBd<br>4 | Ave        | 16685          | 33275          | 355612 | 731353  | 1090464 | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |           |            | 1487619        | 2142486        |        |         |         | 40.0                 | 60.0           |       |       |       |
| n-Butylbenzene              | DCBd<br>4 | Ave        | 23978          | 48081          | 544973 | 1128562 | 1694908 | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |           |            | 2306832        | 3346737        |        |         |         | 40.0                 | 60.0           |       |       |       |
| 1,2-Dichlorobenzene         | DCBd<br>4 | Ave        | 15283          | 30281          | 333450 | 672476  | 998205  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |           |            | 1383213        | 1992668        |        |         |         | 40.0                 | 60.0           |       |       |       |
| 1,2-Dibromo-3-Chloropropane | DCBd<br>4 | Ave        | 3210           | 6585           | 72429  | 149681  | 225654  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |           |            | 324632         | 469149         |        |         |         | 40.0                 | 60.0           |       |       |       |
| 1,2,4-Trichlorobenzene      | DCBd<br>4 | Ave        | 9236           | 17300          | 192177 | 391164  | 601464  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |           |            | 823902         | 1190903        |        |         |         | 40.0                 | 60.0           |       |       |       |
| Hexachlorobutadiene         | DCBd<br>4 | Ave        | 3819           | 7450           | 82036  | 171699  | 256575  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                             |           |            | 346102         | 498407         |        |         |         | 40.0                 | 60.0           |       |       |       |
| Naphthalene                 | DCBd<br>4 | Ave        | 28682          | 56087          | 616710 | 1288655 | 1928425 | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

| ANALYTE                      | IS REF     | CURVE TYPE | RESPONSE       |                |        |         |         | CONCENTRATION (UG/L) |                |       |       |       |
|------------------------------|------------|------------|----------------|----------------|--------|---------|---------|----------------------|----------------|-------|-------|-------|
|                              |            |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3  | LVL 4   | LVL 5   | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
|                              |            |            | 2742239        | 3973030        |        |         |         | 40.0                 | 60.0           |       |       |       |
| 1,2,3-Trichlorobenzene       | DCBd<br>4  | Ave        | 8739           | 16392          | 182940 | 371774  | 564124  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                              |            |            | 781575         | 1129490        |        |         |         | 40.0                 | 60.0           |       |       |       |
| Dibromofluoromethane (Surr)  | FB         | Ave        | 6976           | 12602          | 137428 | 284463  | 428170  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                              |            |            | 591619         | 887621         |        |         |         | 40.0                 | 60.0           |       |       |       |
| 1,2-Dichloroethane-d4 (Surr) | FB         | Ave        | 8546           | 17125          | 177845 | 359993  | 543478  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                              |            |            | 752730         | 1113617        |        |         |         | 40.0                 | 60.0           |       |       |       |
| Toluene-d8 (Surr)            | CBNZ<br>d5 | Ave        | 29916          | 52958          | 582530 | 1212237 | 1786484 | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                              |            |            | 2456650        | 3609332        |        |         |         | 40.0                 | 60.0           |       |       |       |
| 4-Bromofluorobenzene (Surr)  | CBNZ<br>d5 | Ave        | 11989          | 20899          | 221071 | 463498  | 681895  | 0.500                | 1.00           | 10.0  | 20.0  | 30.0  |
|                              |            |            | 937200         | 1381473        |        |         |         | 40.0                 | 60.0           |       |       |       |

Curve Type Legend

Ave = Average ISTD  
Lin1 = Linear 1/conc ISTD

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 16:23 Calibration End Date: 03/21/2022 18:50 Calibration ID: 64948

Calibration Files

| LEVEL:  | LAB SAMPLE ID:        | LAB FILE ID: |
|---------|-----------------------|--------------|
| Level 1 | STD8260 240-520426/8  | UX000684.D   |
| Level 2 | STD8260 240-520426/9  | UX000685.D   |
| Level 3 | STD8260 240-520426/10 | UX000686.D   |
| Level 4 | ICIS 240-520426/11    | UX000687.D   |
| Level 5 | STD8260 240-520426/12 | UX000688.D   |
| Level 6 | STD8260 240-520426/13 | UX000689.D   |
| Level 7 | STD8260 240-520426/14 | UX000690.D   |

| ANALYTE | PERCENT ERROR |         |         |         |         |         | PERCENT ERROR LIMIT |       |       |       |       |       |
|---------|---------------|---------|---------|---------|---------|---------|---------------------|-------|-------|-------|-------|-------|
|         | LVL 1 #       | LVL 2 # | LVL 3 # | LVL 4 # | LVL 5 # | LVL 6 # | LVL 1               | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 6 |
| Acetone | 6.2           |         |         |         |         |         | 50                  |       |       |       |       |       |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 20:28 Calibration End Date: 03/21/2022 22:30 Calibration ID: 64952

Calibration Files

| LEVEL:  | LAB SAMPLE ID:      | LAB FILE ID: |
|---------|---------------------|--------------|
| Level 1 | STDA9 240-520426/18 | UX000694.D   |
| Level 2 | STDA9 240-520426/19 | UX000695.D   |
| Level 3 | STDA9 240-520426/20 | UX000696.D   |
| Level 4 | STDA9 240-520426/21 | UX000697.D   |
| Level 5 | STDA9 240-520426/22 | UX000698.D   |
| Level 6 | STDA9 240-520426/23 | UX000699.D   |

| ANALYTE                       | RRF              |        |        |        |        | CURVE TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | #    | MAX %RSD | R <sup>2</sup> OR COD | # | MIN R <sup>2</sup> OR COD |
|-------------------------------|------------------|--------|--------|--------|--------|------------|-------------|------------|----|---|---------|------|------|----------|-----------------------|---|---------------------------|
|                               | LVL 1<br>LVL 6   | LVL 2  | LVL 3  | LVL 4  | LVL 5  |            | B           | M1         | M2 |   |         |      |      |          |                       |   |                           |
| Acetonitrile                  | 0.0735<br>0.0532 | 0.0662 | 0.0540 | 0.0532 | 0.0542 | Ave        |             | 0.059<br>0 |    |   | 14.7    |      | 20.0 |          |                       |   |                           |
| Diisopropyl ether             | 0.1929<br>0.2231 | 0.2199 | 0.2237 | 0.2278 | 0.2360 | Ave        |             | 0.220<br>6 |    |   | 6.6     |      | 20.0 |          |                       |   |                           |
| 2-Chloro-1,3-butadiene        | 0.3900<br>0.4210 | 0.3886 | 0.4274 | 0.4218 | 0.4244 | Ave        |             | 0.412<br>2 |    |   | 4.3     |      | 20.0 |          |                       |   |                           |
| Ethyl-t-butyl ether (ETBE)    | 0.7484<br>0.7981 | 0.7383 | 0.7861 | 0.7877 | 0.8077 | Ave        |             | 0.777<br>7 |    |   | 3.6     |      | 20.0 |          |                       |   |                           |
| Ethyl acetate                 | 0.4067<br>0.3841 | 0.3827 | 0.3837 | 0.3817 | 0.3946 | Ave        |             | 0.388<br>9 |    |   | 2.5     |      | 20.0 |          |                       |   |                           |
| Propionitrile                 | 0.0652<br>0.0659 | 0.0665 | 0.0653 | 0.0653 | 0.0673 | Ave        |             | 0.065<br>9 |    |   | 1.3     |      | 20.0 |          |                       |   |                           |
| Methacrylonitrile             | 0.2241<br>0.2271 | 0.2287 | 0.2331 | 0.2278 | 0.2334 | Ave        |             | 0.229<br>1 |    |   | 1.6     |      | 20.0 |          |                       |   |                           |
| Isooctane                     | 0.5318<br>0.5870 | 0.5367 | 0.5640 | 0.5812 | 0.5970 | Ave        |             | 0.566<br>3 |    |   | 4.8     |      | 20.0 |          |                       |   |                           |
| Tert-amyl-methyl ether (TAME) | 0.7368<br>0.8208 | 0.7601 | 0.7941 | 0.8021 | 0.8447 | Ave        |             | 0.793<br>1 |    |   | 5.0     |      | 20.0 |          |                       |   |                           |
| n-Butanol                     | 0.0150<br>0.0160 | 0.0139 | 0.0139 | 0.0151 | 0.0166 | Ave        |             | 0.015<br>1 |    |   | 7.1     |      | 20.0 |          |                       |   |                           |
| Ethyl acrylate                | 0.4458<br>0.4799 | 0.4515 | 0.4563 | 0.4661 | 0.4896 | Ave        |             | 0.464<br>9 |    |   | 3.7     |      | 20.0 |          |                       |   |                           |
| Methyl methacrylate           | 0.2854<br>0.3076 | 0.2842 | 0.3035 | 0.3013 | 0.3150 | Ave        |             | 0.299<br>5 |    |   | 4.1     |      | 20.0 |          |                       |   |                           |
| 2-Nitropropane                | 0.1359<br>0.1262 | 0.1249 | 0.1267 | 0.1235 | 0.1282 | Ave        |             | 0.127<br>6 |    |   | 3.5     |      | 20.0 |          |                       |   |                           |
| n-Butyl acetate               | 0.7459<br>0.7073 | 0.6879 | 0.7087 | 0.6942 | 0.7243 | Ave        |             | 0.711<br>4 |    |   | 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: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 20:28 Calibration End Date: 03/21/2022 22:30 Calibration ID: 64952

| ANALYTE                | RRF              |        |        |        |        | CURVE TYPE | COEFFICIENT |            |    | # | MIN RRF | %RSD | #    | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|------------------------|------------------|--------|--------|--------|--------|------------|-------------|------------|----|---|---------|------|------|----------|------------|---|----------------|
|                        | LVL 1<br>LVL 6   | LVL 2  | LVL 3  | LVL 4  | LVL 5  |            | B           | M1         | M2 |   |         |      |      |          |            |   |                |
| 1-Chlorohexane         | 0.5252<br>0.4886 | 0.4597 | 0.4782 | 0.4793 | 0.4849 | Ave        |             | 0.486<br>0 |    |   | 4.5     |      | 20.0 |          |            |   |                |
| Cyclohexanone          | 0.0445<br>0.0468 | 0.0450 | 0.0429 | 0.0456 | 0.0492 | Ave        |             | 0.045<br>7 |    |   | 4.7     |      | 20.0 |          |            |   |                |
| Pentachloroethane      | 0.0418<br>0.0423 | 0.0473 | 0.0590 | 0.0412 | 0.0429 | Ave        |             | 0.045<br>7 |    |   | 15.0    |      | 20.0 |          |            |   |                |
| 1,2,3-Trimethylbenzene | 2.3997<br>2.7453 | 2.4563 | 2.6909 | 2.6926 | 2.7412 | Ave        |             | 2.621<br>0 |    |   | 5.8     |      | 20.0 |          |            |   |                |
| Benzyl chloride        | 0.3560<br>0.4075 | 0.3381 | 0.3757 | 0.3851 | 0.4103 | Ave        |             | 0.378<br>8 |    |   | 7.5     |      | 20.0 |          |            |   |                |
| 1,3,5-Trichlorobenzene | 0.7436<br>0.9398 | 0.7506 | 0.9044 | 0.8985 | 0.9321 | Ave        |             | 0.861<br>5 |    |   | 10.4    |      | 20.0 |          |            |   |                |
| 2-Methylnaphthalene    | 0.9814<br>1.0632 | 0.9732 | 1.0048 | 0.9930 | 1.0353 | Ave        |             | 1.008<br>5 |    |   | 3.4     |      | 20.0 |          |            |   |                |
| 1-Methylnaphthalene    | 0.8977<br>1.0330 | 0.9235 | 0.9761 | 0.9810 | 1.0181 | Ave        |             | 0.971<br>6 |    |   | 5.4     |      | 20.0 |          |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 20:28 Calibration End Date: 03/21/2022 22:30 Calibration ID: 64952

Calibration Files

| LEVEL:  | LAB SAMPLE ID:      | LAB FILE ID: |
|---------|---------------------|--------------|
| Level 1 | STDA9 240-520426/18 | UX000694.D   |
| Level 2 | STDA9 240-520426/19 | UX000695.D   |
| Level 3 | STDA9 240-520426/20 | UX000696.D   |
| Level 4 | STDA9 240-520426/21 | UX000697.D   |
| Level 5 | STDA9 240-520426/22 | UX000698.D   |
| Level 6 | STDA9 240-520426/23 | UX000699.D   |

| ANALYTE                       | IS REF | CURVE TYPE | RESPONSE         |        |         |         |         | CONCENTRATION (UG/L) |       |       |       |       |
|-------------------------------|--------|------------|------------------|--------|---------|---------|---------|----------------------|-------|-------|-------|-------|
|                               |        |            | LVL 1<br>LVL 6   | LVL 2  | LVL 3   | LVL 4   | LVL 5   | LVL 1<br>LVL 6       | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| Acetonitrile                  | FB     | Ave        | 21416<br>1989092 | 39198  | 321368  | 649670  | 1360239 | 5.00<br>600          | 10.0  | 100   | 200   | 400   |
| Diisopropyl ether             | FB     | Ave        | 5619<br>834514   | 13032  | 133055  | 278038  | 592619  | 0.500<br>60.0        | 1.00  | 10.0  | 20.0  | 40.0  |
| 2-Chloro-1,3-butadiene        | FB     | Ave        | 11358<br>1575007 | 23024  | 254212  | 514915  | 1065484 | 0.500<br>60.0        | 1.00  | 10.0  | 20.0  | 40.0  |
| Ethyl-t-butyl ether (ETBE)    | FB     | Ave        | 21797<br>2985541 | 43749  | 467549  | 961672  | 2028048 | 0.500<br>60.0        | 1.00  | 10.0  | 20.0  | 40.0  |
| Ethyl acetate                 | FB     | Ave        | 23690<br>2873485 | 45356  | 456390  | 931854  | 1981625 | 1.00<br>120          | 2.00  | 20.0  | 40.0  | 80.0  |
| Propionitrile                 | FB     | Ave        | 18993<br>2464009 | 39392  | 388338  | 797440  | 1690251 | 5.00<br>600          | 10.0  | 100   | 200   | 400   |
| Methacrylonitrile             | FB     | Ave        | 65282<br>8496346 | 135520 | 1386349 | 2781538 | 5860285 | 5.00<br>600          | 10.0  | 100   | 200   | 400   |
| Isooctane                     | FB     | Ave        | 15489<br>2195628 | 31802  | 335452  | 709479  | 1498855 | 0.500<br>60.0        | 1.00  | 10.0  | 20.0  | 40.0  |
| Tert-amyl-methyl ether (TAME) | FB     | Ave        | 21458<br>3070464 | 45041  | 472312  | 979262  | 2120922 | 0.500<br>60.0        | 1.00  | 10.0  | 20.0  | 40.0  |
| n-Butanol                     | FB     | Ave        | 10907<br>1496250 | 20584  | 206928  | 461125  | 1039101 | 12.5<br>1500         | 25.0  | 250   | 500   | 1000  |
| Ethyl acrylate                | FB     | Ave        | 12985<br>1795205 | 26755  | 271396  | 568984  | 1229205 | 0.500<br>60.0        | 1.00  | 10.0  | 20.0  | 40.0  |
| Methyl methacrylate           | FB     | Ave        | 16623<br>2301063 | 33682  | 361004  | 735577  | 1581943 | 1.00<br>120          | 2.00  | 20.0  | 40.0  | 80.0  |
| 2-Nitropropane                | FB     | Ave        | 7919<br>944175   | 14799  | 150769  | 301492  | 643638  | 1.00<br>120          | 2.00  | 20.0  | 40.0  | 80.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Canton Job No.: 240-163634-1 Analy Batch No.: 520426

SDG No.: MSA Frog Mortar Creek

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

Calibration Start Date: 03/21/2022 20:28 Calibration End Date: 03/21/2022 22:30 Calibration ID: 64952

| ANALYTE                | IS REF     | CURVE TYPE | RESPONSE         |       |        |         |         | CONCENTRATION (UG/L) |       |       |       |       |
|------------------------|------------|------------|------------------|-------|--------|---------|---------|----------------------|-------|-------|-------|-------|
|                        |            |            | LVL 1<br>LVL 6   | LVL 2 | LVL 3  | LVL 4   | LVL 5   | LVL 1<br>LVL 6       | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| n-Butyl acetate        | CBNZ<br>d5 | Ave        | 16762<br>2010336 | 31262 | 322426 | 649604  | 1383315 | 0.500<br>60.0        | 1.00  | 10.0  | 20.0  | 40.0  |
| 1-Chlorohexane         | CBNZ<br>d5 | Ave        | 11803<br>1388708 | 20894 | 217540 | 448533  | 925973  | 0.500<br>60.0        | 1.00  | 10.0  | 20.0  | 40.0  |
| Cyclohexanone          | DCBd<br>4  | Ave        | 5223<br>678853   | 10790 | 100273 | 216538  | 476038  | 5.00<br>600          | 10.0  | 100   | 200   | 400   |
| Pentachloroethane      | DCBd<br>4  | Ave        | 982<br>122525    | 2265  | 27548  | 39133   | 82939   | 1.00<br>120          | 2.00  | 20.0  | 40.0  | 80.0  |
| 1,2,3-Trimethylbenzene | DCBd<br>4  | Ave        | 28196<br>3978466 | 58840 | 628327 | 1279539 | 2652255 | 0.500<br>60.0        | 1.00  | 10.0  | 20.0  | 40.0  |
| Benzyl chloride        | DCBd<br>4  | Ave        | 4183<br>590482   | 8098  | 87719  | 182989  | 396936  | 0.500<br>60.0        | 1.00  | 10.0  | 20.0  | 40.0  |
| 1,3,5-Trichlorobenzene | DCBd<br>4  | Ave        | 8737<br>1361918  | 17981 | 211178 | 426964  | 901849  | 0.500<br>60.0        | 1.00  | 10.0  | 20.0  | 40.0  |
| 2-Methylnaphthalene    | DCBd<br>4  | Ave        | 23062<br>3081552 | 46624 | 469218 | 943769  | 2003301 | 1.00<br>120          | 2.00  | 20.0  | 40.0  | 80.0  |
| 1-Methylnaphthalene    | DCBd<br>4  | Ave        | 21096<br>2994014 | 44244 | 455816 | 932309  | 1970133 | 1.00<br>120          | 2.00  | 20.0  | 40.0  | 80.0  |

Curve Type Legend

Ave = Average ISTD



Calibration

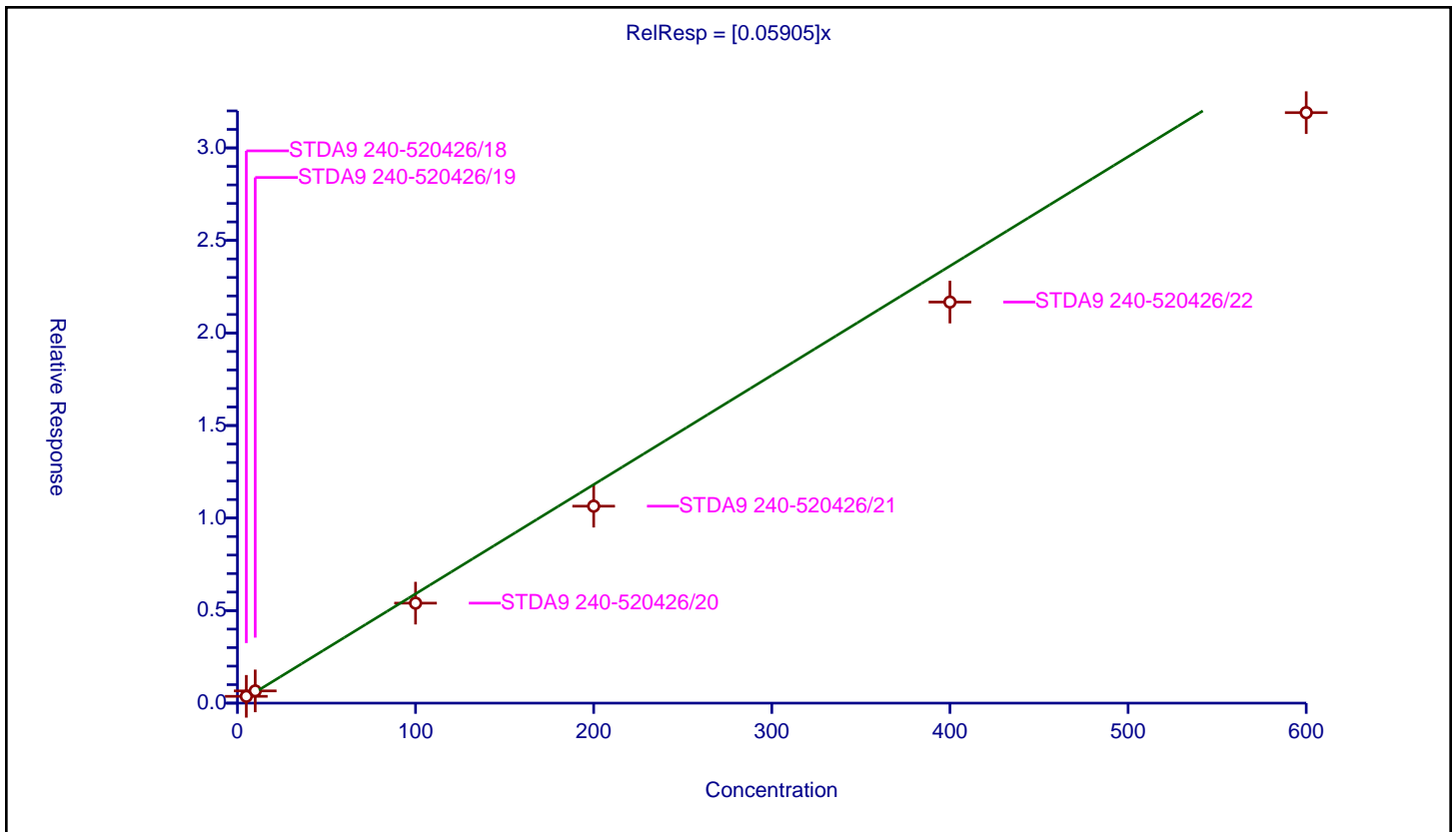
/ Acetonitrile

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |         |
|--------------------|---------|
| Intercept:         | 0       |
| Slope:             | 0.05905 |

| Error Coefficients                       |         |
|--|---------|
| Standard Error:                          | 1130000 |
| Relative Standard Error:                 | 14.7    |
| Correlation Coefficient:                 | 1.000   |
| Coefficient of Determination (Adjusted): | 0.967   |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 5.0           | 0.367655   | 20.0      | 1165004.0   | 0.073531 | Y    |
| 2  | STDA9 240-520426/19 | 10.0          | 0.661507   | 20.0      | 1185113.0   | 0.066151 | Y    |
| 3  | STDA9 240-520426/20 | 100.0         | 5.403236   | 20.0      | 1189539.0   | 0.054032 | Y    |
| 4  | STDA9 240-520426/21 | 200.0         | 10.643375  | 20.0      | 1220797.0   | 0.053217 | Y    |
| 5  | STDA9 240-520426/22 | 400.0         | 21.669846  | 20.0      | 1255421.0   | 0.054175 | Y    |
| 6  | STDA9 240-520426/23 | 600.0         | 31.904647  | 20.0      | 1246898.0   | 0.053174 | Y    |



**Calibration**

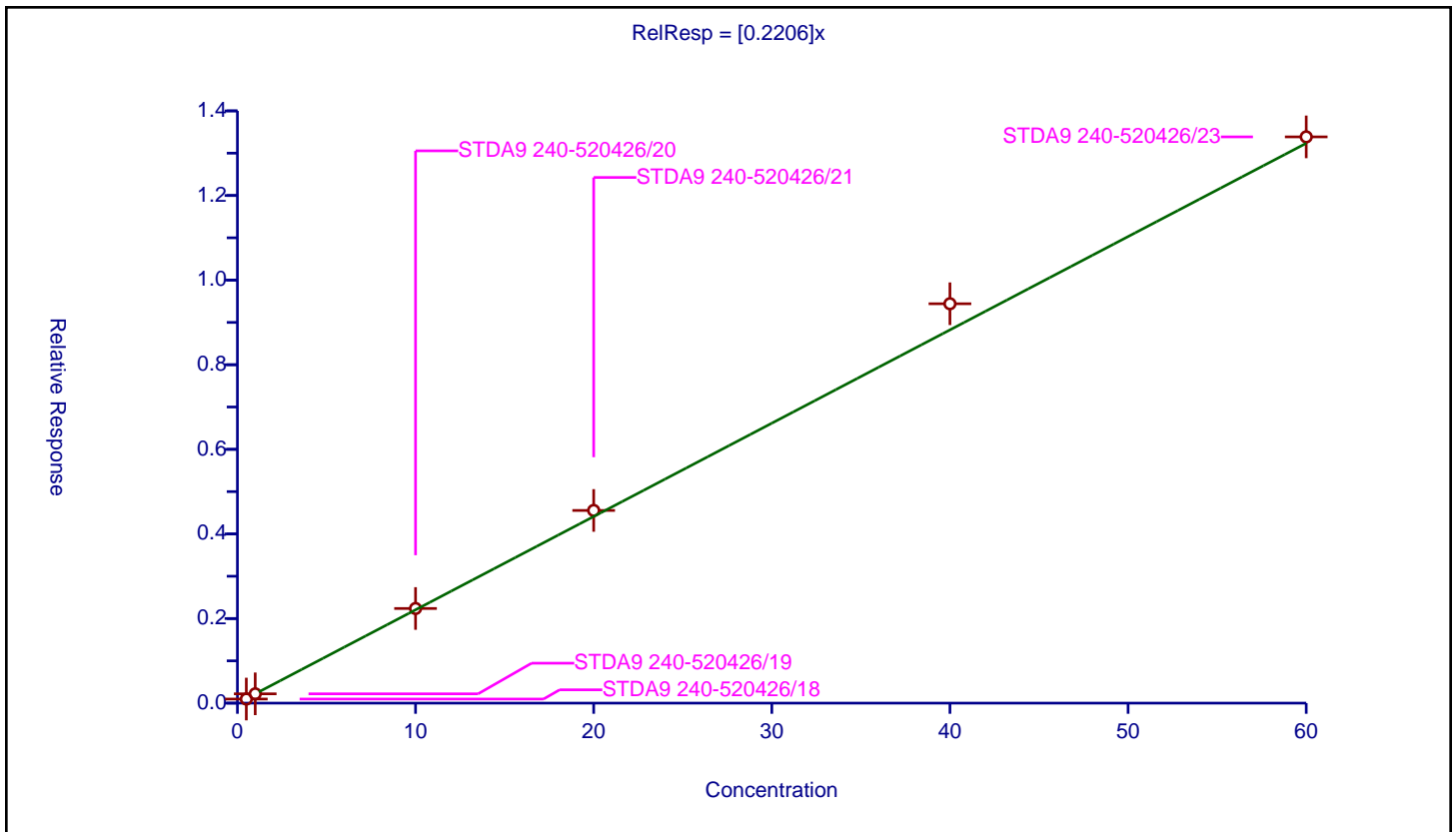
/ Isopropyl ether

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |        |
|--------------------|--------|
| Intercept:         | 0      |
| Slope:             | 0.2206 |

| Error Coefficients                       |        |
|--|--------|
| Standard Error:                          | 478000 |
| Relative Standard Error:                 | 6.6    |
| Correlation Coefficient:                 | 0.998  |
| Coefficient of Determination (Adjusted): | 0.995  |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 0.5           | 0.096463   | 20.0      | 1165004.0   | 0.192926 | Y    |
| 2  | STDA9 240-520426/19 | 1.0           | 0.219928   | 20.0      | 1185113.0   | 0.219928 | Y    |
| 3  | STDA9 240-520426/20 | 10.0          | 2.237085   | 20.0      | 1189539.0   | 0.223709 | Y    |
| 4  | STDA9 240-520426/21 | 20.0          | 4.555024   | 20.0      | 1220797.0   | 0.227751 | Y    |
| 5  | STDA9 240-520426/22 | 40.0          | 9.44096    | 20.0      | 1255421.0   | 0.236024 | Y    |
| 6  | STDA9 240-520426/23 | 60.0          | 13.385441  | 20.0      | 1246898.0   | 0.223091 | Y    |



Calibration

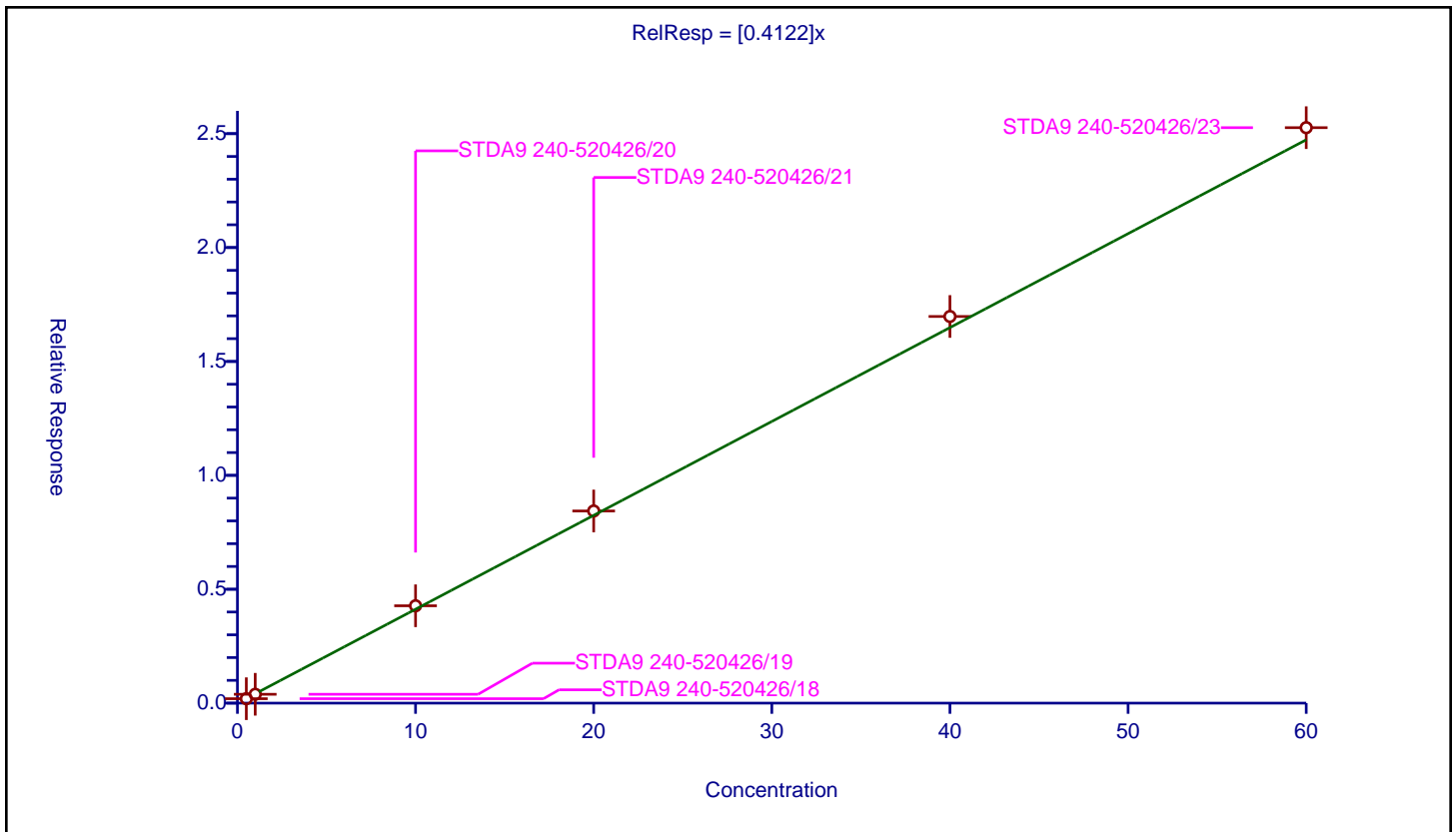
/ 2-Chloro-1,3-butadiene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |        |
|--------------------|--------|
| Intercept:         | 0      |
| Slope:             | 0.4122 |

| Error Coefficients                       |        |
|--|--------|
| Standard Error:                          | 888000 |
| Relative Standard Error:                 | 4.3    |
| Correlation Coefficient:                 | 1.000  |
| Coefficient of Determination (Adjusted): | 0.998  |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 0.5           | 0.194986   | 20.0      | 1165004.0   | 0.389973 | Y    |
| 2  | STDA9 240-520426/19 | 1.0           | 0.388554   | 20.0      | 1185113.0   | 0.388554 | Y    |
| 3  | STDA9 240-520426/20 | 10.0          | 4.274126   | 20.0      | 1189539.0   | 0.427413 | Y    |
| 4  | STDA9 240-520426/21 | 20.0          | 8.435719   | 20.0      | 1220797.0   | 0.421786 | Y    |
| 5  | STDA9 240-520426/22 | 40.0          | 16.974131  | 20.0      | 1255421.0   | 0.424353 | Y    |
| 6  | STDA9 240-520426/23 | 60.0          | 25.262804  | 20.0      | 1246898.0   | 0.421047 | Y    |



**Calibration**

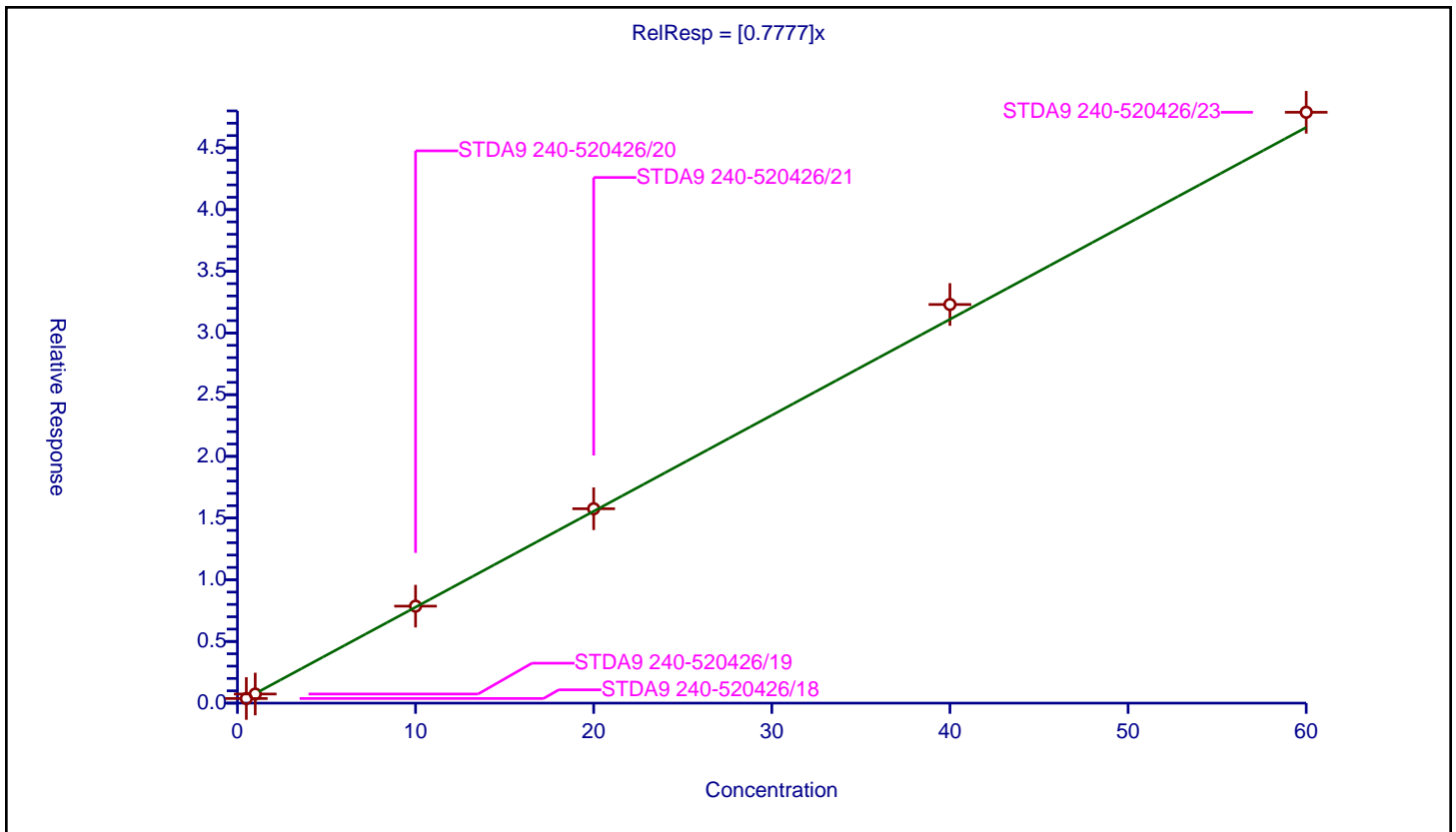
/ Tert-butyl ethyl ether

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |        |
|--------------------|--------|
| Intercept:         | 0      |
| Slope:             | 0.7777 |

| Error Coefficients                       |         |
|--|---------|
| Standard Error:                          | 1680000 |
| Relative Standard Error:                 | 3.6     |
| Correlation Coefficient:                 | 1.000   |
| Coefficient of Determination (Adjusted): | 0.998   |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 0.5           | 0.374196   | 20.0      | 1165004.0   | 0.748392 | Y    |
| 2  | STDA9 240-520426/19 | 1.0           | 0.738309   | 20.0      | 1185113.0   | 0.738309 | Y    |
| 3  | STDA9 240-520426/20 | 10.0          | 7.861012   | 20.0      | 1189539.0   | 0.786101 | Y    |
| 4  | STDA9 240-520426/21 | 20.0          | 15.754822  | 20.0      | 1220797.0   | 0.787741 | Y    |
| 5  | STDA9 240-520426/22 | 40.0          | 32.308652  | 20.0      | 1255421.0   | 0.807716 | Y    |
| 6  | STDA9 240-520426/23 | 60.0          | 47.887494  | 20.0      | 1246898.0   | 0.798125 | Y    |



Calibration

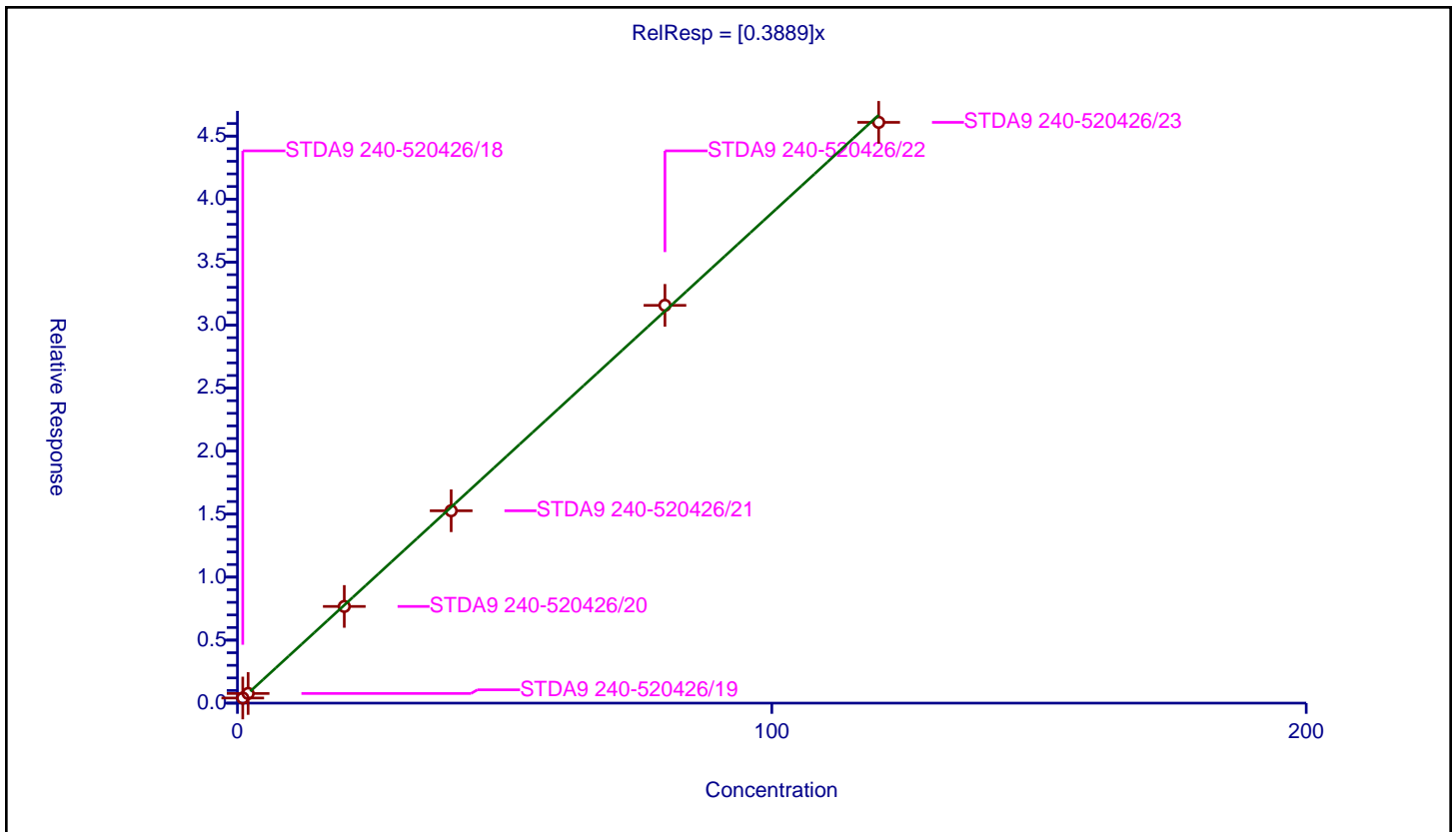
/ Ethyl acetate

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |        |
|--------------------|--------|
| Intercept:         | 0      |
| Slope:             | 0.3889 |

| Error Coefficients                       |         |
|--|---------|
| Standard Error:                          | 1630000 |
| Relative Standard Error:                 | 2.5     |
| Correlation Coefficient:                 | 0.999   |
| Coefficient of Determination (Adjusted): | 0.999   |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 1.0           | 0.406694   | 20.0      | 1165004.0   | 0.406694 | Y    |
| 2  | STDA9 240-520426/19 | 2.0           | 0.765429   | 20.0      | 1185113.0   | 0.382715 | Y    |
| 3  | STDA9 240-520426/20 | 20.0          | 7.673393   | 20.0      | 1189539.0   | 0.38367  | Y    |
| 4  | STDA9 240-520426/21 | 40.0          | 15.266322  | 20.0      | 1220797.0   | 0.381658 | Y    |
| 5  | STDA9 240-520426/22 | 80.0          | 31.569091  | 20.0      | 1255421.0   | 0.394614 | Y    |
| 6  | STDA9 240-520426/23 | 120.0         | 46.090137  | 20.0      | 1246898.0   | 0.384084 | Y    |



Calibration

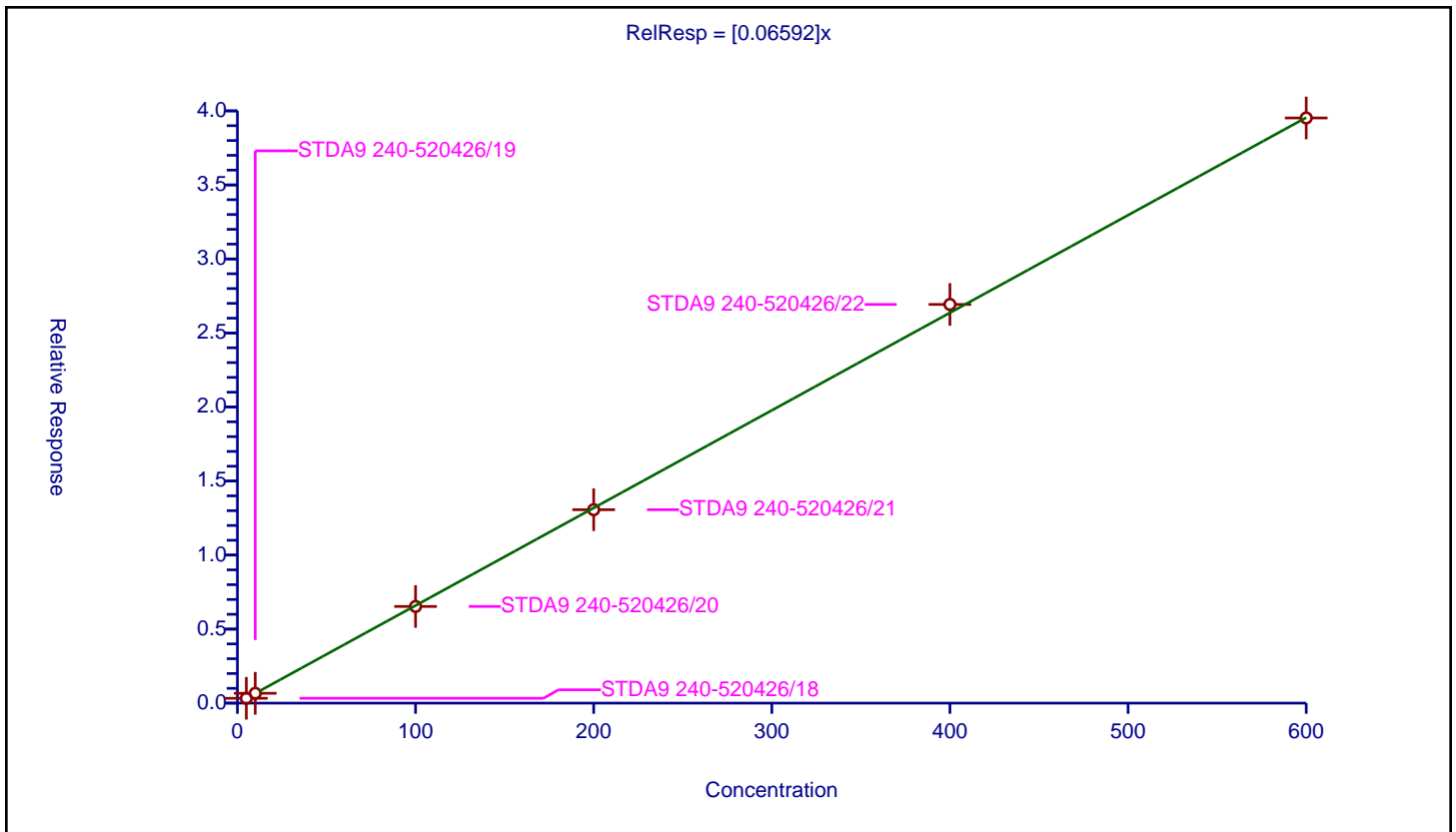
/ Propionitrile

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |         |
|--------------------|---------|
| Intercept:         | 0       |
| Slope:             | 0.06592 |

| Error Coefficients                       |         |
|--|---------|
| Standard Error:                          | 1390000 |
| Relative Standard Error:                 | 1.3     |
| Correlation Coefficient:                 | 0.999   |
| Coefficient of Determination (Adjusted): | 1.000   |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 5.0           | 0.326059   | 20.0      | 1165004.0   | 0.065212 | Y    |
| 2  | STDA9 240-520426/19 | 10.0          | 0.66478    | 20.0      | 1185113.0   | 0.066478 | Y    |
| 3  | STDA9 240-520426/20 | 100.0         | 6.529218   | 20.0      | 1189539.0   | 0.065292 | Y    |
| 4  | STDA9 240-520426/21 | 200.0         | 13.064252  | 20.0      | 1220797.0   | 0.065321 | Y    |
| 5  | STDA9 240-520426/22 | 400.0         | 26.927238  | 20.0      | 1255421.0   | 0.067318 | Y    |
| 6  | STDA9 240-520426/23 | 600.0         | 39.522222  | 20.0      | 1246898.0   | 0.06587  | Y    |



**Calibration**

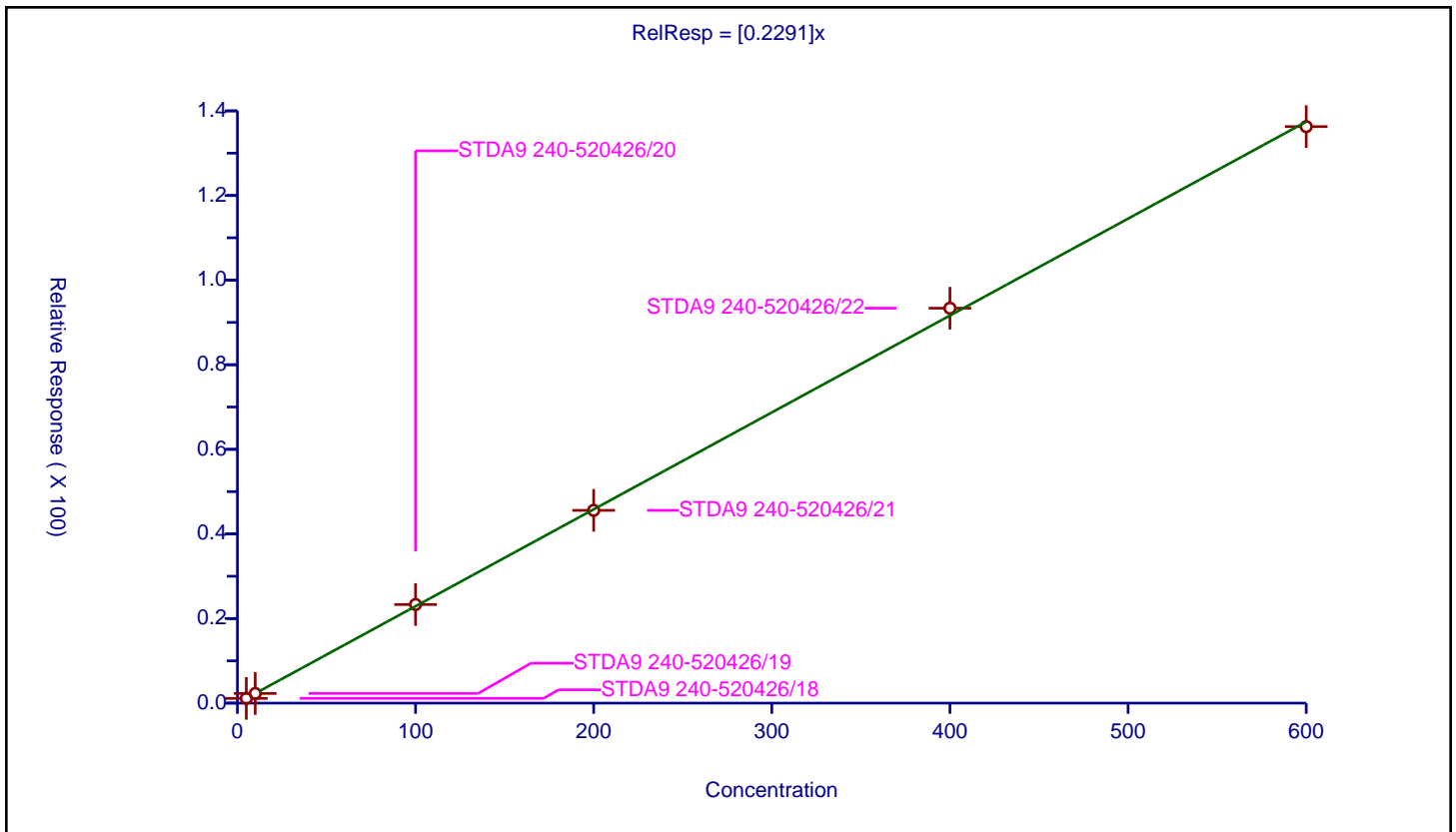
**/ Methacrylonitrile**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |        |
|--------------------|--------|
| Intercept:         | 0      |
| Slope:             | 0.2291 |

| Error Coefficients                       |         |
|--|---------|
| Standard Error:                          | 4820000 |
| Relative Standard Error:                 | 1.6     |
| Correlation Coefficient:                 | 0.999   |
| Coefficient of Determination (Adjusted): | 1.000   |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 5.0           | 1.120717   | 20.0      | 1165004.0   | 0.224143 | Y    |
| 2  | STDA9 240-520426/19 | 10.0          | 2.287039   | 20.0      | 1185113.0   | 0.228704 | Y    |
| 3  | STDA9 240-520426/20 | 100.0         | 23.309013  | 20.0      | 1189539.0   | 0.23309  | Y    |
| 4  | STDA9 240-520426/21 | 200.0         | 45.569214  | 20.0      | 1220797.0   | 0.227846 | Y    |
| 5  | STDA9 240-520426/22 | 400.0         | 93.359678  | 20.0      | 1255421.0   | 0.233399 | Y    |
| 6  | STDA9 240-520426/23 | 600.0         | 136.279728 | 20.0      | 1246898.0   | 0.227133 | Y    |



Calibration

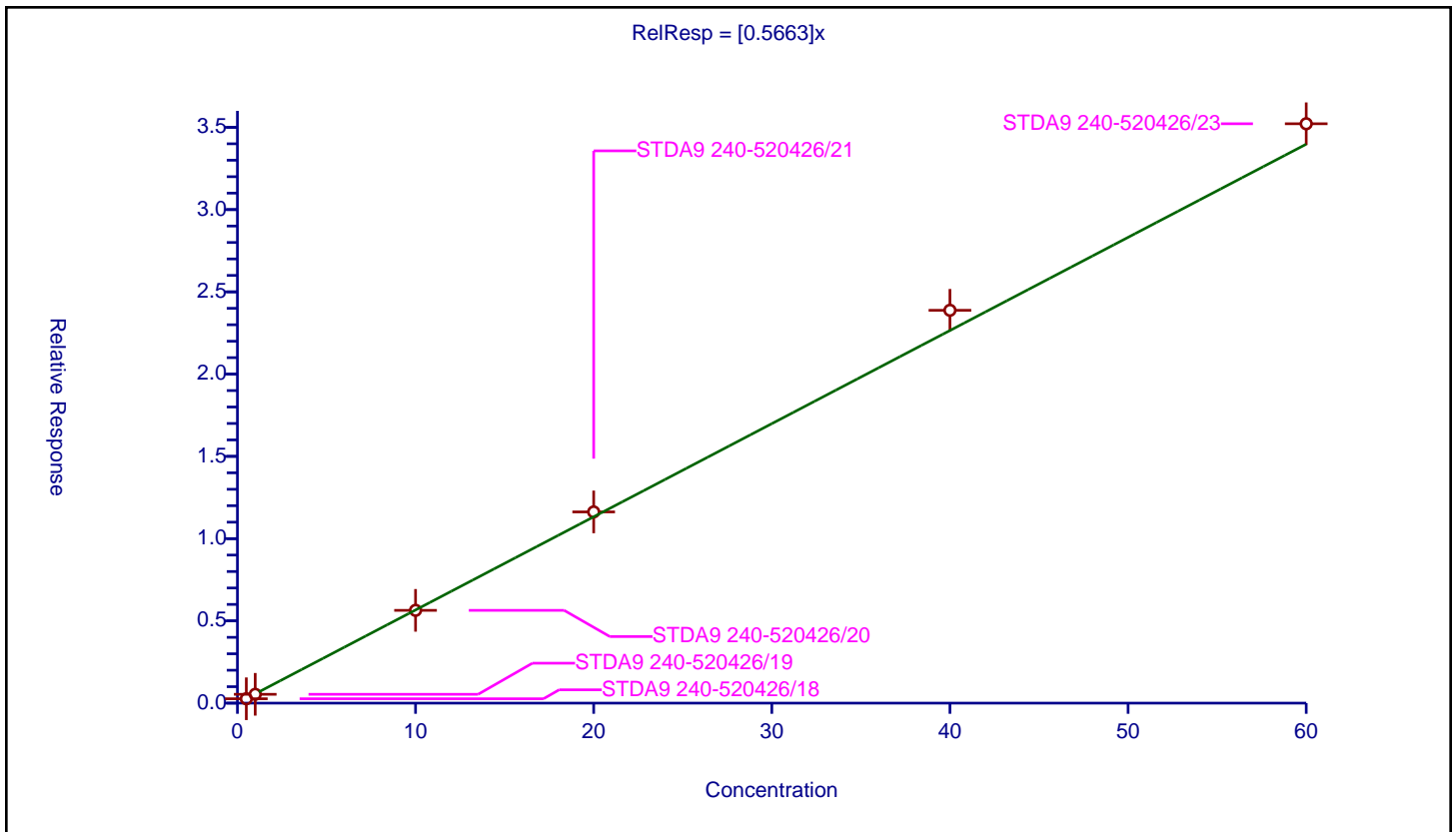
/ Isooctane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |        |
|--------------------|--------|
| Intercept:         | 0      |
| Slope:             | 0.5663 |

| Error Coefficients                       |         |
|--|---------|
| Standard Error:                          | 1240000 |
| Relative Standard Error:                 | 4.8     |
| Correlation Coefficient:                 | 0.999   |
| Coefficient of Determination (Adjusted): | 0.997   |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 0.5           | 0.265905   | 20.0      | 1165004.0   | 0.531809 | Y    |
| 2  | STDA9 240-520426/19 | 1.0           | 0.536691   | 20.0      | 1185113.0   | 0.536691 | Y    |
| 3  | STDA9 240-520426/20 | 10.0          | 5.640034   | 20.0      | 1189539.0   | 0.564003 | Y    |
| 4  | STDA9 240-520426/21 | 20.0          | 11.62321   | 20.0      | 1220797.0   | 0.581161 | Y    |
| 5  | STDA9 240-520426/22 | 40.0          | 23.878125  | 20.0      | 1255421.0   | 0.596953 | Y    |
| 6  | STDA9 240-520426/23 | 60.0          | 35.217444  | 20.0      | 1246898.0   | 0.586957 | Y    |





**Calibration**

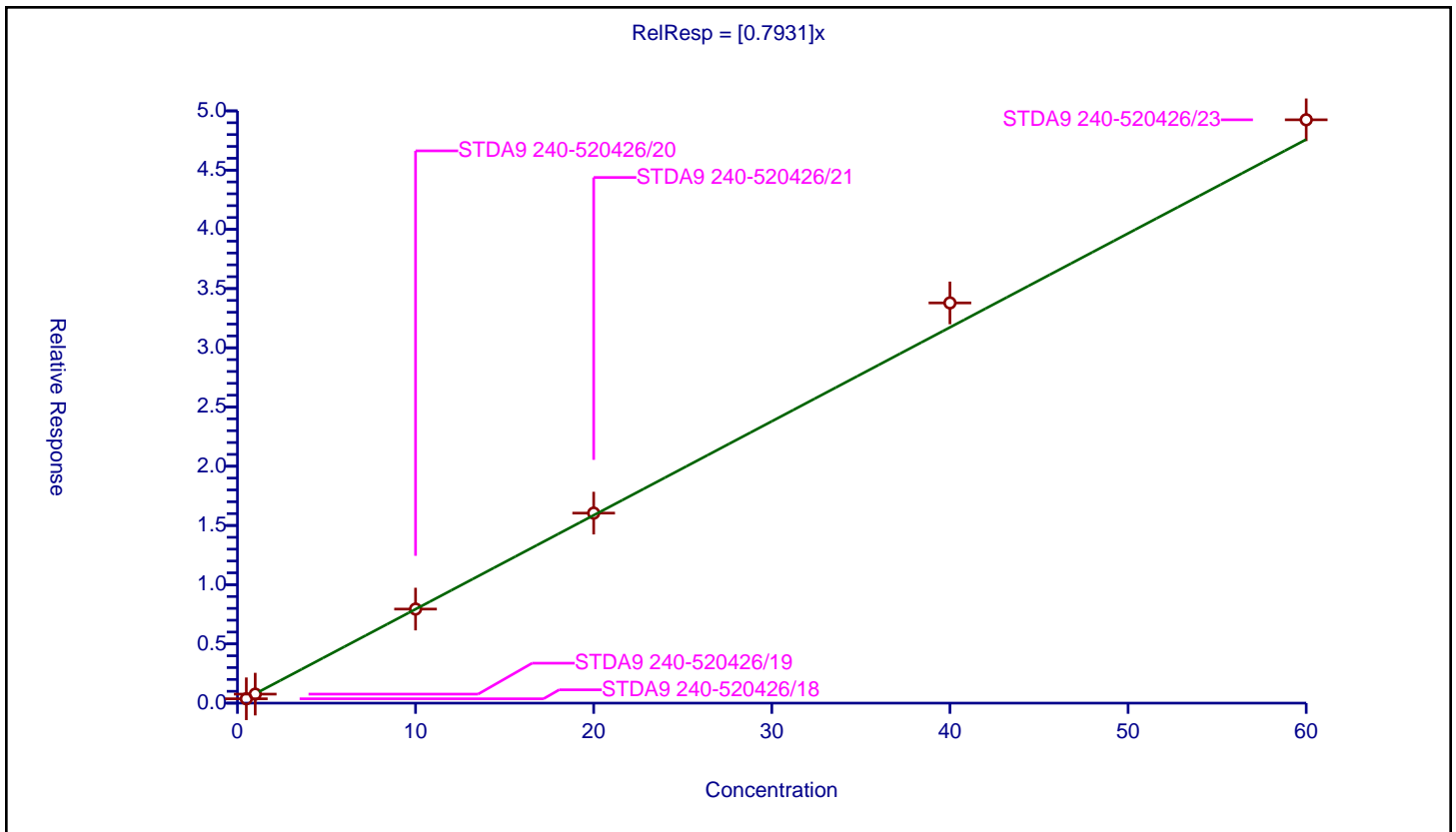
/ Tert-amyl methyl ether

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |        |
|--------------------|--------|
| Intercept:         | 0      |
| Slope:             | 0.7931 |

| Error Coefficients                       |         |
|--|---------|
| Standard Error:                          | 1740000 |
| Relative Standard Error:                 | 5.0     |
| Correlation Coefficient:                 | 0.999   |
| Coefficient of Determination (Adjusted): | 0.997   |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 0.5           | 0.368376   | 20.0      | 1165004.0   | 0.736753 | Y    |
| 2  | STDA9 240-520426/19 | 1.0           | 0.760113   | 20.0      | 1185113.0   | 0.760113 | Y    |
| 3  | STDA9 240-520426/20 | 10.0          | 7.941093   | 20.0      | 1189539.0   | 0.794109 | Y    |
| 4  | STDA9 240-520426/21 | 20.0          | 16.042995  | 20.0      | 1220797.0   | 0.80215  | Y    |
| 5  | STDA9 240-520426/22 | 40.0          | 33.788219  | 20.0      | 1255421.0   | 0.844705 | Y    |
| 6  | STDA9 240-520426/23 | 60.0          | 49.249642  | 20.0      | 1246898.0   | 0.820827 | Y    |



Calibration

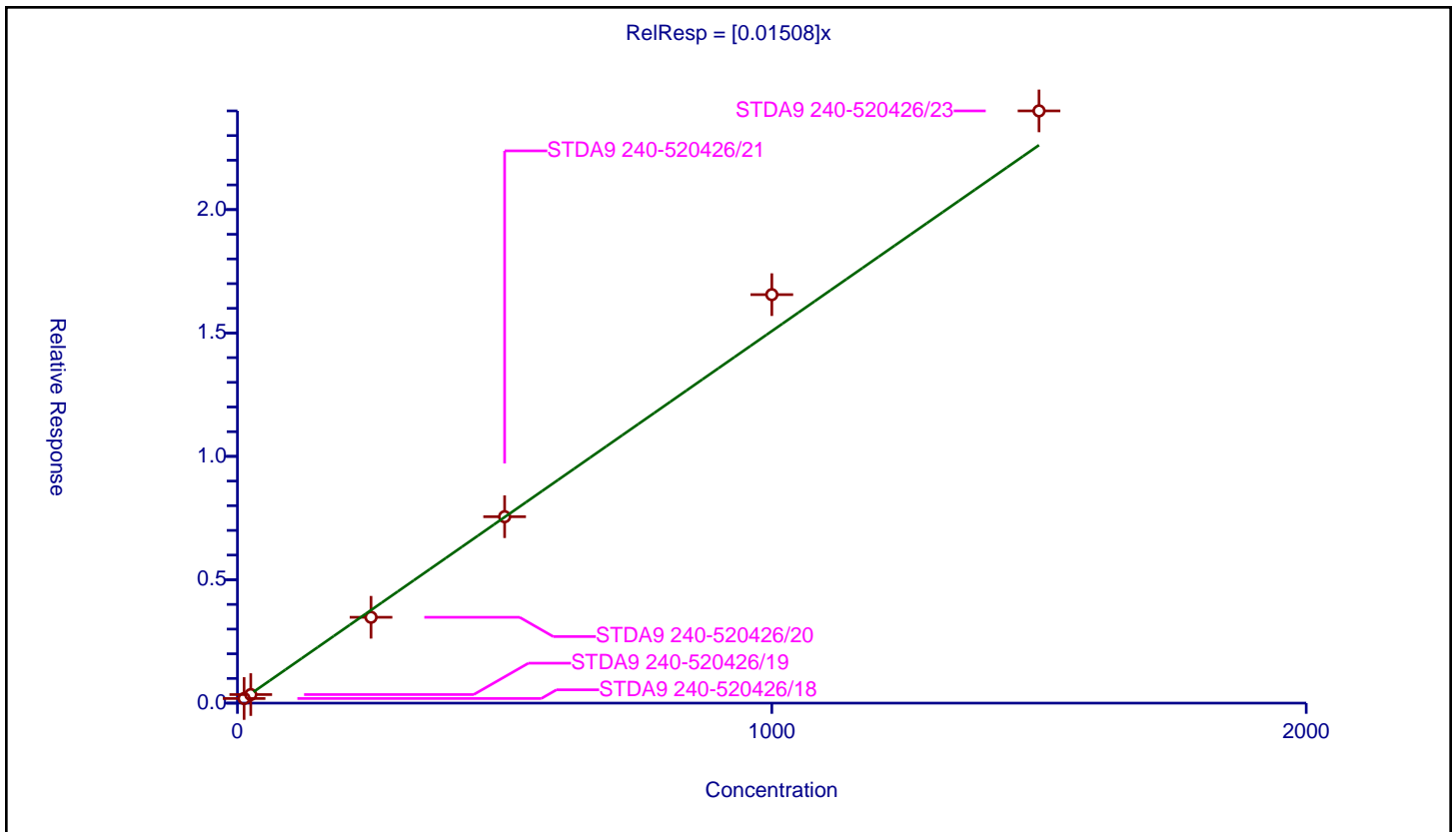
/ n-Butanol

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |         |
|--------------------|---------|
| Intercept:         | 0       |
| Slope:             | 0.01508 |

| Error Coefficients                       |        |
|--|--------|
| Standard Error:                          | 846000 |
| Relative Standard Error:                 | 7.1    |
| Correlation Coefficient:                 | 0.998  |
| Coefficient of Determination (Adjusted): | 0.994  |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 12.5          | 0.187244   | 20.0      | 1165004.0   | 0.01498  | Y    |
| 2  | STDA9 240-520426/19 | 25.0          | 0.347376   | 20.0      | 1185113.0   | 0.013895 | Y    |
| 3  | STDA9 240-520426/20 | 250.0         | 3.479129   | 20.0      | 1189539.0   | 0.013917 | Y    |
| 4  | STDA9 240-520426/21 | 500.0         | 7.554491   | 20.0      | 1220797.0   | 0.015109 | Y    |
| 5  | STDA9 240-520426/22 | 1000.0        | 16.553825  | 20.0      | 1255421.0   | 0.016554 | Y    |
| 6  | STDA9 240-520426/23 | 1500.0        | 23.999557  | 20.0      | 1246898.0   | 0.016    | Y    |



**Calibration**

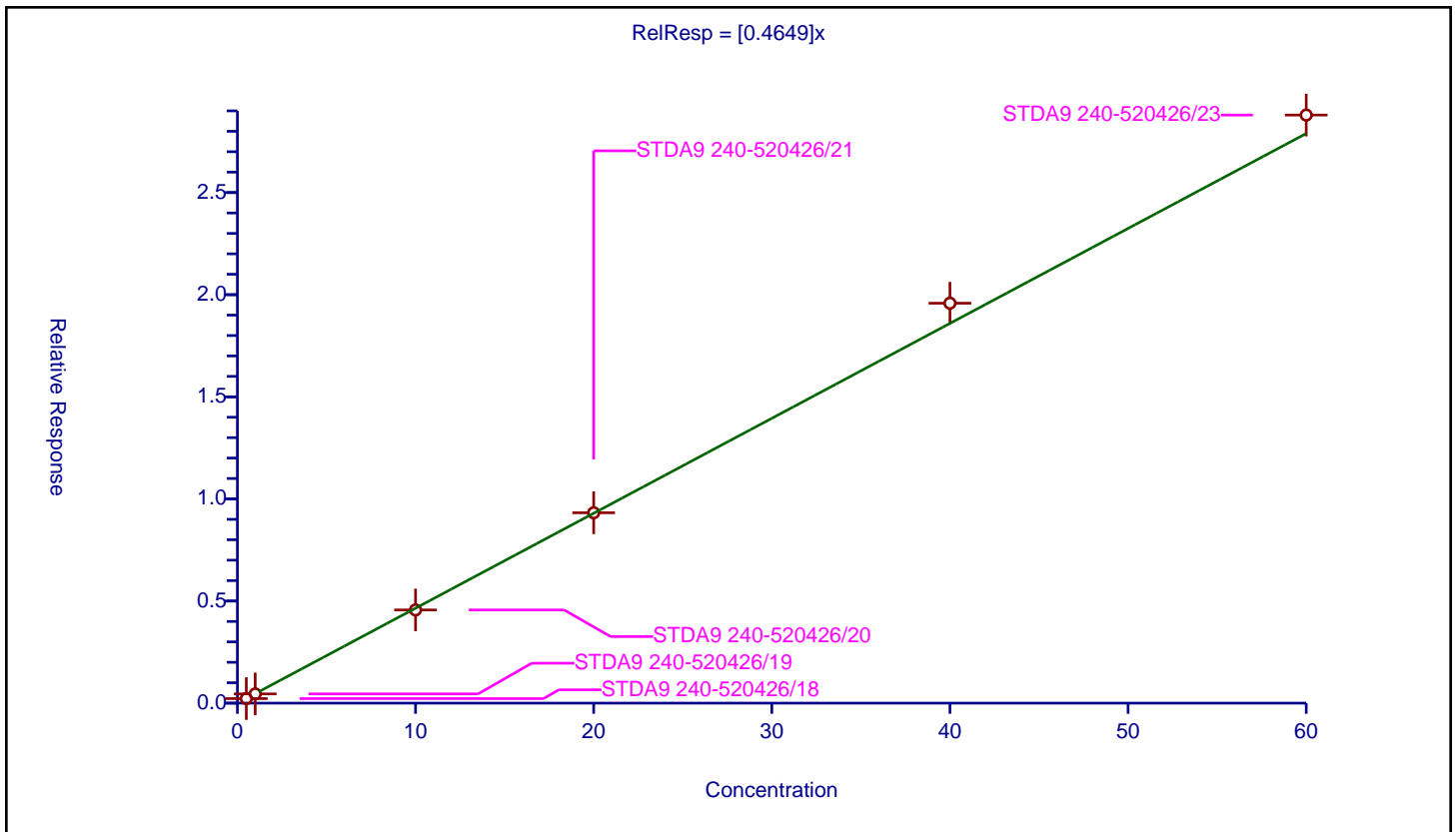
/ Ethyl acrylate

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |        |
|--------------------|--------|
| Intercept:         | 0      |
| Slope:             | 0.4649 |

| Error Coefficients                       |         |
|--|---------|
| Standard Error:                          | 1010000 |
| Relative Standard Error:                 | 3.7     |
| Correlation Coefficient:                 | 0.999   |
| Coefficient of Determination (Adjusted): | 0.998   |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 0.5           | 0.222918   | 20.0      | 1165004.0   | 0.445835 | Y    |
| 2  | STDA9 240-520426/19 | 1.0           | 0.451518   | 20.0      | 1185113.0   | 0.451518 | Y    |
| 3  | STDA9 240-520426/20 | 10.0          | 4.563045   | 20.0      | 1189539.0   | 0.456305 | Y    |
| 4  | STDA9 240-520426/21 | 20.0          | 9.321517   | 20.0      | 1220797.0   | 0.466076 | Y    |
| 5  | STDA9 240-520426/22 | 40.0          | 19.582355  | 20.0      | 1255421.0   | 0.489559 | Y    |
| 6  | STDA9 240-520426/23 | 60.0          | 28.794737  | 20.0      | 1246898.0   | 0.479912 | Y    |



Calibration

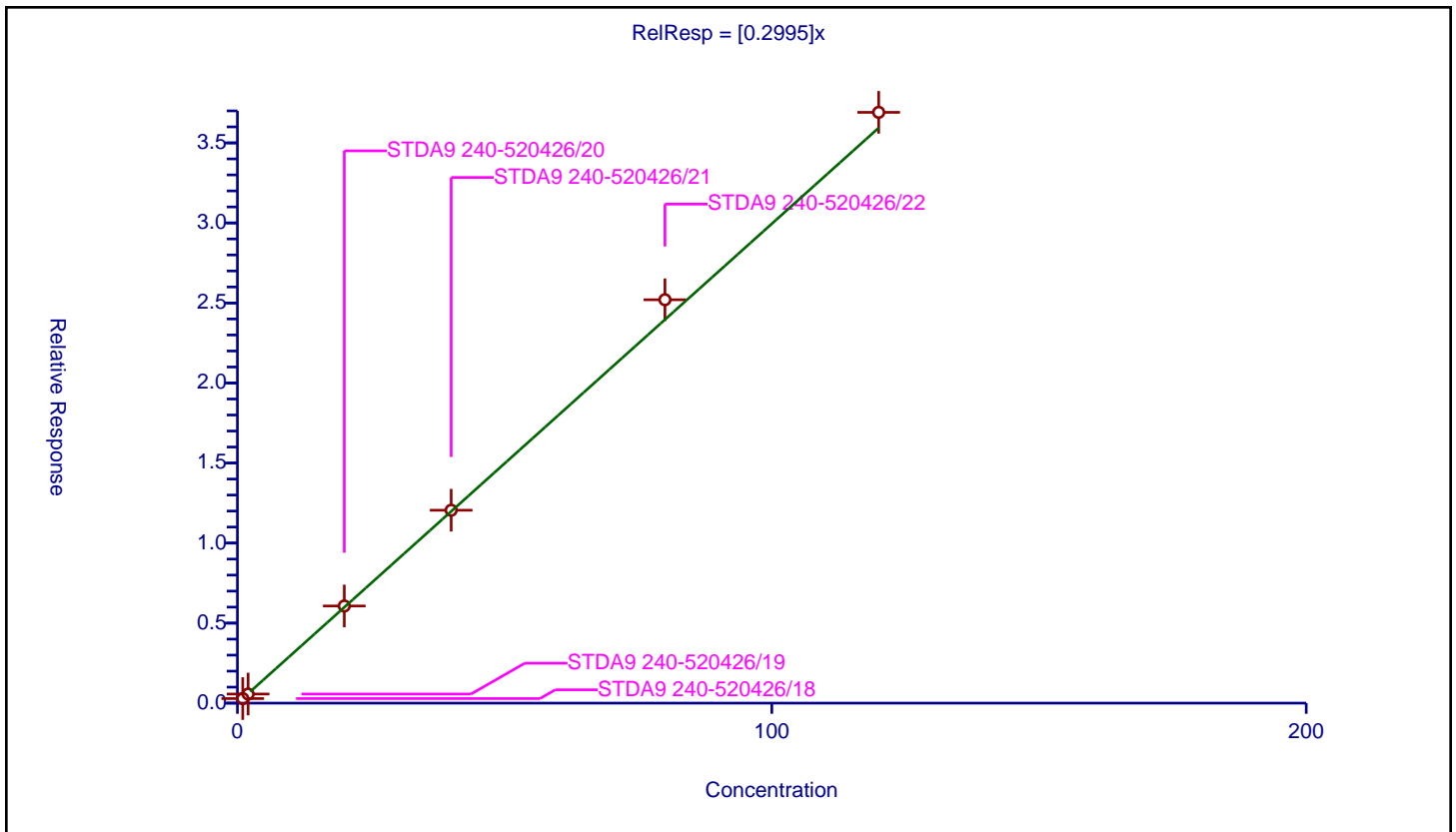
/ Methyl methacrylate

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |        |
|--------------------|--------|
| Intercept:         | 0      |
| Slope:             | 0.2995 |

| Error Coefficients                       |         |
|--|---------|
| Standard Error:                          | 1300000 |
| Relative Standard Error:                 | 4.1     |
| Correlation Coefficient:                 | 0.999   |
| Coefficient of Determination (Adjusted): | 0.998   |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 1.0           | 0.285372   | 20.0      | 1165004.0   | 0.285372 | Y    |
| 2  | STDA9 240-520426/19 | 2.0           | 0.568418   | 20.0      | 1185113.0   | 0.284209 | Y    |
| 3  | STDA9 240-520426/20 | 20.0          | 6.069645   | 20.0      | 1189539.0   | 0.303482 | Y    |
| 4  | STDA9 240-520426/21 | 40.0          | 12.050767  | 20.0      | 1220797.0   | 0.301269 | Y    |
| 5  | STDA9 240-520426/22 | 80.0          | 25.201793  | 20.0      | 1255421.0   | 0.315022 | Y    |
| 6  | STDA9 240-520426/23 | 120.0         | 36.9086    | 20.0      | 1246898.0   | 0.307572 | Y    |



Calibration

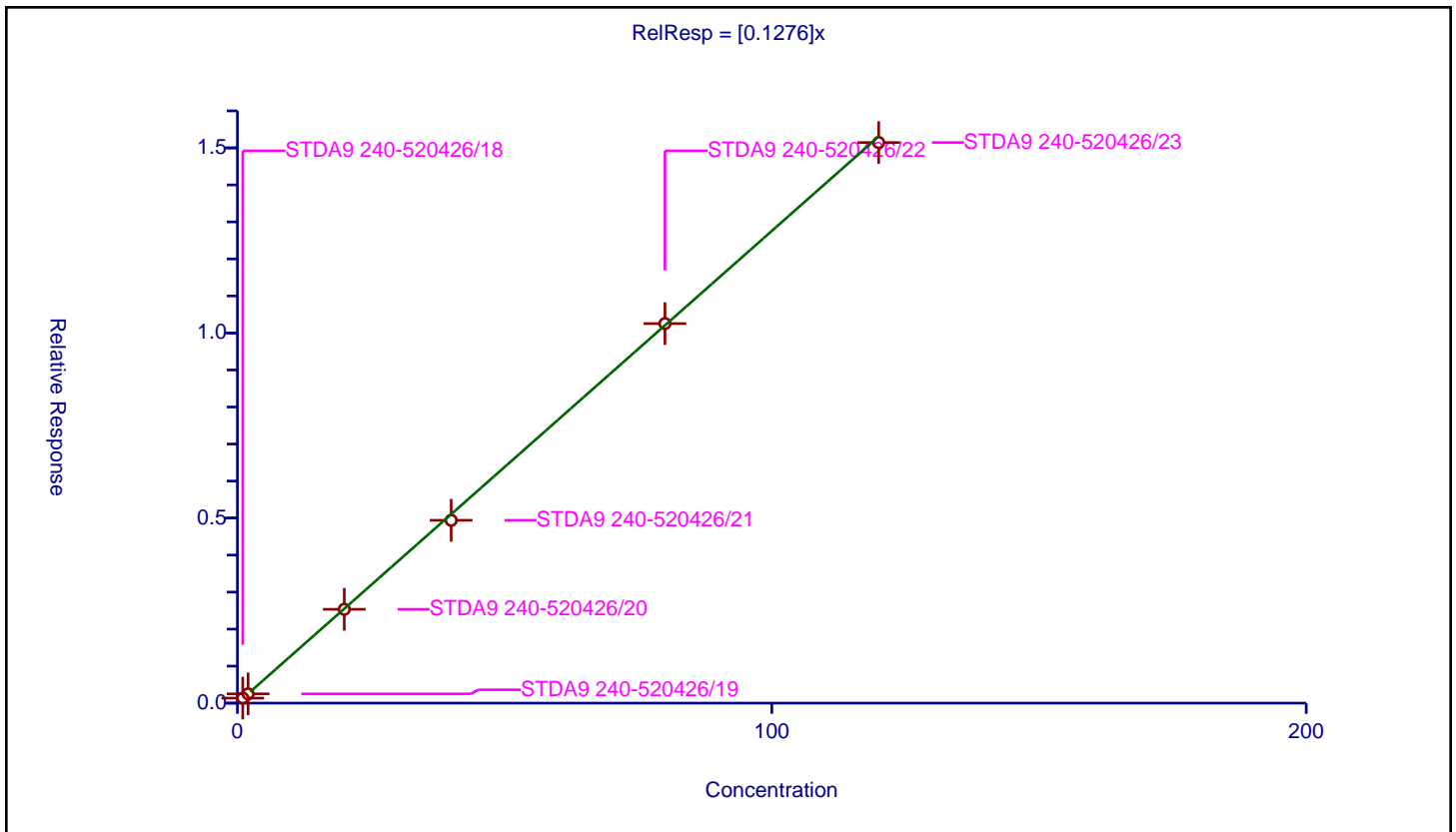
/ 2-Nitropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |        |
|--------------------|--------|
| Intercept:         | 0      |
| Slope:             | 0.1276 |

| Error Coefficients                       |        |
|--|--------|
| Standard Error:                          | 533000 |
| Relative Standard Error:                 | 3.5    |
| Correlation Coefficient:                 | 0.999  |
| Coefficient of Determination (Adjusted): | 0.998  |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 1.0           | 0.135948   | 20.0      | 1165004.0   | 0.135948 | Y    |
| 2  | STDA9 240-520426/19 | 2.0           | 0.249748   | 20.0      | 1185113.0   | 0.124874 | Y    |
| 3  | STDA9 240-520426/20 | 20.0          | 2.534915   | 20.0      | 1189539.0   | 0.126746 | Y    |
| 4  | STDA9 240-520426/21 | 40.0          | 4.939265   | 20.0      | 1220797.0   | 0.123482 | Y    |
| 5  | STDA9 240-520426/22 | 80.0          | 10.25374   | 20.0      | 1255421.0   | 0.128172 | Y    |
| 6  | STDA9 240-520426/23 | 120.0         | 15.144382  | 20.0      | 1246898.0   | 0.126203 | Y    |



**Calibration**

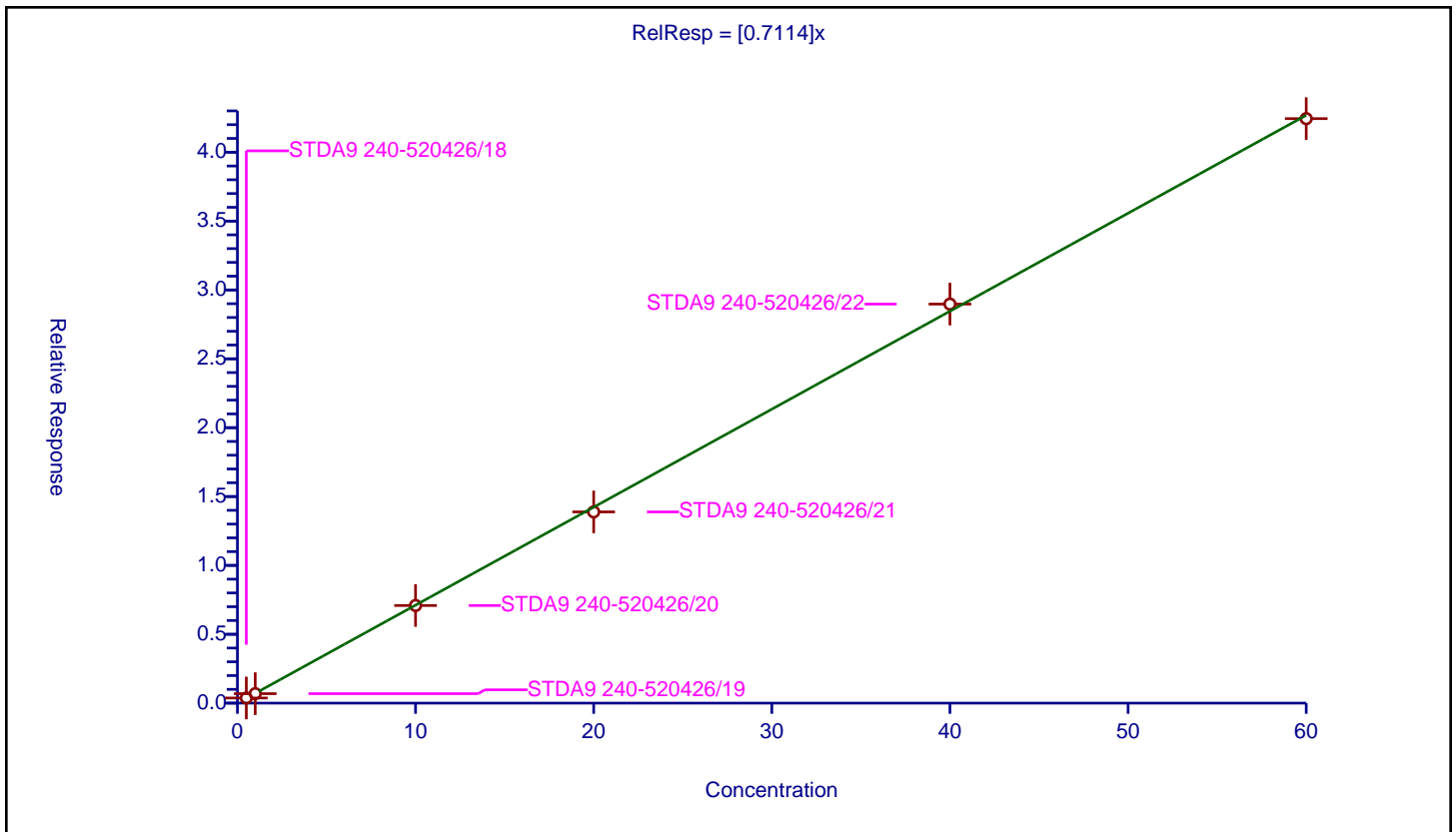
/ n-Butyl acetate

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |        |
|--------------------|--------|
| Intercept:         | 0      |
| Slope:             | 0.7114 |

| Error Coefficients                       |         |
|--|---------|
| Standard Error:                          | 1140000 |
| Relative Standard Error:                 | 3.0     |
| Correlation Coefficient:                 | 0.999   |
| Coefficient of Determination (Adjusted): | 0.999   |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 0.5           | 0.37296    | 20.0      | 898862.0    | 0.745921 | Y    |
| 2  | STDA9 240-520426/19 | 1.0           | 0.687882   | 20.0      | 908935.0    | 0.687882 | Y    |
| 3  | STDA9 240-520426/20 | 10.0          | 7.08722    | 20.0      | 909880.0    | 0.708722 | Y    |
| 4  | STDA9 240-520426/21 | 20.0          | 13.884151  | 20.0      | 935749.0    | 0.694208 | Y    |
| 5  | STDA9 240-520426/22 | 40.0          | 28.972981  | 20.0      | 954900.0    | 0.724325 | Y    |
| 6  | STDA9 240-520426/23 | 60.0          | 42.437892  | 20.0      | 947425.0    | 0.707298 | Y    |



Calibration

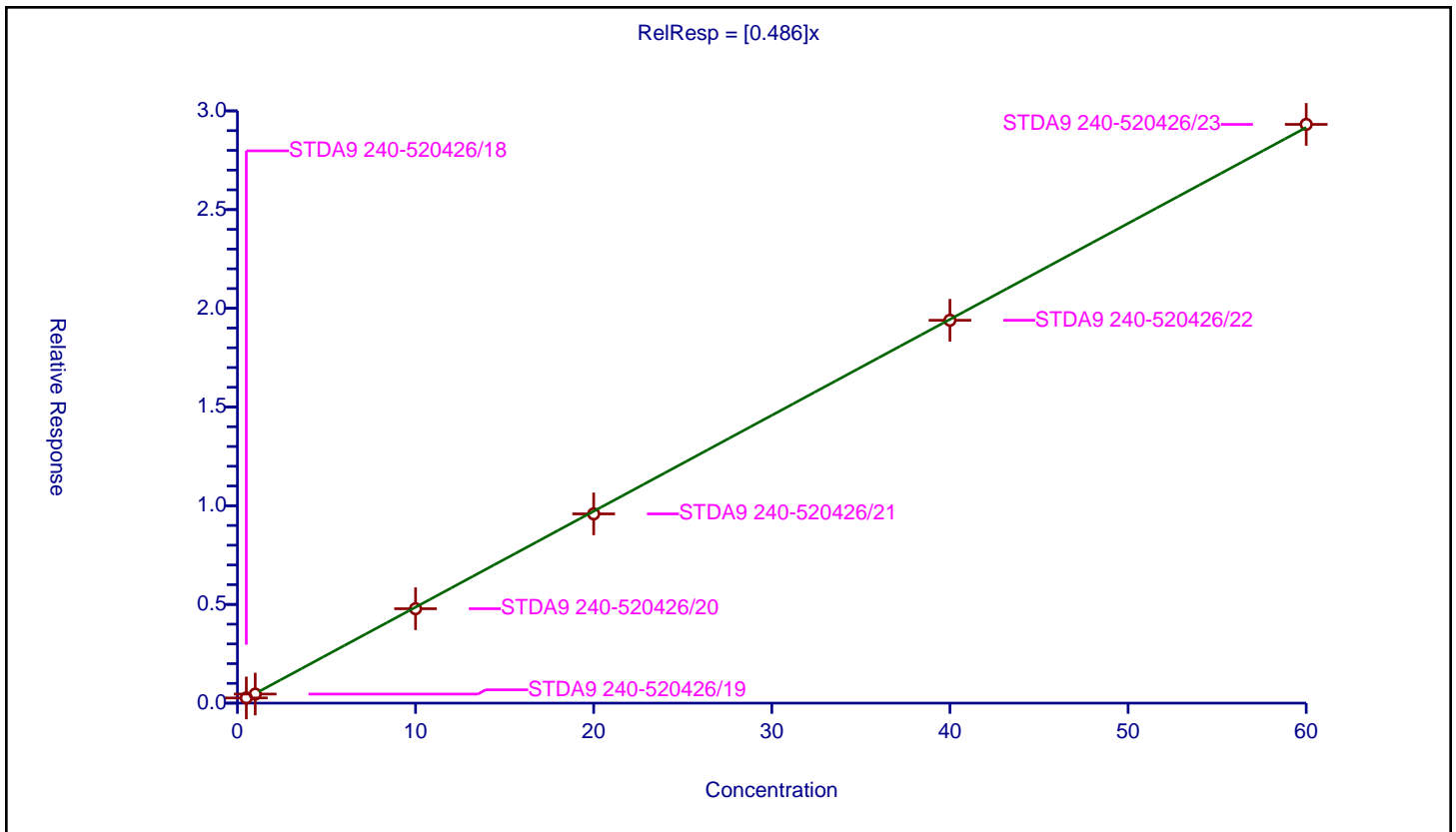
/ 1-Chlorohexane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |       |
|--------------------|-------|
| Intercept:         | 0     |
| Slope:             | 0.486 |

| Error Coefficients                       |        |
|--|--------|
| Standard Error:                          | 779000 |
| Relative Standard Error:                 | 4.5    |
| Correlation Coefficient:                 | 1.000  |
| Coefficient of Determination (Adjusted): | 0.997  |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 0.5           | 0.262621   | 20.0      | 898862.0    | 0.525242 | Y    |
| 2  | STDA9 240-520426/19 | 1.0           | 0.459747   | 20.0      | 908935.0    | 0.459747 | Y    |
| 3  | STDA9 240-520426/20 | 10.0          | 4.781729   | 20.0      | 909880.0    | 0.478173 | Y    |
| 4  | STDA9 240-520426/21 | 20.0          | 9.586609   | 20.0      | 935749.0    | 0.47933  | Y    |
| 5  | STDA9 240-520426/22 | 40.0          | 19.394136  | 20.0      | 954900.0    | 0.484853 | Y    |
| 6  | STDA9 240-520426/23 | 60.0          | 29.315418  | 20.0      | 947425.0    | 0.48859  | Y    |



Calibration

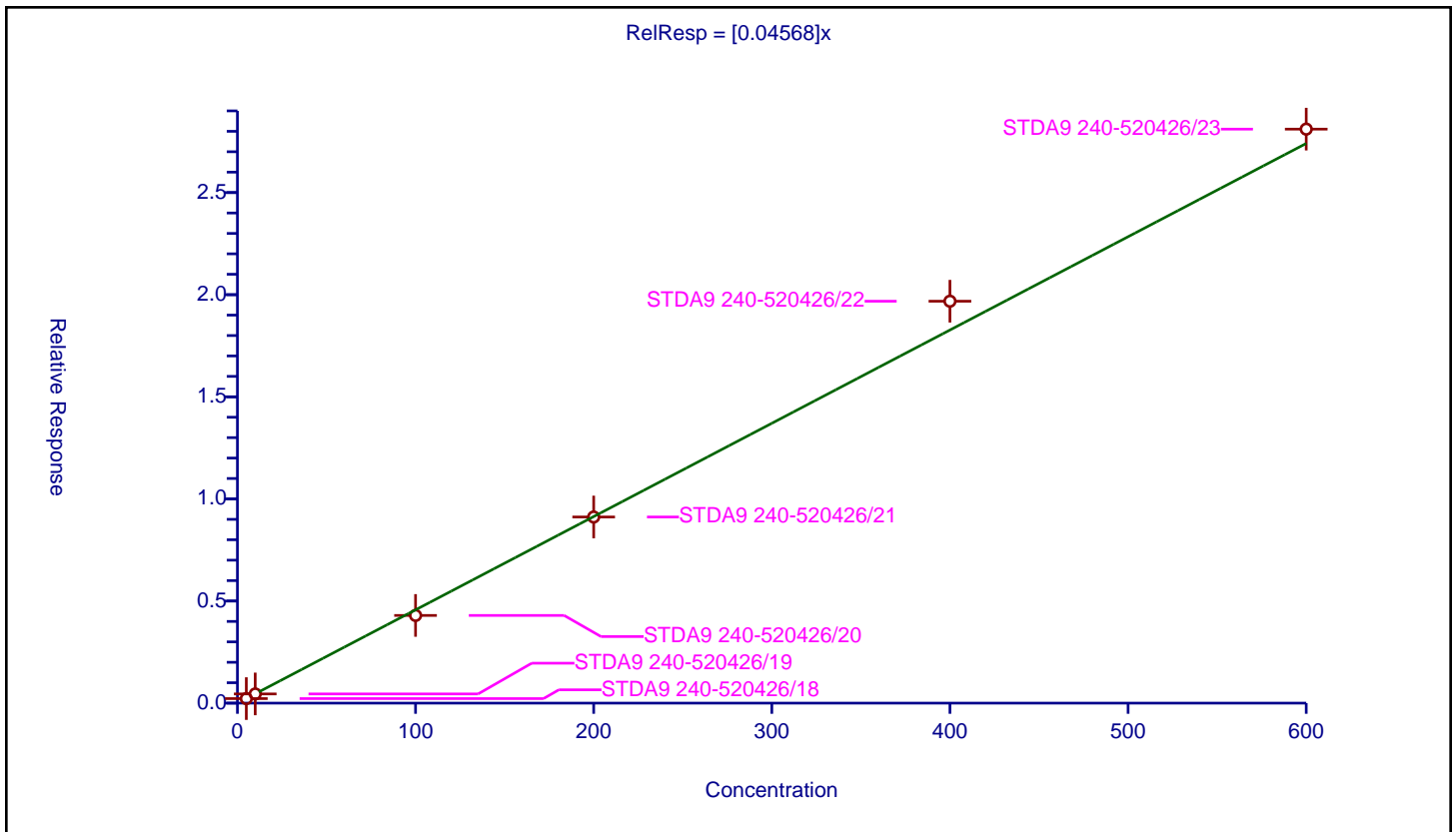
/ Cyclohexanone

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |         |
|--------------------|---------|
| Intercept:         | 0       |
| Slope:             | 0.04568 |

| Error Coefficients                       |        |
|--|--------|
| Standard Error:                          | 386000 |
| Relative Standard Error:                 | 4.7    |
| Correlation Coefficient:                 | 0.998  |
| Coefficient of Determination (Adjusted): | 0.997  |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 5.0           | 0.222262   | 20.0      | 469986.0    | 0.044452 | Y    |
| 2  | STDA9 240-520426/19 | 10.0          | 0.450429   | 20.0      | 479099.0    | 0.045043 | Y    |
| 3  | STDA9 240-520426/20 | 100.0         | 4.294365   | 20.0      | 466998.0    | 0.042944 | Y    |
| 4  | STDA9 240-520426/21 | 200.0         | 9.113591   | 20.0      | 475198.0    | 0.045568 | Y    |
| 5  | STDA9 240-520426/22 | 400.0         | 19.680425  | 20.0      | 483768.0    | 0.049201 | Y    |
| 6  | STDA9 240-520426/23 | 600.0         | 28.106073  | 20.0      | 483065.0    | 0.046843 | Y    |





Calibration

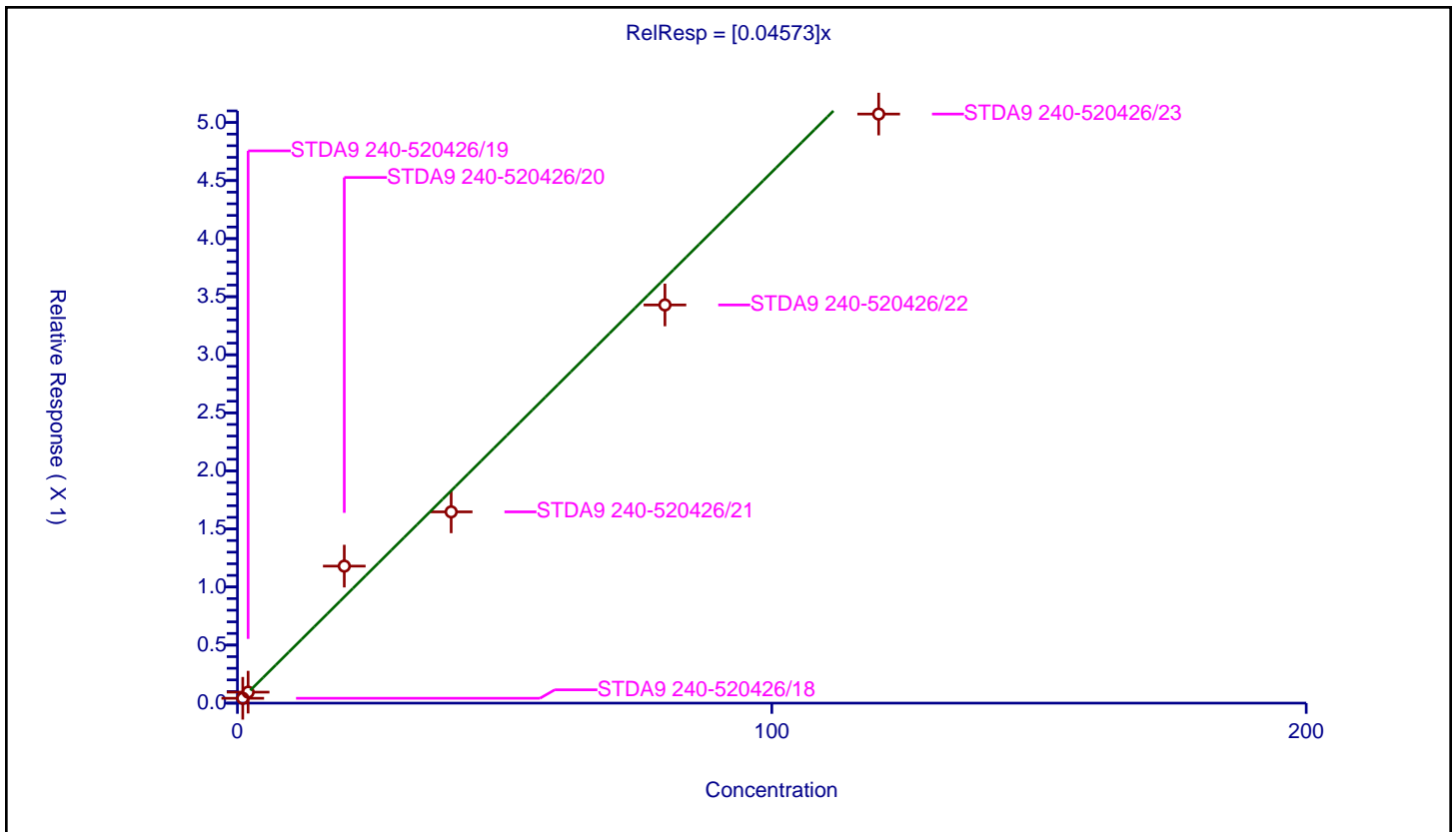
/ Pentachloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |         |
|--------------------|---------|
| Intercept:         | 0       |
| Slope:             | 0.04573 |

| Error Coefficients                       |       |
|--|-------|
| Standard Error:                          | 69500 |
| Relative Standard Error:                 | 15.0  |
| Correlation Coefficient:                 | 0.996 |
| Coefficient of Determination (Adjusted): | 0.973 |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 1.0           | 0.041788   | 20.0      | 469986.0    | 0.041788 | Y    |
| 2  | STDA9 240-520426/19 | 2.0           | 0.094552   | 20.0      | 479099.0    | 0.047276 | Y    |
| 3  | STDA9 240-520426/20 | 20.0          | 1.179791   | 20.0      | 466998.0    | 0.05899  | Y    |
| 4  | STDA9 240-520426/21 | 40.0          | 1.647019   | 20.0      | 475198.0    | 0.041175 | Y    |
| 5  | STDA9 240-520426/22 | 80.0          | 3.428875   | 20.0      | 483768.0    | 0.042861 | Y    |
| 6  | STDA9 240-520426/23 | 120.0         | 5.072816   | 20.0      | 483065.0    | 0.042273 | Y    |



Calibration

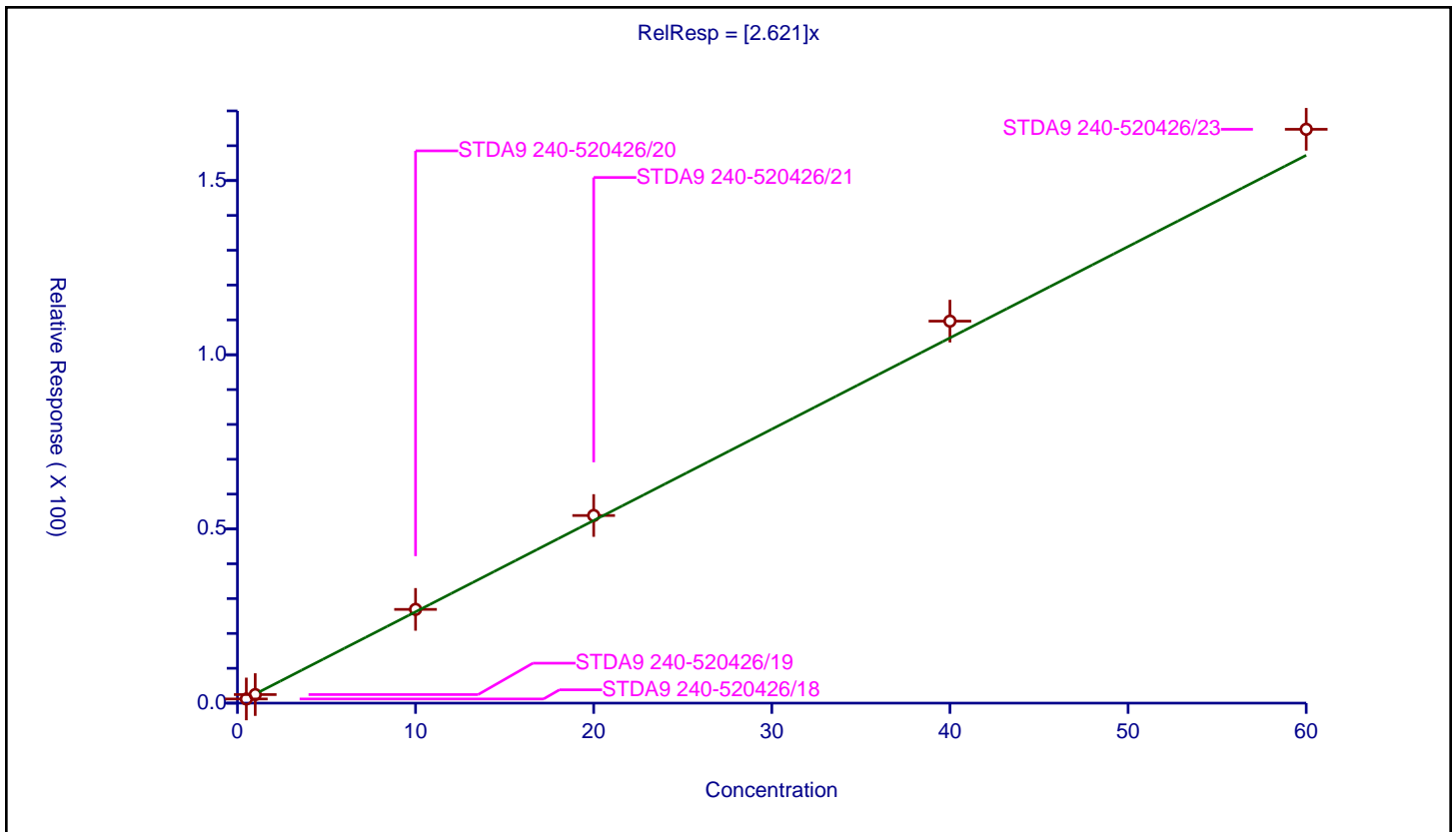
/ 1,2,3-Trimethylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |       |
|--------------------|-------|
| Intercept:         | 0     |
| Slope:             | 2.621 |

| Error Coefficients                       |         |
|--|---------|
| Standard Error:                          | 2230000 |
| Relative Standard Error:                 | 5.8     |
| Correlation Coefficient:                 | 1.000   |
| Coefficient of Determination (Adjusted): | 0.996   |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 0.5           | 1.199866   | 20.0      | 469986.0    | 2.399731 | Y    |
| 2  | STDA9 240-520426/19 | 1.0           | 2.456277   | 20.0      | 479099.0    | 2.456277 | Y    |
| 3  | STDA9 240-520426/20 | 10.0          | 26.909194  | 20.0      | 466998.0    | 2.690919 | Y    |
| 4  | STDA9 240-520426/21 | 20.0          | 53.852878  | 20.0      | 475198.0    | 2.692644 | Y    |
| 5  | STDA9 240-520426/22 | 40.0          | 109.649873 | 20.0      | 483768.0    | 2.741247 | Y    |
| 6  | STDA9 240-520426/23 | 60.0          | 164.717626 | 20.0      | 483065.0    | 2.745294 | Y    |



**Calibration**

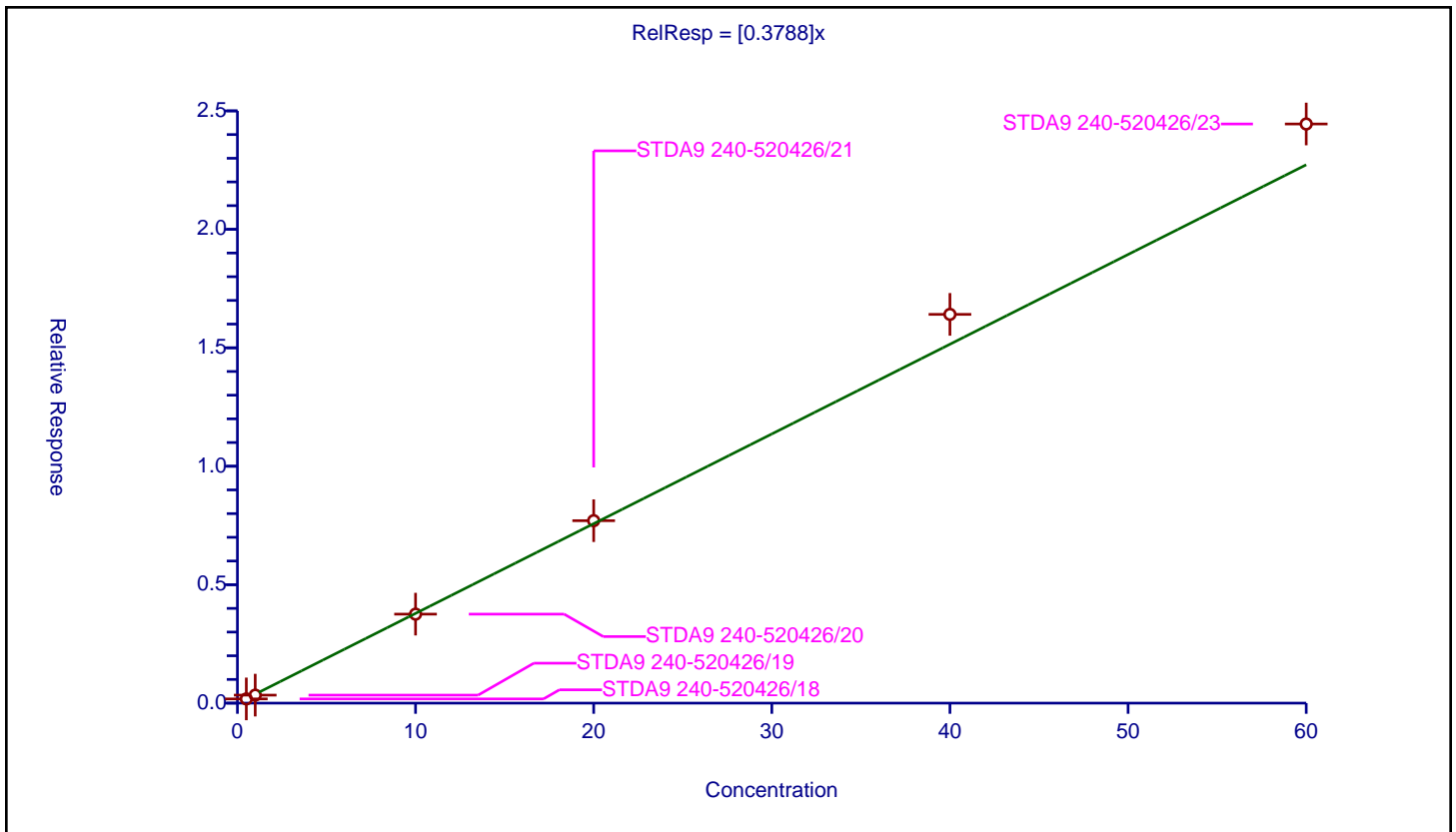
/ Benzyl chloride

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |        |
|--------------------|--------|
| Intercept:         | 0      |
| Slope:             | 0.3788 |

| Error Coefficients                       |        |
|--|--------|
| Standard Error:                          | 331000 |
| Relative Standard Error:                 | 7.5    |
| Correlation Coefficient:                 | 0.999  |
| Coefficient of Determination (Adjusted): | 0.993  |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 0.5           | 0.178005   | 20.0      | 469986.0    | 0.356011 | Y    |
| 2  | STDA9 240-520426/19 | 1.0           | 0.338051   | 20.0      | 479099.0    | 0.338051 | Y    |
| 3  | STDA9 240-520426/20 | 10.0          | 3.756718   | 20.0      | 466998.0    | 0.375672 | Y    |
| 4  | STDA9 240-520426/21 | 20.0          | 7.70159    | 20.0      | 475198.0    | 0.385079 | Y    |
| 5  | STDA9 240-520426/22 | 40.0          | 16.41018   | 20.0      | 483768.0    | 0.410255 | Y    |
| 6  | STDA9 240-520426/23 | 60.0          | 24.44731   | 20.0      | 483065.0    | 0.407455 | Y    |



Calibration

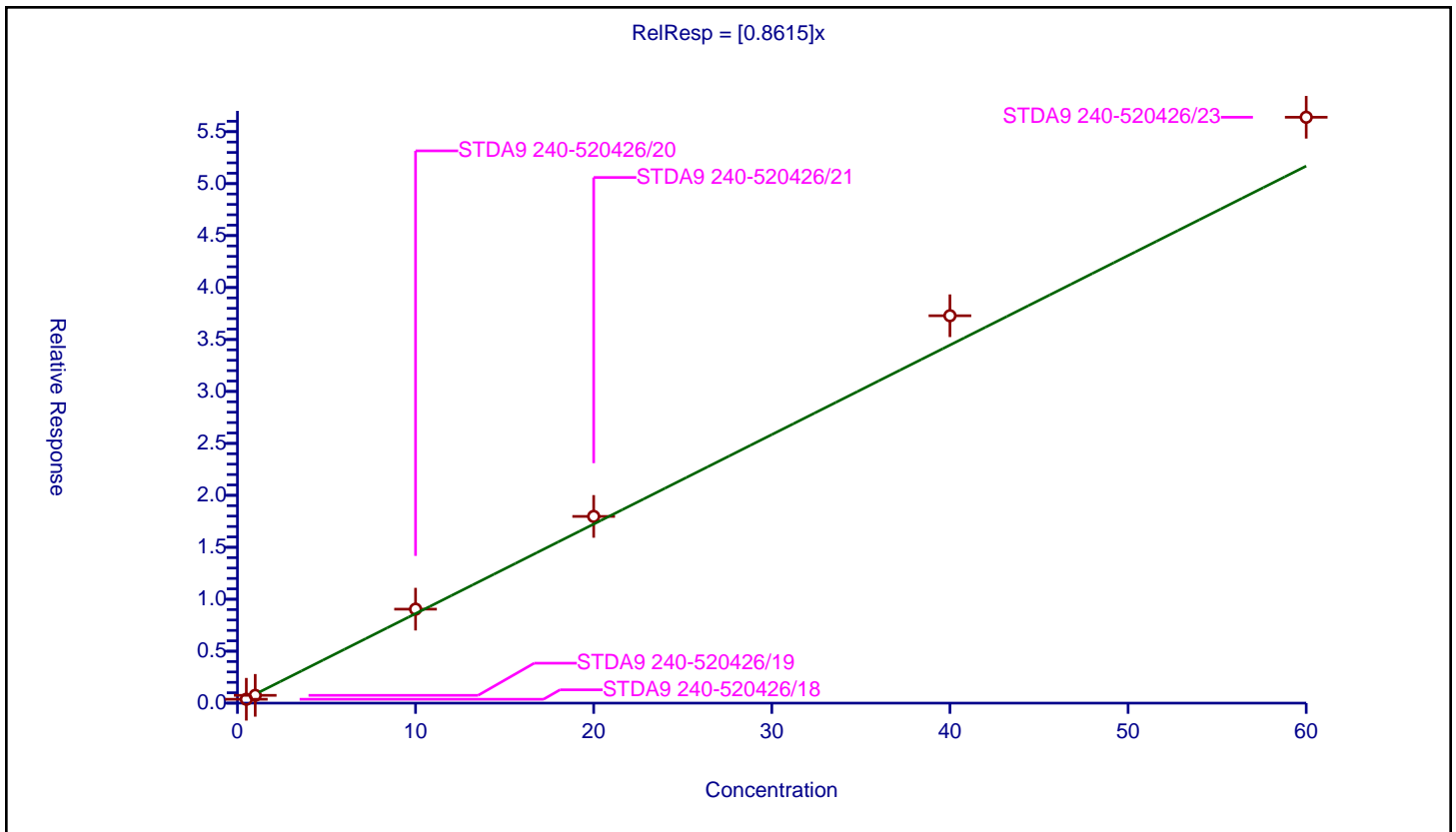
/ 1,3,5-Trichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |        |
|--------------------|--------|
| Intercept:         | 0      |
| Slope:             | 0.8615 |

| Error Coefficients                       |        |
|--|--------|
| Standard Error:                          | 761000 |
| Relative Standard Error:                 | 10.4   |
| Correlation Coefficient:                 | 1.000  |
| Coefficient of Determination (Adjusted): | 0.988  |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 0.5           | 0.371798   | 20.0      | 469986.0    | 0.743597 | Y    |
| 2  | STDA9 240-520426/19 | 1.0           | 0.750617   | 20.0      | 479099.0    | 0.750617 | Y    |
| 3  | STDA9 240-520426/20 | 10.0          | 9.044064   | 20.0      | 466998.0    | 0.904406 | Y    |
| 4  | STDA9 240-520426/21 | 20.0          | 17.969941  | 20.0      | 475198.0    | 0.898497 | Y    |
| 5  | STDA9 240-520426/22 | 40.0          | 37.284359  | 20.0      | 483768.0    | 0.932109 | Y    |
| 6  | STDA9 240-520426/23 | 60.0          | 56.386532  | 20.0      | 483065.0    | 0.939776 | Y    |



Calibration

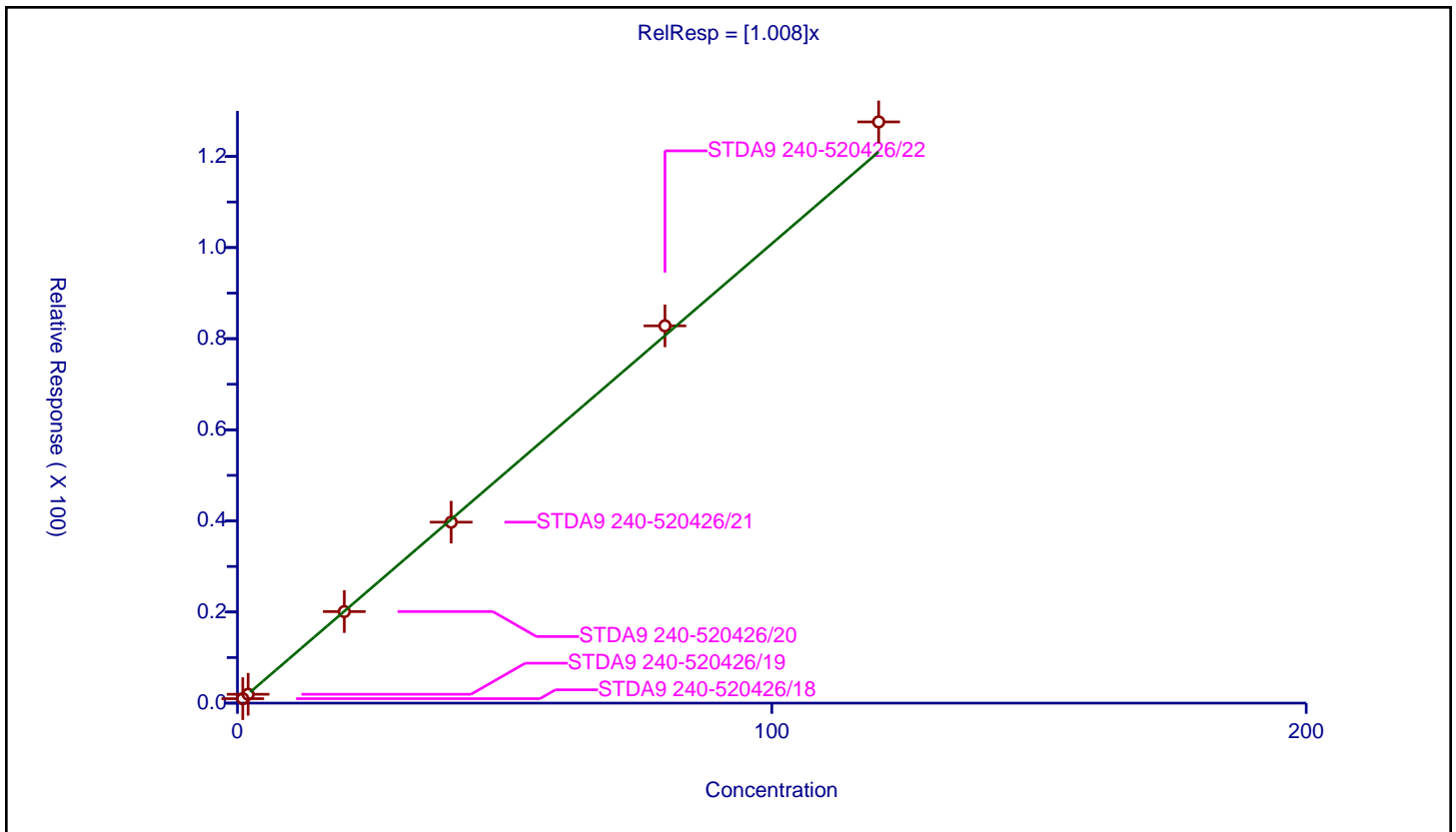
/ 2-Methylnaphthalene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |       |
|--------------------|-------|
| Intercept:         | 0     |
| Slope:             | 1.008 |

| Error Coefficients                       |         |
|--|---------|
| Standard Error:                          | 1710000 |
| Relative Standard Error:                 | 3.4     |
| Correlation Coefficient:                 | 0.999   |
| Coefficient of Determination (Adjusted): | 0.999   |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 1.0           | 0.981391   | 20.0      | 469986.0    | 0.981391 | Y    |
| 2  | STDA9 240-520426/19 | 2.0           | 1.94632    | 20.0      | 479099.0    | 0.97316  | Y    |
| 3  | STDA9 240-520426/20 | 20.0          | 20.095075  | 20.0      | 466998.0    | 1.004754 | Y    |
| 4  | STDA9 240-520426/21 | 40.0          | 39.721085  | 20.0      | 475198.0    | 0.993027 | Y    |
| 5  | STDA9 240-520426/22 | 80.0          | 82.820732  | 20.0      | 483768.0    | 1.035259 | Y    |
| 6  | STDA9 240-520426/23 | 120.0         | 127.583327 | 20.0      | 483065.0    | 1.063194 | Y    |



Calibration

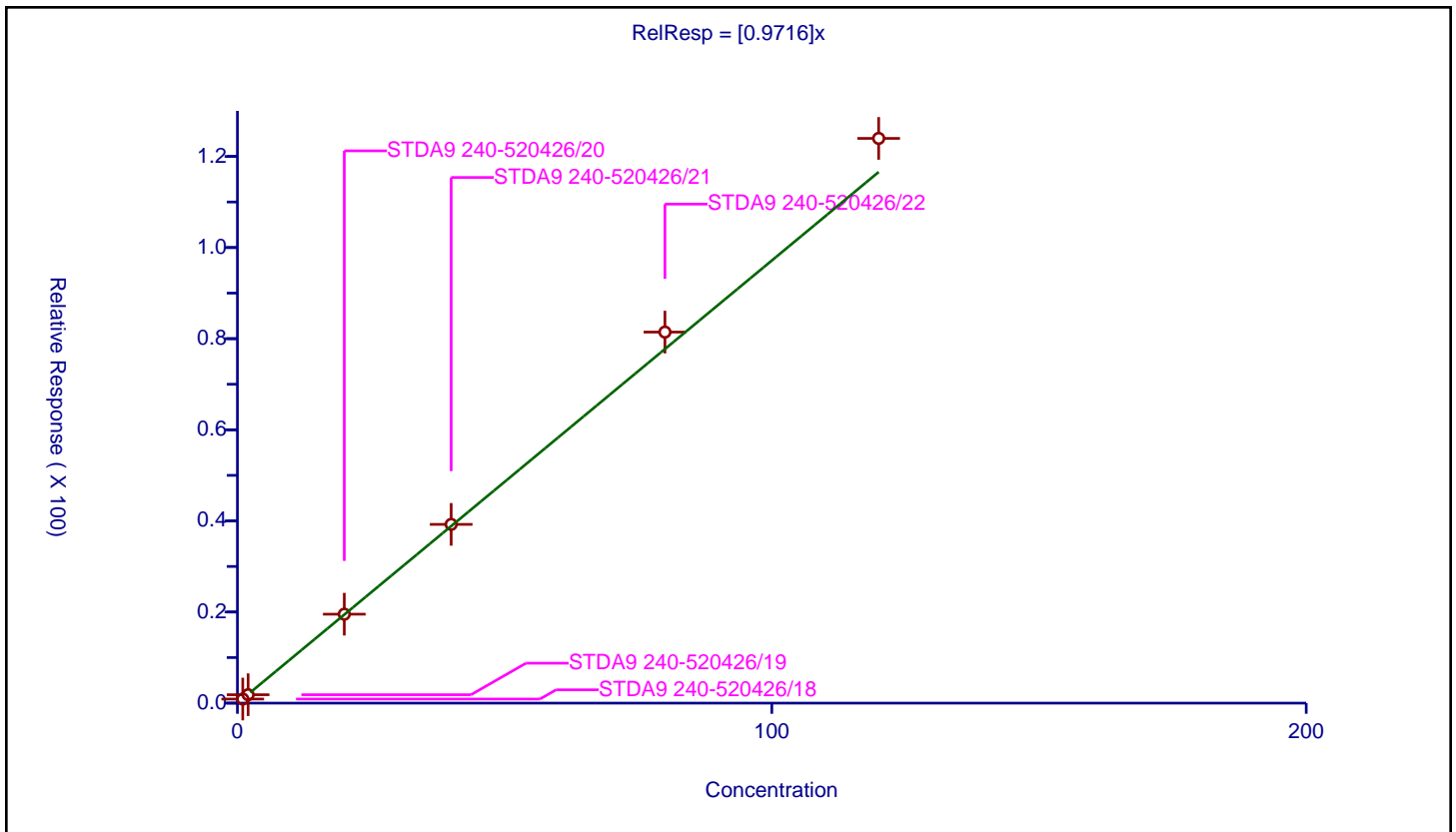
/ 1-Methylnaphthalene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

| Curve Coefficients |        |
|--------------------|--------|
| Intercept:         | 0      |
| Slope:             | 0.9716 |

| Error Coefficients                       |         |
|--|---------|
| Standard Error:                          | 1670000 |
| Relative Standard Error:                 | 5.4     |
| Correlation Coefficient:                 | 1.000   |
| Coefficient of Determination (Adjusted): | 0.997   |

| ID | Level               | Concentration | Rel. Resp. | IS Amount | IS Response | RRF      | Used |
|----|---------------------|---------------|------------|-----------|-------------|----------|------|
| 1  | STDA9 240-520426/18 | 1.0           | 0.897729   | 20.0      | 469986.0    | 0.897729 | Y    |
| 2  | STDA9 240-520426/19 | 2.0           | 1.846967   | 20.0      | 479099.0    | 0.923483 | Y    |
| 3  | STDA9 240-520426/20 | 20.0          | 19.521111  | 20.0      | 466998.0    | 0.976056 | Y    |
| 4  | STDA9 240-520426/21 | 40.0          | 39.238759  | 20.0      | 475198.0    | 0.980969 | Y    |
| 5  | STDA9 240-520426/22 | 80.0          | 81.449496  | 20.0      | 483768.0    | 1.018119 | Y    |
| 6  | STDA9 240-520426/23 | 120.0         | 123.959053 | 20.0      | 483065.0    | 1.032992 | Y    |



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: ICV 240-520426/15 Calibration Date: 03/21/2022 19:14  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000691.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        | 0.2978  | 0.2934 | 0.1000  | 0.0197      | 0.0200       | -1.5   | 30.0   |
| Chloromethane                            | Ave        | 0.3182  | 0.3191 | 0.1000  | 0.0201      | 0.0200       | 0.3    | 30.0   |
| Vinyl chloride                           | Ave        | 0.3251  | 0.3294 | 0.1000  | 0.0203      | 0.0200       | 1.3    | 30.0   |
| Butadiene                                | Ave        | 0.2971  | 0.2665 |         | 0.0179      | 0.0200       | -10.3  | 30.0   |
| Bromomethane                             | Ave        | 0.2290  | 0.2323 | 0.0500  | 0.0203      | 0.0200       | 1.5    | 30.0   |
| Chloroethane                             | Ave        | 0.2161  | 0.2180 | 0.0500  | 0.0202      | 0.0200       | 0.9    | 30.0   |
| Dichlorofluoromethane                    | Ave        | 0.5199  | 0.4876 |         | 0.0188      | 0.0200       | -6.2   | 30.0   |
| Trichlorofluoromethane                   | Ave        | 0.4129  | 0.4155 | 0.1000  | 0.0201      | 0.0200       | 0.6    | 30.0   |
| Ethyl ether                              | Ave        | 0.2021  | 0.1999 |         | 0.0198      | 0.0200       | -1.1   | 30.0   |
| 1,1,2-Trichloro-1,2,2-trichf luoroethane | Ave        | 0.2264  | 0.2261 | 0.0500  | 0.0200      | 0.0200       | -0.1   | 30.0   |
| Acrolein                                 | Ave        | 0.0682  | 0.0410 |         | 0.0600      | 0.100        | -40.0* | 30.0   |
| 1,1-Dichloroethene                       | Ave        | 0.3618  | 0.3641 | 0.1000  | 0.0201      | 0.0200       | 0.6    | 30.0   |
| Acetone                                  | Lin1       |         | 0.0408 | 0.0100  | 0.0373      | 0.0400       | -6.9   | 50.0   |
| Iodomethane                              | Ave        | 0.2887  | 0.2916 |         | 0.0202      | 0.0200       | 1.0    | 30.0   |
| Carbon disulfide                         | Ave        | 0.6884  | 0.7032 | 0.1000  | 0.0204      | 0.0200       | 2.2    | 30.0   |
| 3-Chloro-1-propene                       | Ave        | 0.3999  | 0.3866 |         | 0.0193      | 0.0200       | -3.3   | 30.0   |
| Methyl acetate                           | Ave        | 0.3182  | 0.2908 | 0.1000  | 0.0365      | 0.0400       | -8.6   | 50.0   |
| Methylene Chloride                       | Ave        | 0.3290  | 0.3068 | 0.1000  | 0.0186      | 0.0200       | -6.8   | 50.0   |
| tert-Butyl alcohol                       | Ave        | 0.0642  | 0.0648 |         | 0.202       | 0.200        | 0.9    | 30.0   |
| Methyl tert-butyl ether                  | Ave        | 0.7977  | 0.7853 | 0.1000  | 0.0197      | 0.0200       | -1.6   | 30.0   |
| trans-1,2-Dichloroethene                 | Ave        | 0.3550  | 0.3464 | 0.1000  | 0.0195      | 0.0200       | -2.4   | 30.0   |
| Acrylonitrile                            | Ave        | 0.1544  | 0.1500 |         | 0.194       | 0.200        | -2.9   | 30.0   |
| Hexane                                   | Ave        | 0.3320  | 0.3207 |         | 0.0193      | 0.0200       | -3.4   | 30.0   |
| 1,1-Dichloroethane                       | Ave        | 0.4604  | 0.4381 | 0.2000  | 0.0190      | 0.0200       | -4.8   | 30.0   |
| Vinyl acetate                            | Ave        | 0.5240  | 0.4384 |         | 0.0167      | 0.0200       | -16.3  | 30.0   |
| 2,2-Dichloropropane                      | Ave        | 0.4170  | 0.3970 |         | 0.0190      | 0.0200       | -4.8   | 30.0   |
| cis-1,2-Dichloroethene                   | Ave        | 0.2818  | 0.2753 | 0.1000  | 0.0195      | 0.0200       | -2.3   | 30.0   |
| 2-Butanone                               | Ave        | 0.0617  | 0.0582 | 0.0100  | 0.0377      | 0.0400       | -5.7   | 50.0   |
| Bromochloromethane                       | Ave        | 0.2102  | 0.2047 |         | 0.0195      | 0.0200       | -2.6   | 30.0   |
| Tetrahydrofuran                          | Ave        | 0.1485  | 0.1393 |         | 0.0375      | 0.0400       | -6.2   | 30.0   |
| Chloroform                               | Ave        | 0.4513  | 0.4290 | 0.2000  | 0.0190      | 0.0200       | -4.9   | 30.0   |
| Cyclohexane                              | Ave        | 0.3969  | 0.3896 | 0.1000  | 0.0196      | 0.0200       | -1.8   | 30.0   |
| 1,1,1-Trichloroethane                    | Ave        | 0.4061  | 0.3935 | 0.1000  | 0.0194      | 0.0200       | -3.1   | 30.0   |
| Carbon tetrachloride                     | Ave        | 0.3366  | 0.3280 | 0.1000  | 0.0195      | 0.0200       | -2.5   | 30.0   |
| 1,1-Dichloropropene                      | Ave        | 0.3684  | 0.3548 |         | 0.0193      | 0.0200       | -3.7   | 30.0   |
| Isobutyl alcohol                         | Ave        | 0.0180  | 0.0187 |         | 0.519       | 0.500        | 3.9    | 30.0   |
| Benzene                                  | Ave        | 1.074   | 1.041  | 0.5000  | 0.0194      | 0.0200       | -3.1   | 30.0   |
| 1,2-Dichloroethane                       | Ave        | 0.3597  | 0.3473 | 0.1000  | 0.0193      | 0.0200       | -3.4   | 30.0   |
| n-Heptane                                | Ave        | 0.1953  | 0.1841 |         | 0.0189      | 0.0200       | -5.7   | 30.0   |
| Trichloroethene                          | Ave        | 0.2794  | 0.2810 | 0.1500  | 0.0201      | 0.0200       | 0.6    | 30.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: ICV 240-520426/15 Calibration Date: 03/21/2022 19:14  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000691.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        | 0.4055  | 0.3905 | 0.1000  | 0.0193      | 0.0200       | -3.7 | 30.0   |
| 1,2-Dichloropropane         | Ave        | 0.2587  | 0.2532 | 0.1000  | 0.0196      | 0.0200       | -2.1 | 30.0   |
| 1,4-Dioxane                 | Ave        | 0.0051  | 0.0068 |         | 0.534       | 0.400        | 33.4 | 50.0   |
| Dibromomethane              | Ave        | 0.1701  | 0.1678 |         | 0.0197      | 0.0200       | -1.4 | 30.0   |
| Bromodichloromethane        | Ave        | 0.3359  | 0.3267 | 0.1500  | 0.0195      | 0.0200       | -2.7 | 30.0   |
| 2-Chloroethyl vinyl ether   | Ave        | 0.2072  | 0.2065 |         | 0.0199      | 0.0200       | -0.4 | 30.0   |
| cis-1,3-Dichloropropene     | Ave        | 0.4370  | 0.4148 | 0.1500  | 0.0190      | 0.0200       | -5.1 | 50.0   |
| 4-Methyl-2-pentanone        | Ave        | 0.3982  | 0.3839 | 0.0500  | 0.0386      | 0.0400       | -3.6 | 50.0   |
| Toluene                     | Ave        | 1.577   | 1.496  | 0.4000  | 0.0190      | 0.0200       | -5.1 | 30.0   |
| trans-1,3-Dichloropropene   | Ave        | 0.5503  | 0.5293 | 0.1000  | 0.0192      | 0.0200       | -3.8 | 30.0   |
| Ethyl methacrylate          | Ave        | 0.5487  | 0.5357 |         | 0.0195      | 0.0200       | -2.4 | 30.0   |
| 1,1,2-Trichloroethane       | Ave        | 0.3183  | 0.3096 | 0.1000  | 0.0195      | 0.0200       | -2.7 | 30.0   |
| Tetrachloroethene           | Ave        | 0.3614  | 0.3631 | 0.1500  | 0.0201      | 0.0200       | 0.5  | 30.0   |
| 1,3-Dichloropropane         | Ave        | 0.5744  | 0.5546 |         | 0.0193      | 0.0200       | -3.4 | 30.0   |
| 2-Hexanone                  | Ave        | 0.4204  | 0.4104 | 0.0500  | 0.0390      | 0.0400       | -2.4 | 50.0   |
| Dibromochloromethane        | Ave        | 0.3324  | 0.3189 |         | 0.0192      | 0.0200       | -4.1 | 30.0   |
| 1,2-Dibromoethane           | Ave        | 0.3439  | 0.3309 |         | 0.0192      | 0.0200       | -3.8 | 30.0   |
| Chlorobenzene               | Ave        | 0.9772  | 0.9479 | 0.3000  | 0.0194      | 0.0200       | -3.0 | 30.0   |
| Ethylbenzene                | Ave        | 0.5379  | 0.5280 |         | 0.0196      | 0.0200       | -1.8 | 30.0   |
| 1,1,1,2-Tetrachloroethane   | Ave        | 0.3342  | 0.3241 |         | 0.0194      | 0.0200       | -3.0 | 30.0   |
| m-Xylene & p-Xylene         | Ave        | 0.6805  | 0.6526 |         | 0.0192      | 0.0200       | -4.1 | 30.0   |
| o-Xylene                    | Ave        | 0.6482  | 0.6278 |         | 0.0194      | 0.0200       | -3.1 | 30.0   |
| Styrene                     | Ave        | 1.110   | 1.081  | 0.3000  | 0.0195      | 0.0200       | -2.6 | 30.0   |
| Bromoform                   | Ave        | 0.2529  | 0.2486 | 0.1000  | 0.0197      | 0.0200       | -1.7 | 30.0   |
| Isopropylbenzene            | Ave        | 1.670   | 1.632  | 0.1000  | 0.0195      | 0.0200       | -2.3 | 30.0   |
| Bromobenzene                | Ave        | 0.7857  | 0.7814 |         | 0.0199      | 0.0200       | -0.6 | 30.0   |
| 1,1,2,2-Tetrachloroethane   | Ave        | 0.9796  | 0.9645 | 0.3000  | 0.0197      | 0.0200       | -1.5 | 30.0   |
| n-Propylbenzene             | Ave        | 0.8769  | 0.8707 |         | 0.0199      | 0.0200       | -0.7 | 30.0   |
| 1,2,3-Trichloropropane      | Ave        | 0.3516  | 0.3372 |         | 0.0192      | 0.0200       | -4.1 | 30.0   |
| trans-1,4-Dichloro-2-butene | Ave        | 0.3960  | 0.4030 |         | 0.0203      | 0.0200       | 1.7  | 30.0   |
| 2-Chlorotoluene             | Ave        | 0.7409  | 0.7524 |         | 0.0203      | 0.0200       | 1.6  | 30.0   |
| 1,3,5-Trimethylbenzene      | Ave        | 2.605   | 2.632  |         | 0.0202      | 0.0200       | 1.1  | 30.0   |
| 4-Chlorotoluene             | Ave        | 0.7929  | 0.7823 |         | 0.0197      | 0.0200       | -1.3 | 30.0   |
| tert-Butylbenzene           | Ave        | 2.197   | 2.224  |         | 0.0203      | 0.0200       | 1.3  | 30.0   |
| 1,2,4-Trimethylbenzene      | Ave        | 2.659   | 2.687  |         | 0.0202      | 0.0200       | 1.1  | 30.0   |
| sec-Butylbenzene            | Ave        | 0.6440  | 0.6588 |         | 0.0205      | 0.0200       | 2.3  | 30.0   |
| 1,3-Dichlorobenzene         | Ave        | 1.464   | 1.477  | 0.6000  | 0.0202      | 0.0200       | 0.9  | 30.0   |
| p-Isopropyltoluene          | Ave        | 2.692   | 2.749  |         | 0.0204      | 0.0200       | 2.1  | 30.0   |
| 1,4-Dichlorobenzene         | Ave        | 1.499   | 1.496  | 0.5000  | 0.0200      | 0.0200       | -0.2 | 30.0   |
| n-Butylbenzene              | Ave        | 2.276   | 2.292  |         | 0.0201      | 0.0200       | 0.7  | 30.0   |
| 1,2-Dichlorobenzene         | Ave        | 1.383   | 1.396  | 0.4000  | 0.0202      | 0.0200       | 0.9  | 30.0   |



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: ICV 240-520426/15 Calibration Date: 03/21/2022 19:14  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000691.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        | 0.3090  | 0.3029 | 0.0500  | 0.0196      | 0.0200       | -2.0 | 50.0   |
| 1,2,4-Trichlorobenzene       | Ave        | 0.8158  | 0.8205 | 0.2000  | 0.0201      | 0.0200       | 0.6  | 50.0   |
| Hexachlorobutadiene          | Ave        | 0.3467  | 0.3560 |         | 0.0205      | 0.0200       | 2.7  | 50.0   |
| Naphthalene                  | Ave        | 2.649   | 2.700  |         | 0.0204      | 0.0200       | 1.9  | 50.0   |
| 1,2,3-Trichlorobenzene       | Ave        | 0.7728  | 0.7846 |         | 0.0203      | 0.0200       | 1.5  | 30.0   |
| Dibromofluoromethane (Surr)  | Ave        | 0.2333  | 0.2557 |         | 0.0219      | 0.0200       | 9.6  | 30.0   |
| 1,2-Dichloroethane-d4 (Surr) | Ave        | 0.2976  | 0.3008 |         | 0.0202      | 0.0200       | 1.1  | 30.0   |
| Toluene-d8 (Surr)            | Ave        | 1.298   | 1.368  |         | 0.0211      | 0.0200       | 5.4  | 30.0   |
| 4-Bromofluorobenzene (Surr)  | Ave        | 0.5013  | 0.5479 |         | 0.0219      | 0.0200       | 9.3  | 30.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: ICV 240-520426/24 Calibration Date: 03/21/2022 22:54  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 20:28  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 22:30  
 Lab File ID: UX000700.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        | 0.0590  | 0.0538 |         | 0.182       | 0.200        | -8.9   | 30.0   |
| Diisopropyl ether             | Ave        | 0.2206  | 0.2269 |         | 0.0206      | 0.0200       | 2.9    | 30.0   |
| 2-Chloro-1,3-butadiene        | Ave        | 0.4122  | 0.4108 |         | 0.0199      | 0.0200       | -0.3   | 30.0   |
| Ethyl-t-butyl ether (ETBE)    | Ave        | 0.7777  | 0.8031 |         | 0.0207      | 0.0200       | 3.3    | 30.0   |
| Ethyl acetate                 | Ave        | 0.3889  | 0.3767 |         | 0.0387      | 0.0400       | -3.1   | 30.0   |
| Propionitrile                 | Ave        | 0.0659  | 0.0652 |         | 0.198       | 0.200        | -1.0   | 30.0   |
| Methacrylonitrile             | Ave        | 0.2291  | 0.2275 |         | 0.199       | 0.200        | -0.7   | 30.0   |
| Tert-amyl-methyl ether (TAME) | Ave        | 0.7931  | 0.8198 |         | 0.0207      | 0.0200       | 3.4    | 30.0   |
| n-Butanol                     | Ave        | 0.0151  | 0.0166 |         | 0.551       | 0.500        | 10.3   | 30.0   |
| Ethyl acrylate                | Ave        | 0.4649  | 0.4606 |         | 0.0198      | 0.0200       | -0.9   | 30.0   |
| Methyl methacrylate           | Ave        | 0.2995  | 0.2979 |         | 0.0398      | 0.0400       | -0.5   | 30.0   |
| 2-Nitropropane                | Ave        | 0.1276  | 0.1209 |         | 0.0379      | 0.0400       | -5.3   | 30.0   |
| n-Butyl acetate               | Ave        | 0.7114  | 0.6779 |         | 0.0191      | 0.0200       | -4.7   | 30.0   |
| 1-Chlorohexane                | Ave        | 0.4860  | 0.4579 |         | 0.0188      | 0.0200       | -5.8   | 30.0   |
| Cyclohexanone                 | Ave        | 0.0457  | 0.0518 |         | 0.227       | 0.200        | 13.5   | 30.0   |
| Pentachloroethane             | Ave        | 0.0457  | 0.0237 |         | 0.0207      | 0.0400       | -48.2* | 30.0   |
| 1,2,3-Trimethylbenzene        | Ave        | 2.621   | 2.643  |         | 0.0202      | 0.0200       | 0.8    | 30.0   |
| Benzyl chloride               | Ave        | 0.3788  | 0.3598 |         | 0.0190      | 0.0200       | -5.0   | 30.0   |
| 1,3,5-Trichlorobenzene        | Ave        | 0.8615  | 0.8873 |         | 0.0206      | 0.0200       | 3.0    | 30.0   |
| 2-Methylnaphthalene           | Ave        | 1.008   | 1.084  |         | 0.0430      | 0.0400       | 7.5    | 30.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCVIS 240-520596/3 Calibration Date: 03/23/2022 09:49  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000747.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        | 0.2978  | 0.3675 | 0.1000  | 0.0247      | 0.0200       | 23.4*  | 20.0   |
| Chloromethane                            | Ave        | 0.3182  | 0.3334 | 0.1000  | 0.0210      | 0.0200       | 4.8    | 20.0   |
| Vinyl chloride                           | Ave        | 0.3251  | 0.3426 | 0.1000  | 0.0211      | 0.0200       | 5.4    | 20.0   |
| Butadiene                                | Ave        | 0.2971  | 0.3351 |         | 0.0226      | 0.0200       | 12.8   | 20.0   |
| Bromomethane                             | Ave        | 0.2290  | 0.2180 | 0.0500  | 0.0190      | 0.0200       | -4.8   | 20.0   |
| Chloroethane                             | Ave        | 0.2161  | 0.2232 | 0.0500  | 0.0207      | 0.0200       | 3.3    | 20.0   |
| Dichlorofluoromethane                    | Ave        | 0.5199  | 0.5051 |         | 0.0194      | 0.0200       | -2.8   | 20.0   |
| Trichlorofluoromethane                   | Ave        | 0.4129  | 0.4468 | 0.1000  | 0.0216      | 0.0200       | 8.2    | 20.0   |
| Ethyl ether                              | Ave        | 0.2021  | 0.1976 |         | 0.0196      | 0.0200       | -2.2   | 20.0   |
| 1,1,2-Trichloro-1,2,2-trichf luoroethane | Ave        | 0.2264  | 0.2281 | 0.0500  | 0.0202      | 0.0200       | 0.8    | 20.0   |
| Acrolein                                 | Ave        | 0.0682  | 0.0658 |         | 0.0965      | 0.100        | -3.5   | 20.0   |
| 1,1-Dichloroethene                       | Ave        | 0.3618  | 0.3498 | 0.1000  | 0.0193      | 0.0200       | -3.3   | 20.0   |
| Acetone                                  | Lin1       |         | 0.0372 | 0.0100  | 0.0338      | 0.0400       | -15.5  | 50.0   |
| Iodomethane                              | Ave        | 0.2887  | 0.2796 |         | 0.0194      | 0.0200       | -3.1   | 20.0   |
| Carbon disulfide                         | Ave        | 0.6884  | 0.6744 | 0.1000  | 0.0196      | 0.0200       | -2.0   | 20.0   |
| 3-Chloro-1-propene                       | Ave        | 0.3999  | 0.3792 |         | 0.0190      | 0.0200       | -5.2   | 20.0   |
| Methyl acetate                           | Ave        | 0.3182  | 0.2697 | 0.1000  | 0.0339      | 0.0400       | -15.2  | 50.0   |
| Methylene Chloride                       | Ave        | 0.3290  | 0.3031 | 0.1000  | 0.0184      | 0.0200       | -7.9   | 50.0   |
| tert-Butyl alcohol                       | Ave        | 0.0642  | 0.0513 |         | 0.160       | 0.200        | -20.1* | 20.0   |
| Methyl tert-butyl ether                  | Ave        | 0.7977  | 0.7568 | 0.1000  | 0.0190      | 0.0200       | -5.1   | 20.0   |
| trans-1,2-Dichloroethene                 | Ave        | 0.3550  | 0.3329 | 0.1000  | 0.0188      | 0.0200       | -6.2   | 20.0   |
| Acrylonitrile                            | Ave        | 0.1544  | 0.1423 |         | 0.184       | 0.200        | -7.8   | 20.0   |
| Hexane                                   | Ave        | 0.3320  | 0.3397 |         | 0.0205      | 0.0200       | 2.3    | 20.0   |
| 1,1-Dichloroethane                       | Ave        | 0.4604  | 0.4381 | 0.2000  | 0.0190      | 0.0200       | -4.9   | 20.0   |
| Vinyl acetate                            | Ave        | 0.5240  | 0.6332 |         | 0.0242      | 0.0200       | 20.8*  | 20.0   |
| 2,2-Dichloropropane                      | Ave        | 0.4170  | 0.4075 |         | 0.0195      | 0.0200       | -2.3   | 20.0   |
| cis-1,2-Dichloroethene                   | Ave        | 0.2818  | 0.2626 | 0.1000  | 0.0186      | 0.0200       | -6.8   | 20.0   |
| 2-Butanone                               | Ave        | 0.0617  | 0.0555 | 0.0100  | 0.0360      | 0.0400       | -10.1  | 50.0   |
| Bromochloromethane                       | Ave        | 0.2102  | 0.2041 |         | 0.0194      | 0.0200       | -2.9   | 20.0   |
| Tetrahydrofuran                          | Ave        | 0.1485  | 0.1285 |         | 0.0346      | 0.0400       | -13.5  | 20.0   |
| Chloroform                               | Ave        | 0.4513  | 0.4225 | 0.2000  | 0.0187      | 0.0200       | -6.4   | 20.0   |
| Cyclohexane                              | Ave        | 0.3969  | 0.3962 | 0.1000  | 0.0200      | 0.0200       | -0.2   | 20.0   |
| 1,1,1-Trichloroethane                    | Ave        | 0.4061  | 0.3812 | 0.1000  | 0.0188      | 0.0200       | -6.1   | 20.0   |
| Carbon tetrachloride                     | Ave        | 0.3366  | 0.3179 | 0.1000  | 0.0189      | 0.0200       | -5.6   | 20.0   |
| 1,1-Dichloropropene                      | Ave        | 0.3684  | 0.3536 |         | 0.0192      | 0.0200       | -4.0   | 20.0   |
| Isobutyl alcohol                         | Ave        | 0.0180  | 0.0150 |         | 0.416       | 0.500        | -16.8  | 20.0   |
| Benzene                                  | Ave        | 1.074   | 1.014  | 0.5000  | 0.0189      | 0.0200       | -5.6   | 20.0   |
| 1,2-Dichloroethane                       | Ave        | 0.3597  | 0.3424 | 0.1000  | 0.0190      | 0.0200       | -4.8   | 20.0   |
| n-Heptane                                | Ave        | 0.1953  | 0.1964 |         | 0.0201      | 0.0200       | 0.6    | 20.0   |
| Trichloroethene                          | Ave        | 0.2794  | 0.2620 | 0.1500  | 0.0188      | 0.0200       | -6.2   | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCVIS 240-520596/3 Calibration Date: 03/23/2022 09:49  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000747.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        | 0.4055  | 0.4068 | 0.1000  | 0.0201      | 0.0200       | 0.3   | 20.0   |
| 1,2-Dichloropropane         | Ave        | 0.2587  | 0.2461 | 0.1000  | 0.0190      | 0.0200       | -4.9  | 20.0   |
| 1,4-Dioxane                 | Ave        | 0.0051  | 0.0040 |         | 0.317       | 0.400        | -20.7 | 50.0   |
| Dibromomethane              | Ave        | 0.1701  | 0.1589 |         | 0.0187      | 0.0200       | -6.6  | 20.0   |
| Bromodichloromethane        | Ave        | 0.3359  | 0.3144 | 0.1500  | 0.0187      | 0.0200       | -6.4  | 20.0   |
| 2-Chloroethyl vinyl ether   | Ave        | 0.2072  | 0.1990 |         | 0.0384      | 0.0400       | -4.0  | 20.0   |
| cis-1,3-Dichloropropene     | Ave        | 0.4370  | 0.4156 | 0.1500  | 0.0190      | 0.0200       | -4.9  | 50.0   |
| 4-Methyl-2-pentanone        | Ave        | 0.3982  | 0.3709 | 0.0500  | 0.0373      | 0.0400       | -6.9  | 50.0   |
| Toluene                     | Ave        | 1.577   | 1.406  | 0.4000  | 0.0178      | 0.0200       | -10.8 | 20.0   |
| trans-1,3-Dichloropropene   | Ave        | 0.5503  | 0.5044 | 0.1000  | 0.0183      | 0.0200       | -8.3  | 20.0   |
| Ethyl methacrylate          | Ave        | 0.5487  | 0.5023 |         | 0.0183      | 0.0200       | -8.4  | 20.0   |
| 1,1,2-Trichloroethane       | Ave        | 0.3183  | 0.2882 | 0.1000  | 0.0181      | 0.0200       | -9.5  | 20.0   |
| Tetrachloroethene           | Ave        | 0.3614  | 0.3351 | 0.1500  | 0.0185      | 0.0200       | -7.3  | 20.0   |
| 1,3-Dichloropropane         | Ave        | 0.5744  | 0.5194 |         | 0.0181      | 0.0200       | -9.6  | 20.0   |
| 2-Hexanone                  | Ave        | 0.4204  | 0.3671 | 0.0500  | 0.0349      | 0.0400       | -12.7 | 50.0   |
| Dibromochloromethane        | Ave        | 0.3324  | 0.2917 |         | 0.0176      | 0.0200       | -12.2 | 20.0   |
| 1,2-Dibromoethane           | Ave        | 0.3439  | 0.3126 |         | 0.0182      | 0.0200       | -9.1  | 20.0   |
| Chlorobenzene               | Ave        | 0.9772  | 0.8852 | 0.3000  | 0.0181      | 0.0200       | -9.4  | 20.0   |
| Ethylbenzene                | Ave        | 0.5379  | 0.4957 |         | 0.0184      | 0.0200       | -7.8  | 20.0   |
| 1,1,1,2-Tetrachloroethane   | Ave        | 0.3342  | 0.3050 |         | 0.0183      | 0.0200       | -8.7  | 20.0   |
| m-Xylene & p-Xylene         | Ave        | 0.6805  | 0.6179 |         | 0.0182      | 0.0200       | -9.2  | 20.0   |
| o-Xylene                    | Ave        | 0.6482  | 0.5857 |         | 0.0181      | 0.0200       | -9.6  | 20.0   |
| Styrene                     | Ave        | 1.110   | 1.017  | 0.3000  | 0.0183      | 0.0200       | -8.4  | 20.0   |
| Bromoform                   | Ave        | 0.2529  | 0.2173 | 0.1000  | 0.0172      | 0.0200       | -14.1 | 20.0   |
| Isopropylbenzene            | Ave        | 1.670   | 1.535  | 0.1000  | 0.0184      | 0.0200       | -8.1  | 20.0   |
| Bromobenzene                | Ave        | 0.7857  | 0.7205 |         | 0.0183      | 0.0200       | -8.3  | 20.0   |
| 1,1,2,2-Tetrachloroethane   | Ave        | 0.9796  | 0.9021 | 0.3000  | 0.0184      | 0.0200       | -7.9  | 20.0   |
| n-Propylbenzene             | Ave        | 0.8769  | 0.8324 |         | 0.0190      | 0.0200       | -5.1  | 20.0   |
| 1,2,3-Trichloropropane      | Ave        | 0.3516  | 0.3140 |         | 0.0179      | 0.0200       | -10.7 | 20.0   |
| trans-1,4-Dichloro-2-butene | Ave        | 0.3960  | 0.3622 |         | 0.0183      | 0.0200       | -8.6  | 20.0   |
| 2-Chlorotoluene             | Ave        | 0.7409  | 0.7072 |         | 0.0191      | 0.0200       | -4.5  | 20.0   |
| 1,3,5-Trimethylbenzene      | Ave        | 2.605   | 2.477  |         | 0.0190      | 0.0200       | -4.9  | 20.0   |
| 4-Chlorotoluene             | Ave        | 0.7929  | 0.7512 |         | 0.0189      | 0.0200       | -5.3  | 20.0   |
| tert-Butylbenzene           | Ave        | 2.197   | 2.074  |         | 0.0189      | 0.0200       | -5.6  | 20.0   |
| 1,2,4-Trimethylbenzene      | Ave        | 2.659   | 2.521  |         | 0.0190      | 0.0200       | -5.2  | 20.0   |
| sec-Butylbenzene            | Ave        | 0.6440  | 0.6219 |         | 0.0193      | 0.0200       | -3.4  | 20.0   |
| 1,3-Dichlorobenzene         | Ave        | 1.464   | 1.374  | 0.6000  | 0.0188      | 0.0200       | -6.1  | 20.0   |
| p-Isopropyltoluene          | Ave        | 2.692   | 2.577  |         | 0.0191      | 0.0200       | -4.3  | 20.0   |
| 1,4-Dichlorobenzene         | Ave        | 1.499   | 1.419  | 0.5000  | 0.0189      | 0.0200       | -5.3  | 20.0   |
| n-Butylbenzene              | Ave        | 2.276   | 2.185  |         | 0.0192      | 0.0200       | -4.0  | 20.0   |
| 1,2-Dichlorobenzene         | Ave        | 1.383   | 1.303  | 0.4000  | 0.0188      | 0.0200       | -5.8  | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCVIS 240-520596/3 Calibration Date: 03/23/2022 09:49  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000747.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        | 0.3090  | 0.2698 | 0.0500  | 0.0175      | 0.0200       | -12.7 | 50.0   |
| 1,2,4-Trichlorobenzene       | Ave        | 0.8158  | 0.7456 | 0.2000  | 0.0183      | 0.0200       | -8.6  | 50.0   |
| Hexachlorobutadiene          | Ave        | 0.3467  | 0.3204 |         | 0.0185      | 0.0200       | -7.6  | 50.0   |
| Naphthalene                  | Ave        | 2.649   | 2.389  |         | 0.0180      | 0.0200       | -9.8  | 50.0   |
| 1,2,3-Trichlorobenzene       | Ave        | 0.7728  | 0.7016 |         | 0.0182      | 0.0200       | -9.2  | 20.0   |
| Dibromofluoromethane (Surr)  | Ave        | 0.2333  | 0.2266 |         | 0.0218      | 0.0225       | -2.8  | 20.0   |
| 1,2-Dichloroethane-d4 (Surr) | Ave        | 0.2976  | 0.2661 |         | 0.0201      | 0.0225       | -10.6 | 20.0   |
| Toluene-d8 (Surr)            | Ave        | 1.298   | 1.189  |         | 0.0206      | 0.0225       | -8.4  | 20.0   |
| 4-Bromofluorobenzene (Surr)  | Ave        | 0.5013  | 0.4797 |         | 0.0215      | 0.0225       | -4.3  | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCV 240-520596/4 Calibration Date: 03/23/2022 10:14  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 20:28  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 22:30  
 Lab File ID: UX000749.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        | 0.0590  | 0.0456 |         | 0.155       | 0.200        | -22.7* | 20.0   |
| Diisopropyl ether             | Ave        | 0.2206  | 0.2015 |         | 0.0183      | 0.0200       | -8.7   | 20.0   |
| 2-Chloro-1,3-butadiene        | Ave        | 0.4122  | 0.3823 |         | 0.0185      | 0.0200       | -7.3   | 20.0   |
| Ethyl-t-butyl ether (ETBE)    | Ave        | 0.7777  | 0.7165 |         | 0.0184      | 0.0200       | -7.9   | 20.0   |
| Ethyl acetate                 | Ave        | 0.3889  | 0.3461 |         | 0.0356      | 0.0400       | -11.0  | 20.0   |
| Propionitrile                 | Ave        | 0.0659  | 0.0566 |         | 0.172       | 0.200        | -14.2  | 20.0   |
| Methacrylonitrile             | Ave        | 0.2291  | 0.2053 |         | 0.179       | 0.200        | -10.4  | 20.0   |
| Tert-amyl-methyl ether (TAME) | Ave        | 0.7931  | 0.7198 |         | 0.0182      | 0.0200       | -9.2   | 20.0   |
| n-Butanol                     | Ave        | 0.0151  | 0.0121 |         | 0.400       | 0.500        | -20.0  | 20.0   |
| Ethyl acrylate                | Ave        | 0.4649  | 0.4261 |         | 0.0183      | 0.0200       | -8.3   | 20.0   |
| Methyl methacrylate           | Ave        | 0.2995  | 0.2746 |         | 0.0367      | 0.0400       | -8.3   | 20.0   |
| 2-Nitropropane                | Ave        | 0.1276  | 0.1086 |         | 0.0340      | 0.0400       | -14.9  | 20.0   |
| n-Butyl acetate               | Ave        | 0.7114  | 0.6266 |         | 0.0176      | 0.0200       | -11.9  | 20.0   |
| 1-Chlorohexane                | Ave        | 0.4860  | 0.4530 |         | 0.0186      | 0.0200       | -6.8   | 20.0   |
| Cyclohexanone                 | Ave        | 0.0457  | 0.0364 |         | 0.160       | 0.200        | -20.2* | 20.0   |
| Pentachloroethane             | Ave        | 0.0457  | 0.3437 |         | 0.301       | 0.0400       | 651.7* | 20.0   |
| 1,2,3-Trimethylbenzene        | Ave        | 2.621   | 2.462  |         | 0.0188      | 0.0200       | -6.1   | 20.0   |
| Benzyl chloride               | Ave        | 0.3788  | 0.3988 |         | 0.0211      | 0.0200       | 5.3    | 20.0   |
| 1,3,5-Trichlorobenzene        | Ave        | 0.8615  | 0.8385 |         | 0.0195      | 0.0200       | -2.7   | 20.0   |
| 2-Methylnaphthalene           | Ave        | 1.008   | 0.8841 |         | 0.0351      | 0.0400       | -12.3  | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCVIS 240-520730/3 Calibration Date: 03/24/2022 10:34  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000779.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        | 0.2978  | 0.3571 | 0.1000  | 0.0240      | 0.0200       | 19.9  | 20.0   |
| Chloromethane                            | Ave        | 0.3182  | 0.3354 | 0.1000  | 0.0211      | 0.0200       | 5.4   | 20.0   |
| Vinyl chloride                           | Ave        | 0.3251  | 0.3451 | 0.1000  | 0.0212      | 0.0200       | 6.1   | 20.0   |
| Butadiene                                | Ave        | 0.2971  | 0.3206 |         | 0.0216      | 0.0200       | 7.9   | 20.0   |
| Bromomethane                             | Ave        | 0.2290  | 0.2155 | 0.0500  | 0.0188      | 0.0200       | -5.9  | 20.0   |
| Chloroethane                             | Ave        | 0.2161  | 0.2218 | 0.0500  | 0.0205      | 0.0200       | 2.6   | 20.0   |
| Dichlorofluoromethane                    | Ave        | 0.5199  | 0.4960 |         | 0.0191      | 0.0200       | -4.6  | 20.0   |
| Trichlorofluoromethane                   | Ave        | 0.4129  | 0.4437 | 0.1000  | 0.0215      | 0.0200       | 7.5   | 20.0   |
| Ethyl ether                              | Ave        | 0.2021  | 0.1942 |         | 0.0192      | 0.0200       | -3.9  | 20.0   |
| 1,1,2-Trichloro-1,2,2-trichf luoroethane | Ave        | 0.2264  | 0.2286 | 0.0500  | 0.0202      | 0.0200       | 1.0   | 20.0   |
| Acrolein                                 | Ave        | 0.0682  | 0.0712 |         | 0.104       | 0.100        | 4.3   | 20.0   |
| 1,1-Dichloroethene                       | Ave        | 0.3618  | 0.3549 | 0.1000  | 0.0196      | 0.0200       | -1.9  | 20.0   |
| Acetone                                  | Lin1       |         | 0.0383 | 0.0100  | 0.0348      | 0.0400       | -12.9 | 50.0   |
| Iodomethane                              | Ave        | 0.2887  | 0.2909 |         | 0.0202      | 0.0200       | 0.8   | 20.0   |
| Carbon disulfide                         | Ave        | 0.6884  | 0.6814 | 0.1000  | 0.0198      | 0.0200       | -1.0  | 20.0   |
| 3-Chloro-1-propene                       | Ave        | 0.3999  | 0.3880 |         | 0.0194      | 0.0200       | -3.0  | 20.0   |
| Methyl acetate                           | Ave        | 0.3182  | 0.2784 | 0.1000  | 0.0350      | 0.0400       | -12.5 | 50.0   |
| Methylene Chloride                       | Ave        | 0.3290  | 0.3123 | 0.1000  | 0.0190      | 0.0200       | -5.1  | 50.0   |
| tert-Butyl alcohol                       | Ave        | 0.0642  | 0.0552 |         | 0.172       | 0.200        | -14.0 | 20.0   |
| Methyl tert-butyl ether                  | Ave        | 0.7977  | 0.7587 | 0.1000  | 0.0190      | 0.0200       | -4.9  | 20.0   |
| trans-1,2-Dichloroethene                 | Ave        | 0.3550  | 0.3383 | 0.1000  | 0.0191      | 0.0200       | -4.7  | 20.0   |
| Acrylonitrile                            | Ave        | 0.1544  | 0.1469 |         | 0.190       | 0.200        | -4.8  | 20.0   |
| Hexane                                   | Ave        | 0.3320  | 0.3441 |         | 0.0207      | 0.0200       | 3.6   | 20.0   |
| 1,1-Dichloroethane                       | Ave        | 0.4604  | 0.4423 | 0.2000  | 0.0192      | 0.0200       | -3.9  | 20.0   |
| Vinyl acetate                            | Ave        | 0.5240  | 0.6249 |         | 0.0238      | 0.0200       | 19.2  | 20.0   |
| 2,2-Dichloropropane                      | Ave        | 0.4170  | 0.4124 |         | 0.0198      | 0.0200       | -1.1  | 20.0   |
| cis-1,2-Dichloroethene                   | Ave        | 0.2818  | 0.2728 | 0.1000  | 0.0194      | 0.0200       | -3.2  | 20.0   |
| 2-Butanone                               | Ave        | 0.0617  | 0.0572 | 0.0100  | 0.0371      | 0.0400       | -7.3  | 50.0   |
| Bromochloromethane                       | Ave        | 0.2102  | 0.2093 |         | 0.0199      | 0.0200       | -0.5  | 20.0   |
| Tetrahydrofuran                          | Ave        | 0.1485  | 0.1357 |         | 0.0366      | 0.0400       | -8.6  | 20.0   |
| Chloroform                               | Ave        | 0.4513  | 0.4308 | 0.2000  | 0.0191      | 0.0200       | -4.5  | 20.0   |
| Cyclohexane                              | Ave        | 0.3969  | 0.3993 | 0.1000  | 0.0201      | 0.0200       | 0.6   | 20.0   |
| 1,1,1-Trichloroethane                    | Ave        | 0.4061  | 0.3914 | 0.1000  | 0.0193      | 0.0200       | -3.6  | 20.0   |
| Carbon tetrachloride                     | Ave        | 0.3366  | 0.3196 | 0.1000  | 0.0190      | 0.0200       | -5.0  | 20.0   |
| 1,1-Dichloropropene                      | Ave        | 0.3684  | 0.3606 |         | 0.0196      | 0.0200       | -2.1  | 20.0   |
| Isobutyl alcohol                         | Ave        | 0.0180  | 0.0162 |         | 0.449       | 0.500        | -10.3 | 20.0   |
| Benzene                                  | Ave        | 1.074   | 1.037  | 0.5000  | 0.0193      | 0.0200       | -3.5  | 20.0   |
| 1,2-Dichloroethane                       | Ave        | 0.3597  | 0.3409 | 0.1000  | 0.0190      | 0.0200       | -5.2  | 20.0   |
| n-Heptane                                | Ave        | 0.1953  | 0.1887 |         | 0.0193      | 0.0200       | -3.4  | 20.0   |
| Trichloroethene                          | Ave        | 0.2794  | 0.2677 | 0.1500  | 0.0192      | 0.0200       | -4.2  | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCVIS 240-520730/3 Calibration Date: 03/24/2022 10:34  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000779.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        | 0.4055  | 0.4071 | 0.1000  | 0.0201      | 0.0200       | 0.4   | 20.0   |
| 1,2-Dichloropropane         | Ave        | 0.2587  | 0.2509 | 0.1000  | 0.0194      | 0.0200       | -3.0  | 20.0   |
| 1,4-Dioxane                 | Ave        | 0.0051  | 0.0045 |         | 0.351       | 0.400        | -12.3 | 50.0   |
| Dibromomethane              | Ave        | 0.1701  | 0.1610 |         | 0.0189      | 0.0200       | -5.4  | 20.0   |
| Bromodichloromethane        | Ave        | 0.3359  | 0.3217 | 0.1500  | 0.0192      | 0.0200       | -4.2  | 20.0   |
| 2-Chloroethyl vinyl ether   | Ave        | 0.2072  | 0.2028 |         | 0.0392      | 0.0400       | -2.1  | 20.0   |
| cis-1,3-Dichloropropene     | Ave        | 0.4370  | 0.4252 | 0.1500  | 0.0195      | 0.0200       | -2.7  | 50.0   |
| 4-Methyl-2-pentanone        | Ave        | 0.3982  | 0.3843 | 0.0500  | 0.0386      | 0.0400       | -3.5  | 50.0   |
| Toluene                     | Ave        | 1.577   | 1.492  | 0.4000  | 0.0189      | 0.0200       | -5.4  | 20.0   |
| trans-1,3-Dichloropropene   | Ave        | 0.5503  | 0.5211 | 0.1000  | 0.0189      | 0.0200       | -5.3  | 20.0   |
| Ethyl methacrylate          | Ave        | 0.5487  | 0.5172 |         | 0.0189      | 0.0200       | -5.7  | 20.0   |
| 1,1,2-Trichloroethane       | Ave        | 0.3183  | 0.3004 | 0.1000  | 0.0189      | 0.0200       | -5.6  | 20.0   |
| Tetrachloroethene           | Ave        | 0.3614  | 0.3520 | 0.1500  | 0.0195      | 0.0200       | -2.6  | 20.0   |
| 1,3-Dichloropropane         | Ave        | 0.5744  | 0.5410 |         | 0.0188      | 0.0200       | -5.8  | 20.0   |
| 2-Hexanone                  | Ave        | 0.4204  | 0.3976 | 0.0500  | 0.0378      | 0.0400       | -5.4  | 50.0   |
| Dibromochloromethane        | Ave        | 0.3324  | 0.3007 |         | 0.0181      | 0.0200       | -9.6  | 20.0   |
| 1,2-Dibromoethane           | Ave        | 0.3439  | 0.3249 |         | 0.0189      | 0.0200       | -5.5  | 20.0   |
| Chlorobenzene               | Ave        | 0.9772  | 0.9328 | 0.3000  | 0.0191      | 0.0200       | -4.5  | 20.0   |
| Ethylbenzene                | Ave        | 0.5379  | 0.5254 |         | 0.0195      | 0.0200       | -2.3  | 20.0   |
| 1,1,1,2-Tetrachloroethane   | Ave        | 0.3342  | 0.3198 |         | 0.0191      | 0.0200       | -4.3  | 20.0   |
| m-Xylene & p-Xylene         | Ave        | 0.6805  | 0.6465 |         | 0.0190      | 0.0200       | -5.0  | 20.0   |
| o-Xylene                    | Ave        | 0.6482  | 0.6222 |         | 0.0192      | 0.0200       | -4.0  | 20.0   |
| Styrene                     | Ave        | 1.110   | 1.087  | 0.3000  | 0.0196      | 0.0200       | -2.0  | 20.0   |
| Bromoform                   | Ave        | 0.2529  | 0.2171 | 0.1000  | 0.0172      | 0.0200       | -14.2 | 20.0   |
| Isopropylbenzene            | Ave        | 1.670   | 1.628  | 0.1000  | 0.0195      | 0.0200       | -2.5  | 20.0   |
| Bromobenzene                | Ave        | 0.7857  | 0.7431 |         | 0.0189      | 0.0200       | -5.4  | 20.0   |
| 1,1,2,2-Tetrachloroethane   | Ave        | 0.9796  | 0.9195 | 0.3000  | 0.0188      | 0.0200       | -6.1  | 20.0   |
| n-Propylbenzene             | Ave        | 0.8769  | 0.8414 |         | 0.0192      | 0.0200       | -4.1  | 20.0   |
| 1,2,3-Trichloropropane      | Ave        | 0.3516  | 0.3215 |         | 0.0183      | 0.0200       | -8.5  | 20.0   |
| trans-1,4-Dichloro-2-butene | Ave        | 0.3960  | 0.3767 |         | 0.0190      | 0.0200       | -4.9  | 20.0   |
| 2-Chlorotoluene             | Ave        | 0.7409  | 0.7260 |         | 0.0196      | 0.0200       | -2.0  | 20.0   |
| 1,3,5-Trimethylbenzene      | Ave        | 2.605   | 2.529  |         | 0.0194      | 0.0200       | -2.9  | 20.0   |
| 4-Chlorotoluene             | Ave        | 0.7929  | 0.7674 |         | 0.0194      | 0.0200       | -3.2  | 20.0   |
| tert-Butylbenzene           | Ave        | 2.197   | 2.115  |         | 0.0193      | 0.0200       | -3.7  | 20.0   |
| 1,2,4-Trimethylbenzene      | Ave        | 2.659   | 2.572  |         | 0.0194      | 0.0200       | -3.2  | 20.0   |
| sec-Butylbenzene            | Ave        | 0.6440  | 0.6352 |         | 0.0197      | 0.0200       | -1.4  | 20.0   |
| 1,3-Dichlorobenzene         | Ave        | 1.464   | 1.412  | 0.6000  | 0.0193      | 0.0200       | -3.5  | 20.0   |
| p-Isopropyltoluene          | Ave        | 2.692   | 2.620  |         | 0.0195      | 0.0200       | -2.7  | 20.0   |
| 1,4-Dichlorobenzene         | Ave        | 1.499   | 1.430  | 0.5000  | 0.0191      | 0.0200       | -4.6  | 20.0   |
| n-Butylbenzene              | Ave        | 2.276   | 2.236  |         | 0.0196      | 0.0200       | -1.8  | 20.0   |
| 1,2-Dichlorobenzene         | Ave        | 1.383   | 1.311  | 0.4000  | 0.0190      | 0.0200       | -5.2  | 20.0   |



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCVIS 240-520730/3 Calibration Date: 03/24/2022 10:34  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 16:23  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 18:50  
 Lab File ID: UX000779.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        | 0.3090  | 0.2695 | 0.0500  | 0.0174      | 0.0200       | -12.8 | 50.0   |
| 1,2,4-Trichlorobenzene       | Ave        | 0.8158  | 0.7633 | 0.2000  | 0.0187      | 0.0200       | -6.4  | 50.0   |
| Hexachlorobutadiene          | Ave        | 0.3467  | 0.3290 |         | 0.0190      | 0.0200       | -5.1  | 50.0   |
| Naphthalene                  | Ave        | 2.649   | 2.436  |         | 0.0184      | 0.0200       | -8.0  | 50.0   |
| 1,2,3-Trichlorobenzene       | Ave        | 0.7728  | 0.7176 |         | 0.0186      | 0.0200       | -7.1  | 20.0   |
| Dibromofluoromethane (Surr)  | Ave        | 0.2333  | 0.2216 |         | 0.0213      | 0.0225       | -5.0  | 20.0   |
| 1,2-Dichloroethane-d4 (Surr) | Ave        | 0.2976  | 0.2602 |         | 0.0196      | 0.0225       | -12.6 | 20.0   |
| Toluene-d8 (Surr)            | Ave        | 1.298   | 1.204  |         | 0.0208      | 0.0225       | -7.2  | 20.0   |
| 4-Bromofluorobenzene (Surr)  | Ave        | 0.5013  | 0.4846 |         | 0.0217      | 0.0225       | -3.3  | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Lab Sample ID: CCV 240-520730/4 Calibration Date: 03/24/2022 10:59  
 Instrument ID: A3UX9 Calib Start Date: 03/21/2022 20:28  
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 03/21/2022 22:30  
 Lab File ID: UX000780.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        | 0.0590  | 0.0509 |         | 0.172       | 0.200        | -13.8  | 20.0   |
| Diisopropyl ether             | Ave        | 0.2206  | 0.2126 |         | 0.0193      | 0.0200       | -3.6   | 20.0   |
| 2-Chloro-1,3-butadiene        | Ave        | 0.4122  | 0.4069 |         | 0.0197      | 0.0200       | -1.3   | 20.0   |
| Ethyl-t-butyl ether (ETBE)    | Ave        | 0.7777  | 0.7577 |         | 0.0195      | 0.0200       | -2.6   | 20.0   |
| Ethyl acetate                 | Ave        | 0.3889  | 0.3724 |         | 0.0383      | 0.0400       | -4.2   | 20.0   |
| Propionitrile                 | Ave        | 0.0659  | 0.0629 |         | 0.191       | 0.200        | -4.5   | 20.0   |
| Methacrylonitrile             | Ave        | 0.2291  | 0.2209 |         | 0.193       | 0.200        | -3.5   | 20.0   |
| Tert-amyl-methyl ether (TAME) | Ave        | 0.7931  | 0.7706 |         | 0.0194      | 0.0200       | -2.8   | 20.0   |
| n-Butanol                     | Ave        | 0.0151  | 0.0140 |         | 0.465       | 0.500        | -6.9   | 20.0   |
| Ethyl acrylate                | Ave        | 0.4649  | 0.4483 |         | 0.0193      | 0.0200       | -3.6   | 20.0   |
| Methyl methacrylate           | Ave        | 0.2995  | 0.2943 |         | 0.0393      | 0.0400       | -1.7   | 20.0   |
| 2-Nitropropane                | Ave        | 0.1276  | 0.1171 |         | 0.0367      | 0.0400       | -8.2   | 20.0   |
| n-Butyl acetate               | Ave        | 0.7114  | 0.6750 |         | 0.0190      | 0.0200       | -5.1   | 20.0   |
| 1-Chlorohexane                | Ave        | 0.4860  | 0.4849 |         | 0.0200      | 0.0200       | -0.2   | 20.0   |
| Cyclohexanone                 | Ave        | 0.0457  | 0.0421 |         | 0.184       | 0.200        | -7.9   | 20.0   |
| Pentachloroethane             | Ave        | 0.0457  | 0.3703 |         | 0.324       | 0.0400       | 709.8* | 20.0   |
| 1,2,3-Trimethylbenzene        | Ave        | 2.621   | 2.653  |         | 0.0202      | 0.0200       | 1.2    | 20.0   |
| Benzyl chloride               | Ave        | 0.3788  | 0.4462 |         | 0.0236      | 0.0200       | 17.8   | 20.0   |
| 1,3,5-Trichlorobenzene        | Ave        | 0.8615  | 0.8911 |         | 0.0207      | 0.0200       | 3.4    | 20.0   |
| 2-Methylnaphthalene           | Ave        | 1.008   | 0.9404 |         | 0.0373      | 0.0400       | -6.7   | 20.0   |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520596/8  
 Matrix: Water Lab File ID: UX000753.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 11:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520596/8  
 Matrix: Water Lab File ID: UX000753.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 11:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520596/8  
 Matrix: Water Lab File ID: UX000753.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 11:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 101  |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 104  |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 97   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520596/8  
 Matrix: Water Lab File ID: UX000753.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 11:52  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 520596 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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520730/9  
 Matrix: Water Lab File ID: UX000785.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:01  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 10     | U | 10  | 5.4  |
| 71-43-2    | Benzene                     | 1.0    | U | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 1.0    | U | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 1.0    | U | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 1.0    | U | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 1.0    | U | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 10     | U | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 1.0    | U | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 1.0    | U | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 1.0    | U | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 10     | U | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 1.0    | U | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 1.0    | U | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 1.0    | U | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 1.0    | U | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 1.0    | U | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1.0    | U | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 1.0    | U | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 2.0    | U | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 1.0    | U | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 1.0    | U | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 1.0    | U | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 1.0    | U | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 1.0    | U | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 1.0    | U | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 1.0    | U | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 1.0    | U | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 1.0    | U | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 1.0    | U | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 1.0    | U | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 1.0    | U | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 1.0    | U | 1.0 | 0.36 |
| 108-20-3   | Diisopropyl ether           | 10     | U | 10  | 0.17 |
| 100-41-4   | Ethylbenzene                | 1.0    | U | 1.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520730/9  
 Matrix: Water Lab File ID: UX000785.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:01  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 637-92-3    | Ethyl-t-butyl ether (ETBE)            | 5.0    | U | 5.0 | 0.40 |
| 87-68-3     | Hexachlorobutadiene                   | 1.0    | U | 1.0 | 0.83 |
| 591-78-6    | 2-Hexanone                            | 10     | U | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 1.0    | U | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 5.0    | U | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 10     | U | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 1.0    | U | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 2.0    | U | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 1.0    | U | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 1.0    | U | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 1.0    | U | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 1.0    | U | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 1.0    | U | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 1.0    | U | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 1.0    | U | 1.0 | 0.45 |
| 994-05-8    | Tert-amyl-methyl ether (TAME)         | 5.0    | U | 5.0 | 0.43 |
| 75-65-0     | tert-Butyl alcohol                    | 40     | U | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 1.0    | U | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 1.0    | U | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 1.0    | U | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 1.0    | U | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 1.0    | U | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 1.0    | U | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 1.0    | U | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 1.0    | U | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 1.0    | U | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 1.0    | U | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 1.0    | U | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 1.0    | U | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 1.0    | U | 1.0 | 0.41 |
| 526-73-8    | 1,2,3-Trimethylbenzene                | 5.0    | U | 5.0 | 0.31 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 1.0    | U | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 2.0    | U | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 1.0    | U | 1.0 | 0.45 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520730/9  
 Matrix: Water Lab File ID: UX000785.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:01  
 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.: 520730 Units: ug/L

| CAS NO.   | COMPOUND NAME  | RESULT | Q | RL  | MDL  |
|-----------|----------------|--------|---|-----|------|
| 1330-20-7 | Xylenes, Total | 2.0    | U | 2.0 | 0.42 |

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 98   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |

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

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 240-520730/9  
 Matrix: Water Lab File ID: UX000785.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 13:01  
 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.: 520730 Units: ug/L  
 Number TICs Found: 1 TIC Result Total: 0.524

| CAS NO.  | COMPOUND NAME                   | RT   | RESULT | Q | MATCH QUALITY |
|----------|---------------------------------|------|--------|---|---------------|
|          | Tentatively Identified Compound |      | None   |   |               |
| 109-99-9 | Tetrahydrofuran                 | 4.71 | 0.524  | J | 86%           |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 240-520596/5  
 Matrix: Water Lab File ID: UX000750.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 10:38  
 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.: 520596 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 40.7   |   | 10  | 5.4  |
| 71-43-2    | Benzene                     | 22.6   |   | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 22.4   |   | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 22.7   |   | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 22.6   |   | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 21.4   |   | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 19.6   |   | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 41.3   |   | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 23.8   |   | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 22.1   |   | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 22.0   |   | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 20.3   |   | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 22.9   |   | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 22.3   |   | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 20.5   |   | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 22.6   |   | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 22.8   |   | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 22.5   |   | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 22.3   |   | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 21.6   |   | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 20.5   |   | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 22.0   |   | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 22.7   |   | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 22.6   |   | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 22.4   |   | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 22.6   |   | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 22.4   |   | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 22.1   |   | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 22.4   |   | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 23.7   |   | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 22.7   |   | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 22.3   |   | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 22.5   |   | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 22.4   |   | 1.0 | 0.36 |
| 100-41-4   | Ethylbenzene                | 22.6   |   | 1.0 | 0.42 |
| 87-68-3    | Hexachlorobutadiene         | 22.1   |   | 1.0 | 0.83 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 240-520596/5  
 Matrix: Water Lab File ID: UX000750.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 10:38  
 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.: 520596 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 591-78-6    | 2-Hexanone                            | 43.0   |   | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 22.3   |   | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 22.1   |   | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 43.7   |   | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 22.9   |   | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 22.0   |   | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 21.7   |   | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 22.4   |   | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 22.5   |   | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 22.4   |   | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 22.7   |   | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 22.9   |   | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 22.5   |   | 1.0 | 0.45 |
| 75-65-0     | tert-Butyl alcohol                    | 188    |   | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 22.3   |   | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 22.3   |   | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 22.7   |   | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 22.9   |   | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 21.7   |   | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 22.1   |   | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 22.3   |   | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 21.7   |   | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 22.1   |   | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 22.3   |   | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 22.2   |   | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 21.1   |   | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 21.5   |   | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 24.1   |   | 1.0 | 0.41 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 22.6   |   | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 26.3   |   | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 21.2   |   | 1.0 | 0.45 |
| 1330-20-7   | Xylenes, Total                        | 44.4   |   | 2.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 240-520596/5  
 Matrix: Water Lab File ID: UX000750.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/23/2022 10:38  
 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.: 520596 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 98   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 98   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 89   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 240-520730/5  
 Matrix: Water Lab File ID: UX000781.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 11:23  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 33.7   |   | 10  | 5.4  |
| 71-43-2    | Benzene                     | 19.0   |   | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 18.8   |   | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 19.2   |   | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 18.7   |   | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 17.1   |   | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 17.1   |   | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 35.2   |   | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 20.2   |   | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 18.4   |   | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 18.5   |   | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 18.3   |   | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 19.0   |   | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 18.8   |   | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 18.0   |   | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 19.1   |   | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 19.2   |   | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 19.3   |   | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 18.5   |   | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 17.5   |   | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 16.8   |   | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 18.2   |   | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 19.0   |   | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 19.0   |   | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 19.0   |   | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 18.9   |   | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 19.2   |   | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 18.6   |   | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 18.8   |   | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 20.1   |   | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 18.9   |   | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 18.4   |   | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 19.0   |   | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 19.0   |   | 1.0 | 0.36 |
| 100-41-4   | Ethylbenzene                | 18.8   |   | 1.0 | 0.42 |
| 87-68-3    | Hexachlorobutadiene         | 18.8   |   | 1.0 | 0.83 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 240-520730/5  
 Matrix: Water Lab File ID: UX000781.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 11:23  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 591-78-6    | 2-Hexanone                            | 36.4   |   | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 18.5   |   | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 18.6   |   | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 37.2   |   | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 19.0   |   | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 18.3   |   | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 18.3   |   | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 19.1   |   | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 18.7   |   | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 18.6   |   | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 19.2   |   | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 19.4   |   | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 18.6   |   | 1.0 | 0.45 |
| 75-65-0     | tert-Butyl alcohol                    | 173    |   | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 19.0   |   | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 18.4   |   | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 19.1   |   | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 18.9   |   | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 18.2   |   | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 19.2   |   | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 18.3   |   | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 18.2   |   | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 18.3   |   | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 18.8   |   | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 18.7   |   | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 18.6   |   | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 18.2   |   | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 20.6   |   | 1.0 | 0.41 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 19.1   |   | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 21.3   |   | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 18.4   |   | 1.0 | 0.45 |
| 1330-20-7   | Xylenes, Total                        | 36.9   |   | 2.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 240-520730/5  
 Matrix: Water Lab File ID: UX000781.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 11:23  
 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.: 520730 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 99   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 78-122 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 240-520730/6  
 Matrix: Water Lab File ID: UX000782.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 11:48  
 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.: 520730 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 67-64-1    | Acetone                     | 35.6   |   | 10  | 5.4  |
| 71-43-2    | Benzene                     | 20.1   |   | 1.0 | 0.42 |
| 108-86-1   | Bromobenzene                | 19.8   |   | 1.0 | 0.50 |
| 74-97-5    | Bromochloromethane          | 20.8   |   | 1.0 | 0.54 |
| 75-27-4    | Bromodichloromethane        | 19.9   |   | 1.0 | 0.17 |
| 75-25-2    | Bromoform                   | 17.9   |   | 1.0 | 0.76 |
| 74-83-9    | Bromomethane                | 18.7   |   | 1.0 | 0.42 |
| 78-93-3    | 2-Butanone                  | 37.1   |   | 10  | 1.2  |
| 75-15-0    | Carbon disulfide            | 21.1   |   | 1.0 | 0.59 |
| 56-23-5    | Carbon tetrachloride        | 19.0   |   | 1.0 | 0.26 |
| 108-90-7   | Chlorobenzene               | 19.4   |   | 1.0 | 0.38 |
| 75-00-3    | Chloroethane                | 19.4   |   | 1.0 | 0.83 |
| 110-75-8   | 2-Chloroethyl vinyl ether   | 20.1   |   | 10  | 1.5  |
| 67-66-3    | Chloroform                  | 19.7   |   | 1.0 | 0.47 |
| 74-87-3    | Chloromethane               | 19.3   |   | 1.0 | 0.63 |
| 95-49-8    | 2-Chlorotoluene             | 20.1   |   | 1.0 | 0.57 |
| 106-43-4   | 4-Chlorotoluene             | 19.9   |   | 1.0 | 0.43 |
| 156-59-2   | cis-1,2-Dichloroethene      | 20.1   |   | 1.0 | 0.46 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 19.6   |   | 1.0 | 0.61 |
| 124-48-1   | Dibromochloromethane        | 18.5   |   | 1.0 | 0.39 |
| 96-12-8    | 1,2-Dibromo-3-Chloropropane | 17.7   |   | 2.0 | 0.91 |
| 106-93-4   | 1,2-Dibromoethane           | 19.0   |   | 1.0 | 0.41 |
| 74-95-3    | Dibromomethane              | 19.7   |   | 1.0 | 0.40 |
| 95-50-1    | 1,2-Dichlorobenzene         | 20.2   |   | 1.0 | 0.48 |
| 541-73-1   | 1,3-Dichlorobenzene         | 19.9   |   | 1.0 | 0.45 |
| 106-46-7   | 1,4-Dichlorobenzene         | 19.9   |   | 1.0 | 0.41 |
| 75-71-8    | Dichlorodifluoromethane     | 19.8   |   | 1.0 | 0.35 |
| 75-34-3    | 1,1-Dichloroethane          | 19.9   |   | 1.0 | 0.47 |
| 107-06-2   | 1,2-Dichloroethane          | 20.0   |   | 1.0 | 0.21 |
| 75-35-4    | 1,1-Dichloroethene          | 20.8   |   | 1.0 | 0.49 |
| 78-87-5    | 1,2-Dichloropropane         | 20.1   |   | 1.0 | 0.47 |
| 142-28-9   | 1,3-Dichloropropane         | 19.4   |   | 1.0 | 0.21 |
| 594-20-7   | 2,2-Dichloropropane         | 19.9   |   | 1.0 | 0.78 |
| 563-58-6   | 1,1-Dichloropropene         | 19.9   |   | 1.0 | 0.36 |
| 100-41-4   | Ethylbenzene                | 19.7   |   | 1.0 | 0.42 |
| 87-68-3    | Hexachlorobutadiene         | 19.5   |   | 1.0 | 0.83 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 240-520730/6  
 Matrix: Water Lab File ID: UX000782.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 11:48  
 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.: 520730 Units: ug/L

| CAS NO.     | COMPOUND NAME                         | RESULT | Q | RL  | MDL  |
|-------------|---------------------------------------|--------|---|-----|------|
| 591-78-6    | 2-Hexanone                            | 38.4   |   | 10  | 1.1  |
| 98-82-8     | Isopropylbenzene                      | 19.5   |   | 1.0 | 0.49 |
| 75-09-2     | Methylene Chloride                    | 19.7   |   | 5.0 | 2.6  |
| 108-10-1    | 4-Methyl-2-pentanone                  | 38.8   |   | 10  | 0.99 |
| 1634-04-4   | Methyl tert-butyl ether               | 20.3   |   | 1.0 | 0.47 |
| 179601-23-1 | m-Xylene & p-Xylene                   | 19.3   |   | 2.0 | 0.42 |
| 91-20-3     | Naphthalene                           | 19.5   |   | 1.0 | 0.80 |
| 104-51-8    | n-Butylbenzene                        | 19.9   |   | 1.0 | 0.60 |
| 103-65-1    | n-Propylbenzene                       | 20.1   |   | 1.0 | 0.57 |
| 95-47-6     | o-Xylene                              | 19.6   |   | 1.0 | 0.42 |
| 99-87-6     | p-Isopropyltoluene                    | 20.0   |   | 1.0 | 0.56 |
| 135-98-8    | sec-Butylbenzene                      | 20.2   |   | 1.0 | 0.53 |
| 100-42-5    | Styrene                               | 19.5   |   | 1.0 | 0.45 |
| 75-65-0     | tert-Butyl alcohol                    | 185    |   | 40  | 7.2  |
| 98-06-6     | tert-Butylbenzene                     | 19.9   |   | 1.0 | 0.48 |
| 630-20-6    | 1,1,1,2-Tetrachloroethane             | 19.1   |   | 1.0 | 0.43 |
| 79-34-5     | 1,1,2,2-Tetrachloroethane             | 19.9   |   | 1.0 | 0.60 |
| 127-18-4    | Tetrachloroethene                     | 19.8   |   | 1.0 | 0.44 |
| 108-88-3    | Toluene                               | 18.8   |   | 1.0 | 0.44 |
| 156-60-5    | trans-1,2-Dichloroethene              | 20.1   |   | 1.0 | 0.51 |
| 10061-02-6  | trans-1,3-Dichloropropene             | 19.2   |   | 1.0 | 0.67 |
| 87-61-6     | 1,2,3-Trichlorobenzene                | 19.4   |   | 1.0 | 0.54 |
| 120-82-1    | 1,2,4-Trichlorobenzene                | 19.5   |   | 1.0 | 0.77 |
| 71-55-6     | 1,1,1-Trichloroethane                 | 19.7   |   | 1.0 | 0.48 |
| 79-01-6     | Trichloroethene                       | 19.8   |   | 1.0 | 0.44 |
| 75-69-4     | Trichlorofluoromethane                | 19.4   |   | 1.0 | 0.45 |
| 96-18-4     | 1,2,3-Trichloropropane                | 19.1   |   | 1.0 | 0.52 |
| 76-13-1     | 1,1,2-Trichloro-1,2,2-trichloroethane | 20.9   |   | 1.0 | 0.41 |
| 95-63-6     | 1,2,4-Trimethylbenzene                | 20.2   |   | 1.0 | 0.52 |
| 108-05-4    | Vinyl acetate                         | 22.1   |   | 2.0 | 0.61 |
| 75-01-4     | Vinyl chloride                        | 19.6   |   | 1.0 | 0.45 |
| 1330-20-7   | Xylenes, Total                        | 38.9   |   | 2.0 | 0.42 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1  
 SDG No.: MSA Frog Mortar Creek  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 240-520730/6  
 Matrix: Water Lab File ID: UX000782.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 03/24/2022 11:48  
 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.: 520730 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4   | 4-Bromofluorobenzene (Surr)  | 98   |   | 56-136 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 97   |   | 73-120 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 90   |   | 62-137 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 78-122 |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 Start Date: 03/21/2022 15:34

Analysis Batch Number: 520426 End Date: 03/21/2022 22:54

| LAB SAMPLE ID            | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION FACTOR | LAB FILE ID | COLUMN ID        |
|--------------------------|------------------|------------------|-----------------|-------------|------------------|
| BFB 240-520426/1         |                  | 03/21/2022 15:34 | 1               | BFB1493.D   | DB-624 0.18 (mm) |
| STD8260 240-520426/8 IC  |                  | 03/21/2022 16:23 | 1               | UX000684.D  | DB-624 0.18 (mm) |
| STD8260 240-520426/9 IC  |                  | 03/21/2022 16:48 | 1               | UX000685.D  | DB-624 0.18 (mm) |
| STD8260 240-520426/10 IC |                  | 03/21/2022 17:12 | 1               | UX000686.D  | DB-624 0.18 (mm) |
| ICIS 240-520426/11       |                  | 03/21/2022 17:37 | 1               | UX000687.D  | DB-624 0.18 (mm) |
| STD8260 240-520426/12 IC |                  | 03/21/2022 18:01 | 1               | UX000688.D  | DB-624 0.18 (mm) |
| STD8260 240-520426/13 IC |                  | 03/21/2022 18:25 | 1               | UX000689.D  | DB-624 0.18 (mm) |
| STD8260 240-520426/14 IC |                  | 03/21/2022 18:50 | 1               | UX000690.D  | DB-624 0.18 (mm) |
| ICV 240-520426/15        |                  | 03/21/2022 19:14 | 1               | UX000691.D  | DB-624 0.18 (mm) |
| STDA9 240-520426/18 IC   |                  | 03/21/2022 20:28 | 1               | UX000694.D  | DB-624 0.18 (mm) |
| STDA9 240-520426/19 IC   |                  | 03/21/2022 20:52 | 1               | UX000695.D  | DB-624 0.18 (mm) |
| STDA9 240-520426/20 IC   |                  | 03/21/2022 21:17 | 1               | UX000696.D  | DB-624 0.18 (mm) |
| STDA9 240-520426/21 IC   |                  | 03/21/2022 21:41 | 1               | UX000697.D  | DB-624 0.18 (mm) |
| STDA9 240-520426/22 IC   |                  | 03/21/2022 22:06 | 1               | UX000698.D  | DB-624 0.18 (mm) |
| STDA9 240-520426/23 IC   |                  | 03/21/2022 22:30 | 1               | UX000699.D  | DB-624 0.18 (mm) |
| ICV 240-520426/24        |                  | 03/21/2022 22:54 | 1               | UX000700.D  | DB-624 0.18 (mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 Start Date: 03/23/2022 09:25

Analysis Batch Number: 520596 End Date: 03/23/2022 20:51

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION FACTOR | LAB FILE ID | COLUMN ID        |
|--------------------|------------------|------------------|-----------------|-------------|------------------|
| BFB 240-520596/1   |                  | 03/23/2022 09:25 | 1               | BFB1495.D   | DB-624 0.18 (mm) |
| CCVIS 240-520596/3 |                  | 03/23/2022 09:49 | 1               | UX000747.D  | DB-624 0.18 (mm) |
| CCV 240-520596/4   |                  | 03/23/2022 10:14 | 1               | UX000749.D  | DB-624 0.18 (mm) |
| LCS 240-520596/5   |                  | 03/23/2022 10:38 | 1               | UX000750.D  | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/23/2022 11:03 | 1               |             | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/23/2022 11:27 | 1               |             | DB-624 0.18 (mm) |
| MB 240-520596/8    |                  | 03/23/2022 11:52 | 1               | UX000753.D  | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/23/2022 12:16 | 1               |             | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/23/2022 12:41 | 1               |             | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/23/2022 13:06 | 1               |             | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/23/2022 13:30 | 1               |             | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/23/2022 13:54 | 2               |             | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/23/2022 14:19 | 33.33           |             | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/23/2022 14:43 | 1               |             | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/23/2022 15:08 | 5               |             | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/23/2022 15:32 | 5               |             | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/23/2022 15:57 | 5               |             | DB-624 0.18 (mm) |
| 240-163634-6       | MSA-SW37C-031122 | 03/23/2022 16:22 | 1               | UX000764.D  | DB-624 0.18 (mm) |
| 240-163634-7       | MSA-SW37D-031122 | 03/23/2022 16:46 | 1               | UX000765.D  | DB-624 0.18 (mm) |
| 240-163634-8       | MSA-SW38A-031122 | 03/23/2022 17:11 | 1               | UX000766.D  | DB-624 0.18 (mm) |
| 240-163634-9       | MSA-SW38B-031122 | 03/23/2022 17:35 | 1               | UX000767.D  | DB-624 0.18 (mm) |
| 240-163634-10      | MSA-SW38C-031122 | 03/23/2022 17:59 | 1               | UX000768.D  | DB-624 0.18 (mm) |
| 240-163634-11      | MSA-SW38D-031122 | 03/23/2022 18:24 | 1               | UX000769.D  | DB-624 0.18 (mm) |
| 240-163634-12      | MSA-SW40A-031122 | 03/23/2022 18:48 | 1               | UX000770.D  | DB-624 0.18 (mm) |
| 240-163634-13      | MSA-SW40B-031122 | 03/23/2022 19:13 | 1               | UX000771.D  | DB-624 0.18 (mm) |
| 240-163634-14      | MSA-SW40C-031122 | 03/23/2022 19:37 | 1               | UX000772.D  | DB-624 0.18 (mm) |
| 240-163634-15      | MSA-SW40D-031122 | 03/23/2022 20:02 | 1               | UX000773.D  | DB-624 0.18 (mm) |
| 240-163634-16      | MSA-SW41A-031122 | 03/23/2022 20:26 | 1               | UX000774.D  | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/23/2022 20:51 | 1               |             | DB-624 0.18 (mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Instrument ID: A3UX9 Start Date: 03/24/2022 10:10

Analysis Batch Number: 520730 End Date: 03/24/2022 21:11

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION FACTOR | LAB FILE ID | COLUMN ID        |
|--------------------|------------------|------------------|-----------------|-------------|------------------|
| BFB 240-520730/1   |                  | 03/24/2022 10:10 | 1               | BFB1496.D   | DB-624 0.18 (mm) |
| CCVIS 240-520730/3 |                  | 03/24/2022 10:34 | 1               | UX000779.D  | DB-624 0.18 (mm) |
| CCV 240-520730/4   |                  | 03/24/2022 10:59 | 1               | UX000780.D  | DB-624 0.18 (mm) |
| LCS 240-520730/5   |                  | 03/24/2022 11:23 | 1               | UX000781.D  | DB-624 0.18 (mm) |
| LCSD 240-520730/6  |                  | 03/24/2022 11:48 | 1               | UX000782.D  | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/24/2022 12:12 | 1               |             | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/24/2022 12:37 | 1               |             | DB-624 0.18 (mm) |
| MB 240-520730/9    |                  | 03/24/2022 13:01 | 1               | UX000785.D  | DB-624 0.18 (mm) |
| ZZZZZ              |                  | 03/24/2022 13:26 | 1               |             | DB-624 0.18 (mm) |
| 240-163634-4       | MSA-SW37A-031122 | 03/24/2022 13:50 | 1               | UX000787.D  | DB-624 0.18 (mm) |
| 240-163634-5       | MSA-SW37B-031122 | 03/24/2022 14:15 | 1               | UX000788.D  | DB-624 0.18 (mm) |
| 240-163634-17      | MSA-SW41B-031122 | 03/24/2022 14:39 | 1               | UX000789.D  | DB-624 0.18 (mm) |
| 240-163634-18      | MSA-SW41C-031122 | 03/24/2022 15:04 | 1               | UX000790.D  | DB-624 0.18 (mm) |
| 240-163634-19      | MSA-SW41D-031122 | 03/24/2022 15:28 | 1               | UX000791.D  | DB-624 0.18 (mm) |
| 240-163634-20      | MSA-SW42A-031122 | 03/24/2022 15:53 | 1               | UX000792.D  | DB-624 0.18 (mm) |
| 240-163634-21      | MSA-SW42B-031122 | 03/24/2022 16:17 | 1               | UX000793.D  | DB-624 0.18 (mm) |
| 240-163634-22      | MSA-SW42C-031122 | 03/24/2022 16:42 | 1               | UX000794.D  | DB-624 0.18 (mm) |
| 240-163634-23      | MSA-SW42D-031122 | 03/24/2022 17:06 | 1               | UX000795.D  | DB-624 0.18 (mm) |
| 240-163634-24      | MSA-SW43A-031122 | 03/24/2022 17:31 | 1               | UX000796.D  | DB-624 0.18 (mm) |
| 240-163634-25      | MSA-SW43B-031122 | 03/24/2022 17:55 | 1               | UX000797.D  | DB-624 0.18 (mm) |
| 240-163634-26      | MSA-SW43C-031122 | 03/24/2022 18:20 | 1               | UX000798.D  | DB-624 0.18 (mm) |
| 240-163634-27      | MSA-SW43D-031122 | 03/24/2022 18:44 | 1               | UX000799.D  | DB-624 0.18 (mm) |
| 240-163634-28      | TB-031122        | 03/24/2022 19:09 | 1               | UX000800.D  | DB-624 0.18 (mm) |
| 240-163634-29      | MSA-SW46A-031122 | 03/24/2022 19:33 | 1               | UX000801.D  | DB-624 0.18 (mm) |
| 240-163634-30      | MSA-SW47A-031122 | 03/24/2022 19:58 | 1               | UX000802.D  | DB-624 0.18 (mm) |
| 240-163634-31      | MSA-SW48A-031122 | 03/24/2022 20:22 | 1               | UX000803.D  | DB-624 0.18 (mm) |
| 240-163634-32      | MSA-SW49A-031122 | 03/24/2022 20:47 | 1               | UX000804.D  | DB-624 0.18 (mm) |
| 240-163634-33      | MSA-SWEQB-031122 | 03/24/2022 21:11 | 1               | UX000805.D  | DB-624 0.18 (mm) |

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520426 Batch Start Date: 03/21/22 15:34 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID               | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | vm50is_stk_A<br>00010 | vm50ss 00468 | vm50ss_stk<br>00090 | vmarolistdw<br>00429 |
|-----------------------------|------------------|--------------|-------|---------------|-------------|-----------------------|--------------|---------------------|----------------------|
| BFB<br>240-520426/1         |                  | 8260C        |       | 5 mL          | 5 mL        |                       |              |                     |                      |
| STD8260<br>240-520426/8 IC  |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  | 0.4 uL       |                     | 0.4 uL               |
| STD8260<br>240-520426/9 IC  |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  | 0.8 uL       |                     | 0.8 uL               |
| STD8260<br>240-520426/10 IC |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  | 8 uL         |                     | 8 uL                 |
| ICIS<br>240-520426/11       |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  | 16 uL        |                     | 16 uL                |
| STD8260<br>240-520426/12 IC |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  | 24 uL        |                     | 24 uL                |
| STD8260<br>240-520426/13 IC |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  | 32 uL        |                     | 32 uL                |
| STD8260<br>240-520426/14 IC |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  | 48 uL        |                     | 48 uL                |
| ICV<br>240-520426/15        |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              | 2 uL                |                      |
| STDA9<br>240-520426/18 IC   |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              |                     |                      |
| STDA9<br>240-520426/19 IC   |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              |                     |                      |
| STDA9<br>240-520426/20 IC   |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              |                     |                      |
| STDA9<br>240-520426/21 IC   |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              |                     |                      |
| STDA9<br>240-520426/22 IC   |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              |                     |                      |
| STDA9<br>240-520426/23 IC   |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              |                     |                      |
| ICV<br>240-520426/24        |                  | 8260C        |       | 5 mL          | 5 mL        | 2 uL                  |              |                     |                      |

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520426 Batch Start Date: 03/21/22 15:34 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID               | Client Sample ID | Method Chain | Basis | vmbfb 00029 | vmfasa9w 00352 | vmfasaw 00410 | vmfasgw 00446 | vmfaspw 00436 | vmra9w 00428 |
|-----------------------------|------------------|--------------|-------|-------------|----------------|---------------|---------------|---------------|--------------|
| BFB<br>240-520426/1         |                  | 8260C        |       | 1 uL        |                |               |               |               |              |
| STD8260<br>240-520426/8 IC  |                  | 8260C        |       |             |                |               |               |               |              |
| STD8260<br>240-520426/9 IC  |                  | 8260C        |       |             |                |               |               |               |              |
| STD8260<br>240-520426/10 IC |                  | 8260C        |       |             |                |               |               |               |              |
| ICIS<br>240-520426/11       |                  | 8260C        |       |             |                |               |               |               |              |
| STD8260<br>240-520426/12 IC |                  | 8260C        |       |             |                |               |               |               |              |
| STD8260<br>240-520426/13 IC |                  | 8260C        |       |             |                |               |               |               |              |
| STD8260<br>240-520426/14 IC |                  | 8260C        |       |             |                |               |               |               |              |
| ICV<br>240-520426/15        |                  | 8260C        |       |             |                | 16 uL         | 16 uL         | 16 uL         |              |
| STDA9<br>240-520426/18 IC   |                  | 8260C        |       |             |                |               |               |               | 0.4 uL       |
| STDA9<br>240-520426/19 IC   |                  | 8260C        |       |             |                |               |               |               | 0.8 uL       |
| STDA9<br>240-520426/20 IC   |                  | 8260C        |       |             |                |               |               |               | 8 uL         |
| STDA9<br>240-520426/21 IC   |                  | 8260C        |       |             |                |               |               |               | 16 uL        |
| STDA9<br>240-520426/22 IC   |                  | 8260C        |       |             |                |               |               |               | 32 uL        |
| STDA9<br>240-520426/23 IC   |                  | 8260C        |       |             |                |               |               |               | 48 uL        |
| ICV<br>240-520426/24        |                  | 8260C        |       |             | 16 uL          |               |               |               |              |

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.



GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520426 Batch Start Date: 03/21/22 15:34 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID               | Client Sample ID | Method Chain | Basis | vmrgas 00419 | vmrprimw 00473 |  |  |  |  |
|-----------------------------|------------------|--------------|-------|--------------|----------------|--|--|--|--|
| BFB<br>240-520426/1         |                  | 8260C        |       |              |                |  |  |  |  |
| STD8260<br>240-520426/8 IC  |                  | 8260C        |       | 0.4 uL       | 0.4 uL         |  |  |  |  |
| STD8260<br>240-520426/9 IC  |                  | 8260C        |       | 0.8 uL       | 0.8 uL         |  |  |  |  |
| STD8260<br>240-520426/10 IC |                  | 8260C        |       | 8 uL         | 8 uL           |  |  |  |  |
| ICIS<br>240-520426/11       |                  | 8260C        |       | 16 uL        | 16 uL          |  |  |  |  |
| STD8260<br>240-520426/12 IC |                  | 8260C        |       | 24 uL        | 24 uL          |  |  |  |  |
| STD8260<br>240-520426/13 IC |                  | 8260C        |       | 32 uL        | 32 uL          |  |  |  |  |
| STD8260<br>240-520426/14 IC |                  | 8260C        |       | 48 uL        | 48 uL          |  |  |  |  |
| ICV<br>240-520426/15        |                  | 8260C        |       |              |                |  |  |  |  |
| STDA9<br>240-520426/18 IC   |                  | 8260C        |       |              |                |  |  |  |  |
| STDA9<br>240-520426/19 IC   |                  | 8260C        |       |              |                |  |  |  |  |
| STDA9<br>240-520426/20 IC   |                  | 8260C        |       |              |                |  |  |  |  |
| STDA9<br>240-520426/21 IC   |                  | 8260C        |       |              |                |  |  |  |  |
| STDA9<br>240-520426/22 IC   |                  | 8260C        |       |              |                |  |  |  |  |
| STDA9<br>240-520426/23 IC   |                  | 8260C        |       |              |                |  |  |  |  |
| ICV<br>240-520426/24        |                  | 8260C        |       |              |                |  |  |  |  |

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520426 Batch Start Date: 03/21/22 15:34 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Batch Notes |  |
|-------------|--|
|             |  |

| 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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520596 Batch Start Date: 03/23/22 09:25 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | Initial pH | vm50is_stk_A<br>00010 | vm50ss_stk<br>00090 | vmarolistdw<br>00429 |
|-----------------------|------------------|--------------|-------|---------------|-------------|------------|-----------------------|---------------------|----------------------|
| BFB<br>240-520596/1   |                  | 8260C        |       | 5 mL          | 5 mL        |            |                       |                     |                      |
| CCVIS<br>240-520596/3 |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  | 2.246 uL            | 16 uL                |
| CCV<br>240-520596/4   |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  |                     |                      |
| LCS<br>240-520596/5   |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  | 2.246 uL            |                      |
| MB 240-520596/8       |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-6        | MSA-SW37C-031122 | 8260C        | T     | 5 mL          | 5 mL        | 7 SU       | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-7        | MSA-SW37D-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-8        | MSA-SW38A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-9        | MSA-SW38B-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-10       | MSA-SW38C-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-11       | MSA-SW38D-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-12       | MSA-SW40A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-13       | MSA-SW40B-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-14       | MSA-SW40C-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-15       | MSA-SW40D-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-16       | MSA-SW41A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | vmbfb 00029 | vmfasaw 00410 | vmfasgw 00447 | vmfaspw 00437 | vmra9w 00428 | vmrgas 00420 |
|-----------------------|------------------|--------------|-------|-------------|---------------|---------------|---------------|--------------|--------------|
| BFB<br>240-520596/1   |                  | 8260C        |       | 1 uL        |               |               |               |              |              |
| CCVIS<br>240-520596/3 |                  | 8260C        |       |             |               |               |               |              | 16 uL        |
| CCV<br>240-520596/4   |                  | 8260C        |       |             |               |               |               | 16 uL        |              |
| LCS<br>240-520596/5   |                  | 8260C        |       |             | 16 uL         | 16 uL         | 16 uL         |              |              |
| MB 240-520596/8       |                  | 8260C        |       |             |               |               |               |              |              |
| 240-163634-B-6        | MSA-SW37C-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-7        | MSA-SW37D-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-8        | MSA-SW38A-031122 | 8260C        | T     |             |               |               |               |              |              |

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520596 Batch Start Date: 03/23/22 09:25 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

| Lab Sample ID   | Client Sample ID | Method Chain | Basis | vmbfb 00029 | vmfasaw 00410 | vmfasgw 00447 | vmfaspw 00437 | vmra9w 00428 | vmsgas 00420 |
|-----------------|------------------|--------------|-------|-------------|---------------|---------------|---------------|--------------|--------------|
| 240-163634-B-9  | MSA-SW38B-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-10 | MSA-SW38C-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-11 | MSA-SW38D-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-12 | MSA-SW40A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-13 | MSA-SW40B-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-14 | MSA-SW40C-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-15 | MSA-SW40D-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-16 | MSA-SW41A-031122 | 8260C        | T     |             |               |               |               |              |              |

| Lab Sample ID   | Client Sample ID | Method Chain | Basis | VMRPRIMW 00474 |  |  |  |  |  |
|-----------------|------------------|--------------|-------|----------------|--|--|--|--|--|
| BFB             |                  | 8260C        |       |                |  |  |  |  |  |
| 240-520596/1    |                  |              |       |                |  |  |  |  |  |
| CCVIS           |                  | 8260C        |       | 16 uL          |  |  |  |  |  |
| 240-520596/3    |                  |              |       |                |  |  |  |  |  |
| CCV             |                  | 8260C        |       |                |  |  |  |  |  |
| 240-520596/4    |                  |              |       |                |  |  |  |  |  |
| LCS             |                  | 8260C        |       |                |  |  |  |  |  |
| 240-520596/5    |                  |              |       |                |  |  |  |  |  |
| MB 240-520596/8 |                  | 8260C        |       |                |  |  |  |  |  |
| 240-163634-B-6  | MSA-SW37C-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-7  | MSA-SW37D-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-8  | MSA-SW38A-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-9  | MSA-SW38B-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-10 | MSA-SW38C-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-11 | MSA-SW38D-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-12 | MSA-SW40A-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-13 | MSA-SW40B-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-14 | MSA-SW40C-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-15 | MSA-SW40D-031122 | 8260C        | T     |                |  |  |  |  |  |
| 240-163634-B-16 | MSA-SW41A-031122 | 8260C        | T     |                |  |  |  |  |  |

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520596 Batch Start Date: 03/23/22 09:25 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Batch Notes     |          |
|-----------------|----------|
| pH Indicator ID | HC157843 |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520730 Batch Start Date: 03/24/22 10:10 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | Initial pH | vm50is_stk_A<br>00010 | vm50ss_stk<br>00090 | vmarolistdw<br>00430 |
|-----------------------|------------------|--------------|-------|---------------|-------------|------------|-----------------------|---------------------|----------------------|
| BFB<br>240-520730/1   |                  | 8260C        |       | 5 mL          | 5 mL        |            |                       |                     |                      |
| CCVIS<br>240-520730/3 |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  | 2.246 uL            | 16 uL                |
| CCV<br>240-520730/4   |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  |                     |                      |
| LCS<br>240-520730/5   |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  | 2.246 uL            |                      |
| LCSD<br>240-520730/6  |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  | 2.246 uL            |                      |
| MB 240-520730/9       |                  | 8260C        |       | 5 mL          | 5 mL        |            | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-4        | MSA-SW37A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-5        | MSA-SW37B-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-17       | MSA-SW41B-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-18       | MSA-SW41C-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-19       | MSA-SW41D-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-20       | MSA-SW42A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-21       | MSA-SW42B-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-22       | MSA-SW42C-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-23       | MSA-SW42D-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-24       | MSA-SW43A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-25       | MSA-SW43B-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-26       | MSA-SW43C-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-27       | MSA-SW43D-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-28       | TB-031122        | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-29       | MSA-SW46A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-30       | MSA-SW47A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-31       | MSA-SW48A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-32       | MSA-SW49A-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |
| 240-163634-B-33       | MSA-SWEQB-031122 | 8260C        | T     | 5 mL          | 5 mL        | <2 SU      | 2 uL                  | 2.246 uL            |                      |

| Lab Sample ID | Client Sample ID | Method Chain | Basis | vmbfb 00029 | vmfasaw 00411 | vmfasgw 00447 | vmfaspw 00437 | vmra9w 00429 | vmrgas 00420 |
|---------------|------------------|--------------|-------|-------------|---------------|---------------|---------------|--------------|--------------|
|---------------|------------------|--------------|-------|-------------|---------------|---------------|---------------|--------------|--------------|

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520730 Batch Start Date: 03/24/22 10:10 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | vmbfb 00029 | vmfasaw 00411 | vmfasgw 00447 | vmfaspw 00437 | vmra9w 00429 | vmrgas 00420 |
|-----------------------|------------------|--------------|-------|-------------|---------------|---------------|---------------|--------------|--------------|
| BFB<br>240-520730/1   |                  | 8260C        |       | 1 uL        |               |               |               |              |              |
| CCVIS<br>240-520730/3 |                  | 8260C        |       |             |               |               |               |              | 16 uL        |
| CCV<br>240-520730/4   |                  | 8260C        |       |             |               |               |               | 16 uL        |              |
| LCS<br>240-520730/5   |                  | 8260C        |       |             | 16 uL         | 16 uL         | 16 uL         |              |              |
| LCS<br>240-520730/6   |                  | 8260C        |       |             | 16 uL         | 16 uL         | 16 uL         |              |              |
| MB 240-520730/9       |                  | 8260C        |       |             |               |               |               |              |              |
| 240-163634-B-4        | MSA-SW37A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-5        | MSA-SW37B-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-17       | MSA-SW41B-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-18       | MSA-SW41C-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-19       | MSA-SW41D-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-20       | MSA-SW42A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-21       | MSA-SW42B-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-22       | MSA-SW42C-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-23       | MSA-SW42D-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-24       | MSA-SW43A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-25       | MSA-SW43B-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-26       | MSA-SW43C-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-27       | MSA-SW43D-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-28       | TB-031122        | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-29       | MSA-SW46A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-30       | MSA-SW47A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-31       | MSA-SW48A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-32       | MSA-SW49A-031122 | 8260C        | T     |             |               |               |               |              |              |
| 240-163634-B-33       | MSA-SWEQB-031122 | 8260C        | T     |             |               |               |               |              |              |

| Lab Sample ID       | Client Sample ID | Method Chain | Basis | VMRPRIMW 00474 |  |  |  |  |  |
|---------------------|------------------|--------------|-------|----------------|--|--|--|--|--|
| BFB<br>240-520730/1 |                  | 8260C        |       |                |  |  |  |  |  |

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520730 Batch Start Date: 03/24/22 10:10 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | VMRPRIMW 00474 |  |  |  |  |
|-----------------------|------------------|--------------|-------|----------------|--|--|--|--|
| CCVIS<br>240-520730/3 |                  | 8260C        |       | 16 uL          |  |  |  |  |
| CCV<br>240-520730/4   |                  | 8260C        |       |                |  |  |  |  |
| LCS<br>240-520730/5   |                  | 8260C        |       |                |  |  |  |  |
| LCS<br>240-520730/6   |                  | 8260C        |       |                |  |  |  |  |
| MB 240-520730/9       |                  | 8260C        |       |                |  |  |  |  |
| 240-163634-B-4        | MSA-SW37A-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-5        | MSA-SW37B-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-17       | MSA-SW41B-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-18       | MSA-SW41C-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-19       | MSA-SW41D-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-20       | MSA-SW42A-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-21       | MSA-SW42B-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-22       | MSA-SW42C-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-23       | MSA-SW42D-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-24       | MSA-SW43A-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-25       | MSA-SW43B-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-26       | MSA-SW43C-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-27       | MSA-SW43D-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-28       | TB-031122        | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-29       | MSA-SW46A-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-30       | MSA-SW47A-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-31       | MSA-SW48A-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-32       | MSA-SW49A-031122 | 8260C        | T     |                |  |  |  |  |
| 240-163634-B-33       | MSA-SWEQB-031122 | 8260C        | T     |                |  |  |  |  |

| Batch Notes     |          |
|-----------------|----------|
| pH Indicator ID | HC157843 |

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.



GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Canton Job No.: 240-163634-1

SDG No.: MSA Frog Mortar Creek

Batch Number: 520730 Batch Start Date: 03/24/22 10:10 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date: \_\_\_\_\_

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

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.

# Shipping and Receiving Documents

2.3/2.1

**Baltimore #201**

CANTON  
180 S. VAN BUREN AVE  
BARBERTON, OH. 44203

**Chain of Custody Record**

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

|  |  |  |  |   |  |  |  |   |  |   |  |
|--|--|--|--|---|--|--|--|---|--|---|--|
| <b>Client Contact</b>  |  | <b>Project Manager: Josh Mullis</b>  |  | <b>Site Contact: Josh Mullis</b>  |  | <b>Date: 3/11/2022</b>   |  |   |  |   |  |
| Tel/Fax: 410-279-2700  |  | Analysis Turnaround Time   |  | Lab Contact: Roxanne Cisneros   |  | Carrier: Fedex   |  |   |  |   |  |
| Calendar (C) or Work Days (W)  |  | Sample Date  |  | Sample Time   |  | Sample Type  |  |   |  |   |  |
| <input type="checkbox"/> 2 weeks<br><input type="checkbox"/> 1 week<br><input type="checkbox"/> 2 days<br><input type="checkbox"/> 1 day |  | TAT if different from below: STANDARD  |  | Sample Matrix   |  | # of Cont.   |  |   |  |   |  |
| Project Name: MSA Surface Water Sampling<br>Site: MSA Frog Mortar Creek<br>PROJECT # 112IC09567  |  | Sample Identification  |  | Sample Type   |  | Matrix   |  |   |  |   |  |
| Tetra Tech<br>20251 Century Blvd, Suite 200<br>Germantown, MD 20874<br>(301) 528-3021 Phone<br>(301) 528-3000 FAX                        |  | MSA-SW37A-031122<br>MSA-SW37B-031122<br>MSA-SW37C-031122<br>MSA-SW37D-031122<br>MSA-SW38A-031122<br>MSA-SW38B-031122<br>MSA-SW38C-031122<br>MSA-SW38D-031122<br>MSA-SW40A-031122<br>MSA-SW40B-031122<br>MSA-SW40C-031122<br>MSA-SW40D-031122   |  | 3/11/2022<br>10:21<br>10:24<br>10:28<br>10:34<br>9:15<br>9:22<br>9:25<br>9:27<br>9:39<br>9:43<br>9:47<br>9:51 |  | SW<br>SW<br>SW<br>SW<br>SW<br>SW<br>SW<br>SW<br>SW<br>SW<br>SW<br>SW<br>SW   |  | Water<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water<br>Water |  | 3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 |  |
| VOCs + Freon 113/22 + TIC (8260C)  |  | <input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X |  | Filtered Sample   |  | <input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X<br><input type="checkbox"/> X |  | 2   |  |   |  |



Preservation Used: 1 = Ice, 2 = HCl; 3 = H2SO4; 4 = HNO3; 5 = NaOH; 6 = Other

Possible Hazard Identification  
 Non-Hazard  
 Flammable  
 Skin Irritant  
 Poison B  
 Unknown

Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  
 Disposal By Lab  
 Archive For \_\_\_\_\_ Months

|                                     |                           |                            |                        |                |                            |
|-------------------------------------|---------------------------|----------------------------|------------------------|----------------|----------------------------|
| Relinquished by: NICHOLAS EMMA GLEN | Company: TETRA TECH, INC. | Date/Time: 3/11/2022 12:40 | Received by: JM        | Company: TETRA | Date/Time: 3/11/2022 12:40 |
| Relinquished by: JM                 | Company: TETRA            | Date/Time: 3/11/2022 12:40 | Received by: Mandy-Blw | Company: TETRA | Date/Time: 3-12-22 10:00   |
| Relinquished by:                    | Company:                  | Date/Time:                 | Received by:           | Company:       | Date/Time:                 |

**Baltimore**  
**#201**

CANTON  
180 S. VAN BUREN AVE  
BARBERTON, OH, 44203

**Chain of Custody Record**

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

|  |                    |                                      |               |                                  |                        |                        |  |
|--|--------------------|--------------------------------------|---------------|----------------------------------|------------------------|------------------------|--|
| <b>Client Contact</b>  |                    | <b>Project Manager: Josh Mullis</b>  |               | <b>Site Contact: Josh Mullis</b> |                        | <b>Date: 3/11/2022</b> |  |
| Tel/Fax: 410-279-2700  |                    | Tel/Fax: 410-279-2700                |               | Lab Contact: Roxanne Cisneros    |                        | Carrier: Fedex         |  |
| Analysis Turnaround Time   |                    | Calendar (C) or Work Days (W)        |               | VOCs + Freon 113/22 + TIC (8260) |                        | Job No. 112IC09567     |  |
| <input type="checkbox"/> 2 weeks<br><input type="checkbox"/> 1 week<br><input type="checkbox"/> 2 days<br><input type="checkbox"/> 1 day |                    | TAT if different from Below STANDARD |               | Filtered Sample                  |                        | SDG No.                |  |
| <b>Sample Date</b>   | <b>Sample Time</b> | <b>Sample Type</b>                   | <b>Matrix</b> | <b># of Cont.</b>                | Sample Specific Notes: |                        |  |
| 3/11/2022  | 8:46               | SW                                   | Water         | 3                                |                        |                        |  |
| 3/11/2022  | 8:48               | SW                                   | Water         | 3                                |                        |                        |  |
| 3/11/2022  | 8:54               | SW                                   | Water         | 3                                |                        |                        |  |
| 3/11/2022  | 8:59               | SW                                   | Water         | 3                                |                        |                        |  |
| 3/11/2022  | 10:01              | SW                                   | Water         | 3                                |                        |                        |  |
| 3/11/2022  | 10:06              | SW                                   | Water         | 3                                |                        |                        |  |
| 3/11/2022  | 10:09              | SW                                   | Water         | 3                                |                        |                        |  |
| 3/11/2022  | 10:14              | SW                                   | Water         | 3                                |                        |                        |  |
| 3/11/2022  | 8:18               | SW                                   | Water         | 3                                |                        |                        |  |
| 3/11/2022  | 8:24               | SW                                   | Water         | 3                                |                        |                        |  |
| 3/11/2022  | 8:27               | SW                                   | Water         | 3                                |                        |                        |  |
| 3/11/2022  | 8:32               | SW                                   | Water         | 3                                |                        |                        |  |

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other  
 Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments:  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

|                               |                           |                          |              |
|-------------------------------|---------------------------|--------------------------|--------------|
| Relinquished by: NECHOLAS EMM | Company: Tetra Tech, Inc. | Received by: JH          | Company: EBT |
| Relinquished by: JH           | Company: EBT              | Received by: Manduly-Bud | Company: EBT |
| Relinquished by:              | Company:                  | Received by:             | Company:     |

# Baltimore #201

CANTON  
180 S. VAN BUREN AVE  
BARBERTON, OH, 44203

## Chain of Custody Record



TestAmerica Laboratories, Inc.

| <b>Client Contact</b><br>Tetra Tech<br>20251 Century Blvd, Suite 200<br>Germantown, MD 20874<br>(301) 528-3021 Phone<br>(301) 528-3000 FAX<br>Project Name: MSA Surface Water Sampling<br>Site: MSA Frog Mortar Creek<br>PROJECT # 112IC09567  |             | <b>Project Manager: Josh Mullis</b><br>Tel/Fax: 410-279-2700<br>Analysis Turnaround Time<br>Calendar (C) or Work Days (W)<br><input type="checkbox"/> 2 weeks<br><input type="checkbox"/> 1 week<br><input type="checkbox"/> 2 days<br><input type="checkbox"/> 1 day |             | <b>Site Contact: Josh Mullis</b><br>Lab Contact: Roxanne Cisneros<br>Date: 3/11/2022<br>Carrier: Fedex |           | COC No:<br>3 of 3 COCs |   |
|--|-------------|---|-------------|--|-----------|------------------------|---|
| Sample Identification  | Sample Date | Sample Time   | Sample Type | Matrix   | # of Con. | Filtered Sample        | VOCs + Freon 113/22 + TIC (8260C)                           |
| TB-031122  | 3/11/2022   | 0000  | SW          | Water  | 2         | X                      |   |
| MSA-SW46A-031122   | 3/11/2022   | 9:57  | SW          | Water  | 3         | X                      |   |
| MSA-SW47A-031122   | 3/11/2022   | 9:33  | SW          | Water  | 3         | X                      |   |
| MSA-SW48A-031122   | 3/11/2022   | 9:05  | SW          | Water  | 3         | X                      |   |
| MSA-SW49A-031122   | 3/11/2022   | 8:38  | SW          | Water  | 3         | X                      |   |
| MSA-SWEOB-031122   | 3/11/2022   | 11:30   | SW          | Water  | 3         | X                      |   |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other<br>Possible Hazard Identification<br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown |             |   |             |  |           |                        | Sample Specific Notes:<br>TRIP BLANK<br><br>EQUIPMENT BLANK |

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

|                                  |                              |                             |
|----------------------------------|------------------------------|-----------------------------|
| Relinquished by:<br>NICHOLAS EMM | Company:<br>TECRA TECH, INC. | Date/Time:<br>3/11/22 12:40 |
| Relinquished by:<br>[Signature]  | Company:<br>[Signature]      | Date/Time:<br>3/11/22 1:00  |
| Relinquished by:<br>[Signature]  | Company:<br>Mandaly Blo      | Date/Time:<br>3-12-22 10:00 |

Client Tetra Tech Site Name \_\_\_\_\_ Cooler unpacked by: Mandy Block  
 Cooler Received on 3-12-22 Opened on 3-12-22  
 FedEx: 1<sup>st</sup> Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

**Receipt After-hours: Drop-off Date/Time** \_\_\_\_\_ **Storage Location** \_\_\_\_\_

TestAmerica Cooler # TA Foam Box Client Cooler Box Other \_\_\_\_\_  
 Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_  
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt  See Multiple Cooler Form  
 IR GUN# IR-14 (CF -0.2 °C) Observed Cooler Temp 2.3 °C Corrected Cooler Temp 21 °C  
 IR GUN #IR-15 (CF -0.7°C) Observed Cooler Temp \_\_\_\_\_ °C Corrected Cooler Temp \_\_\_\_\_ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity \_\_\_\_\_ Yes No  
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA  
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No  
 -Were tamper/custody seals intact and uncompromised? Yes No NA
  3. Shippers' packing slip attached to the cooler(s)? Yes No
  4. Did custody papers accompany the sample(s)? Yes No
  5. Were the custody papers relinquished & signed in the appropriate place? Yes No
  6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
  7. Did all bottles arrive in good condition (Unbroken)? Yes No
  8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
  9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
  10. Were correct bottle(s) used for the test(s) indicated? Yes No
  11. Sufficient quantity received to perform indicated analyses? Yes No
  12. Are these work share samples and all listed on the COC? Yes No
- If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842
  14. Were VOAs on the COC? Yes No NA
  15. Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA
  16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # \_\_\_\_\_ Yes No
  17. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:  
 VOAs  
 Oil and Grease  
 TOC

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other  
 Concerning \_\_\_\_\_

**18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**  additional next page Samples processed by: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**19. 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)

**20. SAMPLE PRESERVATION**  
 Sample(s) \_\_\_\_\_ were further preserved in the laboratory.  
 Time preserved: \_\_\_\_\_ Preservative(s) added/Lot number(s): \_\_\_\_\_  
 VOA Sample Preservation - Date/Time VOAs Frozen: \_\_\_\_\_

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## APPENDIX C—CHEMICAL-RESULTS DATA TABLE

















**APPENDIX C**  
**CHEMICAL-RESULTS DATA TABLE**  
**MARCH 2022, FROG MORTAR CREEK**  
**Page 8 of 10**

| SAMPLE ID                         | MSA-SW43B-031122 | MSA-SW43C-031122 | MSA-SW43D-031122 | MSA-SW46A-031122 | MSA-SW47A-031122 | MSA-SW48A-031122 | MSA-SW49A-031122 | MSA-SWEQB-031122 |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| LAB ID                            | 240-163634-25    | 240-163634-26    | 240-163634-27    | 240-163634-29    | 240-163634-30    | 240-163634-31    | 240-163634-32    | 240-163634-33    |
| SAMPLING DATE                     | 03/11/2022       | 03/11/2022       | 03/11/2022       | 03/11/2022       | 03/11/2022       | 03/11/2022       | 03/11/2022       | 03/11/2022       |
| Volatile organic compounds (µg/L) |                  |                  |                  |                  |                  |                  |                  |                  |
| CHLORODIFLUOROMETHANE             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             | 1 UJ             |
| CHLOROETHANE                      | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           |
| CHLOROFORM                        | 0.47 U           | 0.47 U           | 0.47 U           | 0.47 U           | 0.47 U           | 0.47 U           | 0.47 U           | 0.47 U           |
| CHLOROMETHANE                     | 0.63 U           | 0.63 U           | 0.63 U           | 0.63 U           | 0.63 U           | 0.63 U           | 0.63 U           | 0.63 U           |
| CIS-1,2-DICHLOROETHENE            | 0.46 U           | 0.46 U           | 0.46 U           | 0.46 U           | 0.46 U           | 0.46 U           | 0.46 U           | 0.46 U           |
| CIS-1,3-DICHLOROPROPENE           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           |
| DIBROMOMETHANE                    | 0.4 U            | 0.4 U            | 0.4 U            | 0.4 U            | 0.4 U            | 0.4 U            | 0.4 U            | 0.4 U            |
| DICHLORODIFLUOROMETHANE           | 0.35 U           | 0.35 U           | 0.35 U           | 0.35 U           | 0.35 U           | 0.35 U           | 0.35 U           | 0.35 U           |
| DIISOPROPYL ETHER                 | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           | 0.17 U           |
| ETHYL TERT-BUTYL ETHER            | 0.4 U            | 0.4 U            | 0.4 U            | 0.4 U            | 0.4 U            | 0.4 U            | 0.4 U            | 0.4 U            |
| ETHYLBENZENE                      | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           |
| HEXACHLOROBUTADIENE               | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           | 0.83 U           |
| ISOPROPYLBENZENE                  | 0.49 U           | 0.49 U           | 0.49 U           | 0.49 U           | 0.49 U           | 0.49 U           | 0.49 U           | 0.49 U           |
| M+P-XYLENES                       | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           |
| METHYL TERT-BUTYL ETHER           | 0.47 U           | 0.47 U           | 0.47 U           | 0.47 U           | 0.47 U           | 0.47 U           | 0.47 U           | 0.47 U           |
| METHYLENE CHLORIDE                | 2.6 U            | 2.6 U            | 2.6 U            | 2.6 U            | 2.6 U            | 2.6 U            | 2.6 U            | 2.6 U            |
| NAPHTHALENE                       | 0.8 U            | 0.8 U            | 0.8 U            | 0.8 U            | 0.8 U            | 0.8 U            | 0.8 U            | 0.8 U            |
| N-BUTYLBENZENE                    | 0.6 U            | 0.6 U            | 0.6 U            | 0.6 U            | 0.6 U            | 0.6 U            | 0.6 U            | 0.6 U            |
| N-PROPYLBENZENE                   | 0.57 U           | 0.57 U           | 0.57 U           | 0.57 U           | 0.57 U           | 0.57 U           | 0.57 U           | 0.57 U           |
| O-XYLENE                          | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           |
| SEC-BUTYLBENZENE                  | 0.53 U           | 0.53 U           | 0.53 U           | 0.53 U           | 0.53 U           | 0.53 U           | 0.53 U           | 0.53 U           |
| STYRENE                           | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           |
| TERT-AMYL METHYL ETHER            | 0.43 U           | 0.43 U           | 0.43 U           | 0.43 U           | 0.43 U           | 0.43 U           | 0.43 U           | 0.43 U           |
| TERT-BUTYLBENZENE                 | 0.48 U           | 0.48 U           | 0.48 U           | 0.48 U           | 0.48 U           | 0.48 U           | 0.48 U           | 0.48 U           |
| TERTIARY-BUTYL ALCOHOL            | 7.2 U            | 7.2 U            | 7.2 U            | 7.2 U            | 7.2 U            | 7.2 U            | 7.2 U            | 7.2 U            |
| TETRACHLOROETHENE                 | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           |
| TOLUENE                           | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           |
| TOTAL XYLENES                     | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           | 0.42 U           |
| TRANS-1,2-DICHLOROETHENE          | 0.51 U           | 0.51 U           | 0.51 U           | 0.51 U           | 0.51 U           | 0.51 U           | 0.51 U           | 0.51 U           |
| TRANS-1,3-DICHLOROPROPENE         | 0.67 U           | 0.67 U           | 0.67 U           | 0.67 U           | 0.67 U           | 0.67 U           | 0.67 U           | 0.67 U           |
| TRICHLOROETHENE                   | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           | 0.44 U           |
| TRICHLOROFLUOROMETHANE            | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           |
| VINYL ACETATE                     | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           | 0.61 U           |
| VINYL CHLORIDE                    | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           | 0.45 U           |

All concentrations are in micrograms per liter (µg/L).

J - The result is an estimated value with an unknown bias. The associated numerical value is the approximate concentration of the analyte in the sample.

NJ - The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

TIC - tentatively identified compound

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.

UJ - The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.

UR - The sample result (nondetected) is unusable due to the data quality generated because certain criteria were not met. The analyte may or may not be present in the sample.

**APPENDIX C**  
**CHEMICAL-RESULTS DATA TABLE**  
**MARCH 2022, FROG MORTAR CREEK**  
Page 9 of 10

|  |               |
|--|---------------|
| SAMPLE ID                                | TB-031122     |
| LAB ID                                   | 240-163634-28 |
| SAMPLING DATE                            | 03/11/2022    |
| <b>Volatile organic compounds (µg/L)</b> |               |
| 1,1,1,2-TETRACHLOROETHANE                | 0.43 U        |
| 1,1,1-TRICHLOROETHANE                    | 0.48 U        |
| 1,1,2,2-TETRACHLOROETHANE                | 0.6 U         |
| 1,1,2-TRICHLOROTRIFLUOROETHANE           | 0.41 U        |
| 1,1-DICHLOROETHANE                       | 0.47 U        |
| 1,1-DICHLOROETHENE                       | 0.49 U        |
| 1,1-DICHLOROPROPENE                      | 0.36 U        |
| 1,2,3-TRICHLOROBENZENE                   | 0.54 U        |
| 1,2,3-TRICHLOROPROPANE                   | 0.52 U        |
| 1,2,3-TRIMETHYLBENZENE                   | 0.31 U        |
| 1,2,4-TRICHLOROBENZENE                   | 0.77 U        |
| 1,2,4-TRIMETHYLBENZENE                   | 0.52 U        |
| 1,2-DIBROMO-3-CHLOROPROPANE              | 0.91 U        |
| 1,2-DIBROMOETHANE                        | 0.41 U        |
| 1,2-DICHLOROBENZENE                      | 0.48 U        |
| 1,2-DICHLOROETHANE                       | 0.21 U        |
| 1,2-DICHLOROPROPANE                      | 0.47 U        |
| 1,3-DICHLOROBENZENE                      | 0.45 U        |
| 1,3-DICHLOROPROPANE                      | 0.21 U        |
| 1,4-DICHLOROBENZENE                      | 0.41 U        |
| 2-ETHYL-1-HEXANOL (TIC)                  |               |
| 2,2-DICHLOROPROPANE                      | 0.78 U        |
| 2-BUTANONE                               | 1.2 U         |
| 2-CHLOROETHYL VINYL ETHER                | 1.5 UR        |
| 2-CHLOROTOLUENE                          | 0.57 U        |
| 2-HEXANONE                               | 1.1 U         |
| 4-CHLOROTOLUENE                          | 0.43 U        |
| 4-ISOPROPYLTOLUENE                       | 0.56 U        |
| 4-METHYL-2-PENTANONE                     | 0.99 U        |
| ACETONE                                  | 5.4 U         |
| BENZENE                                  | 0.42 U        |
| BROMOBENZENE                             | 0.5 U         |
| BROMOCHLOROMETHANE                       | 0.54 U        |
| BROMODICHLOROMETHANE                     | 0.17 U        |
| BROMOFORM                                | 0.76 U        |
| BROMOMETHANE                             | 0.42 U        |
| CARBON DISULFIDE                         | 0.59 U        |
| CARBON TETRACHLORIDE                     | 0.26 U        |
| CHLOROBENZENE                            | 0.38 U        |
| CHLORODIBROMOMETHANE                     | 0.39 U        |



**APPENDIX C**  
**CHEMICAL-RESULTS DATA TABLE**  
**MARCH 2022, FROG MORTAR CREEK**  
**Page 10 of 10**

|  |               |
|--|---------------|
| SAMPLE ID                                | TB-031122     |
| LAB ID                                   | 240-163634-28 |
| SAMPLING DATE                            | 03/11/2022    |
| <b>Volatile organic compounds (µg/L)</b> |               |
| CHLORODIFLUOROMETHANE                    | 1 UJ          |
| CHLOROETHANE                             | 0.83 U        |
| CHLOROFORM                               | 0.47 U        |
| CHLOROMETHANE                            | 0.63 U        |
| CIS-1,2-DICHLOROETHENE                   | 0.46 U        |
| CIS-1,3-DICHLOROPROPENE                  | 0.61 U        |
| DIBROMOMETHANE                           | 0.4 U         |
| DICHLORODIFLUOROMETHANE                  | 0.35 U        |
| DIISOPROPYL ETHER                        | 0.17 U        |
| ETHYL TERT-BUTYL ETHER                   | 0.4 U         |
| ETHYLBENZENE                             | 0.42 U        |
| HEXACHLOROBUTADIENE                      | 0.83 U        |
| ISOPROPYLBENZENE                         | 0.49 U        |
| M+P-XYLENES                              | 0.42 U        |
| METHYL TERT-BUTYL ETHER                  | 0.47 U        |
| METHYLENE CHLORIDE                       | 2.6 U         |
| NAPHTHALENE                              | 0.8 U         |
| N-BUTYLBENZENE                           | 0.6 U         |
| N-PROPYLBENZENE                          | 0.57 U        |
| O-XYLENE                                 | 0.42 U        |
| SEC-BUTYLBENZENE                         | 0.53 U        |
| STYRENE                                  | 0.45 U        |
| TERT-AMYL METHYL ETHER                   | 0.43 U        |
| TERT-BUTYLBENZENE                        | 0.48 U        |
| TERTIARY-BUTYL ALCOHOL                   | 7.2 U         |
| TETRACHLOROETHENE                        | 0.44 U        |
| TOLUENE                                  | 0.44 U        |
| TOTAL XYLENES                            | 0.42 U        |
| TRANS-1,2-DICHLOROETHENE                 | 0.51 U        |
| TRANS-1,3-DICHLOROPROPENE                | 0.67 U        |
| TRICHLOROETHENE                          | 0.44 U        |
| TRICHLOROFLUOROMETHANE                   | 0.45 U        |
| VINYL ACETATE                            | 0.61 U        |
| VINYL CHLORIDE                           | 0.45 U        |