## FINAL PHASE II ENVIRONMENTAL SITE ASSESSMENT

## STATE CORRECTIONAL INSTITUTION – PITTSBURGH LAND USE FEASIBILITY STUDY 3001 BEAVER AVENUE PITTSBURGH, PENNSYLVANIA 15233



Project No. 2390

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#### **Prepared for:**



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## **EXECUTIVE SUMMARY**

Rhea Engineers & Consultants, Inc. (Rhea) completed a Phase II Environmental Site Assessment (ESA) at the State Correctional Institution (SCI) – Pittsburgh facility (henceforth referred to as "subject property") located at 3001 Beaver Avenue in Pittsburgh, Pennsylvania (PA) in support of potential future development activities. The subject property currently contains the vacant SCI – Pittsburgh facility, which contains approximately 43 structures and comprises 17 parcels across approximately 20 acres along the eastern bank of the Ohio River, northwest of downtown Pittsburgh.

A Phase I ESA was completed at the subject property in September 2022 by Rhea. The Phase I ESA identified Recognized Environmental Conditions (RECs) on and in proximity to the subject property. Based on these RECs, a Phase II ESA involving surface/subsurface soil sampling and groundwater sampling was recommended to characterize the environmental conditions present at the subject property.

This Phase II ESA was performed in accordance with American Society for Testing and Materials (ASTM) E1903-19 for the Pennsylvania Department of General Services (PADGS) to support the determination of the highest and best use of the subject property. Between January 11 and January16, 2023, Rhea conducted a subsurface investigation which included the advancement of 12 soil borings (SB-01 through SB-12) and 12 temporary monitoring wells (MW-01 through MW-12).

#### Soil Media

Two soil samples were collected at each soil boring location and analyzed for volatile organic compounds (VOCs), Target Analyte List (TAL) metals, trivalent chromium, and hexavalent chromium.

One soil sample (SB-11-0-2) contained manganese (2,850 micrograms per liter  $[\mu g/L]$ ) at a concentration above the Pennsylvania Department of Environmental Protection (PADEP) Land Recycling Program Non-Residential Statewide Health Standard (Act 2) standard (2,000  $\mu g/L$ ). The presence of manganese is likely a result of natural processes as manganese is naturally occurring in rock and soil. The remaining soil samples collected during the subsurface investigation did not contain metals, including trivalent or hexavalent chromium, above their respective Act 2 standards. Additionally, none of the soil samples collected during the subsurface investigation contained VOCs above their respective Act 2 standard.

#### Groundwater Media

Groundwater samples were collected from twelve temporary monitoring wells and analyzed for VOCs, TAL metals, trivalent chromium, and hexavalent chromium.

Laboratory results indicate five VOCs (cis-1,2-dichloroethene [DCE], methyl acetate, tetrachloroethene [PCE], toluene, and trichloroethene [TCE]) were detected in groundwater. PCE was detected in seven wells (MW-01, -02, -03, -04, -05, -06, and -07), and exceeded the applicable Act 2 standard (5  $\mu$ g/L) in wells MW-04 (63.7  $\mu$ g/L), -05 (26.3  $\mu$ g/L), and -06 (21  $\mu$ g/L) located in the central portion of the subject property and well MW-03 (207  $\mu$ g/L) located in the north/northeastern portion of the subject property. PCE impacts are often associated with dry-cleaning and metal degreasing activities, both of which have been documented at the subject property. PCE daughter products cis-1,2-DCE (26.3  $\mu$ g/L) and TCE (10.9  $\mu$ g/L) were detected in well MW-03, with TCE exceeding the applicable Act 2 standard (5  $\mu$ g/L). Methyl acetate, toluene, and TCE were detected at other wells throughout the site, but at concentrations below their respective Act 2 standards.

Three metals (arsenic, iron, and manganese) were detected in groundwater samples at concentrations above their respective Act 2 standards. Arsenic exceeded the applicable Act 2 standard (10  $\mu$ g/L) in MW-10 (39  $\mu$ g/L) and MW-11 (13  $\mu$ g/L), located in the western portion of the subject property. Iron and manganese concentrations exceeded the applicable Act 2 standard in four and six locations, respectively. The presence of arsenic in the groundwater may be related to naturally occurring conditions or may be related to the historic use of the coal fired power plant at the subject property as arsenic is a by-product of coal ash. Manganese and iron are naturally occurring in groundwater and concentrations may not be indicative of environmental contamination. No other metals, including trivalent and hexavalent chromium, were detected above Act 2 standards in the groundwater samples collected during the subsurface investigation.

#### Indoor Air Quality

The concentration of PCE in groundwater at MW-03, MW-04, MW-05, and MW-06, and TCE in groundwater at MW-03, exceeds the Medium Specific Concentrations ( $MSC_{gw}$ ) for Regulated Substances in Groundwater under the Act 2 standard of 5  $\mu$ g/L for both constituents. Since the groundwater concentration of PCE and TCE is greater than the  $MSC_{gw}$ , there is potential for vapor intrusion into buildings on the subject property.

#### **Recommendations**

It is Rhea's professional opinion that the previous industrial activities have not impacted site soils to an extent that would adversely affect future earth-disturbing activities at the subject property. Due to the level of manganese above the Act 2 standard for soil at SB-11, Rhea recommends that a Health and Safety Plan (HASP) and a Soil Management Plan (SMP) be prepared in order to develop procedures to limit potential exposure to impacted soil during future earth-disturbing site preparation and construction activities. No additional actions or investigations are recommended at this time for site soils. The HASP should include appropriate health and safety procedures for site workers working within potentially impacted areas. The HASP should also provide procedures to avoid exposure to subsurface contamination. If potentially contaminated soils are planned to be transported, disposed of, or otherwise remediated, the site must abide by the provisions set forth in the PADEP Residual Waste Management regulations (25 Pa. Code Chapters 287 to 299).

The purpose of the SMP is to protect human health and the environment during the handling and/or excavation of soil as part of the redevelopment of the subject property. The SMP shall detail procedures to be followed to ensure that manganese in soil is managed at the subject property to limit exposure to workers and other receptors during earth-disturbing activities. The SMP would also address proper handling, stockpiling and disposal of any soils in proposed construction areas, maintenance of subject property grades, site surface water drainage/management and documentation.

Previous industrial activities have likely impacted groundwater on the subject property. Furthermore, screening of VOC groundwater data indicates potential for vapor intrusion in any buildings located on the subject property. To address the groundwater (VOCs and metals) and potential indoor air quality (IAQ) impacts (VOCs), Rhea recommends:

> + Additional groundwater samples be collected and analyzed from areas surrounding MW-03 to confirm the presence of PCE and TCE, further delineate the contamination plume, and to potentially identify its source. It should be noted that Rhea has submitted a proposal for recommended supplemental sampling activities to Michael Baker International (MBI) for approval by PADGS;

+ Evaluation of the vapor intrusion pathway may be warranted in the future for any existing buildings that are not planned for demolition. An evaluation of the vapor intrusion pathway was not included in Rhea's proposal for supplemental sampling at this time since the plans for retention or demolition of buildings has not been decided.

+ Future site development plans will likely need to incorporate both Institutional (deed restrictions on groundwater use) and Engineering Controls (i.e., active or passive vapor mitigation systems) to mitigate impacts from groundwater contamination.

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## **ACRONYMS AND ABBREVIATIONS**

μg/L	Micrograms Per Liter
Act 2	PADEP Land Recycling Program Statewide Health Standard
AllProbe	AllProbe Environmental, Inc.
ALS	ALS Global
amsl	Above Mean Sea Level
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
bgs	Below Ground Surface
cis-1,2-DCE	Cis-1,2-Dichloroethene
CFR	Code of Federal Regulations
COC	Chain-of-Custody
CSM	Conceptual Site Model
DO	Dissolved Oxygen
DOT	Department of Transportation
EOB	End of Boring
ESA	Environmental Site Assessment
eV	Electron Volt
ft	Feet/foot
GPS	Global Positioning System
HASP	Health and Safety Plan
HREC	Historic Recognized Environmental Condition
IAQ	Indoor Air Quality
IDW	Investigation-Derived Waste
J&E	Johnson and Ettinger
LUST	Leaking Underground Storage Tank
MBI	Michael Baker International
mg/kg	Milligrams Per Kilogram
mg/L	Milligrams Per Liter

ml/min	Milliliters Per Minute
MSC	Medium Specific Concentration
MSC <sub>gw</sub>	Medium Specific Concentration-groundwater
NTU	Nephelometric Turbidity Units
ORP	Oxidation Reduction Potential
P&P	Pedersen & Pedersen, Inc.
PA	Pennsylvania
PADEP	Pennsylvania Department of Environmental Protection
PADGS	Pennsylvania Department of General Services
PADOC	Pennsylvania Department of Corrections
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethene
PG	Professional Geologist
PID	Photoionization Detector
PPE	Personal Protective Equipment
ppm	Parts Per Million
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance / Quality Control
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
Rhea	Rhea Engineers & Consultants, Inc.
SCI	State Correctional Institution
SMP	Soil Management Plan
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List
TCE	Trichloroethene
TDS	Total Dissolved Solids
TOC	Top of Casing
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compound

## **1.0 INTRODUCTION**

Rhea completed a Phase II ESA on the SCI – Pittsburgh facility, located at 3001 Beaver Avenue in Pittsburgh, PA (Figure 1). A Phase I ESA was completed by Rhea in September 2022.

Rhea was contracted by PADGS (the User) to perform a Phase II ESA to characterize soil and groundwater conditions within the 17 parcels that comprise the subject property. Rhea's Phase II ESA was performed in support of the determination of the highest and best use of the subject property. Authorization to proceed with this Phase II ESA was provided by Troy Traux of MBI, in reference to Rhea's proposal dated September 30, 2022.

### 1.1 Objective

Rhea performed a Phase II ESA in conformance with the scope and limitations of ASTM Practice E1903-19. The objective of the Phase II ESA was to characterize soil and groundwater conditions at the subject property in order to determine its highest and best use.

### 1.2 Scope of Services

This Phase II ESA scope of services included:

- + Geophysical survey (electromagnetic and ground-penetrating radar) to clear boring locations of utilities and subsurface features;
- + Laboratory analysis of two soil samples collected from each of the 12 boring locations; and
- + Installation of 12 temporary monitoring wells and laboratory analysis of a groundwater sample collected from each well location.

Soil borings and temporary monitoring wells were positioned throughout the subject property in a manner that provided spatial coverage of the subject property while also favoring areas of suspected contamination. Information obtained during the Phase II ESA has been organized and evaluated to determine the impact of the identified environmental conditions to the property and provide recommendations for additional investigative work, if needed.

### **1.3 Limiting Conditions and Methodologies Used**

#### 1.3.1 Project Limits

Information regarding the location of the subject property and the extent of area to be assessed were provided by Troy Truax of MBI and Brad Swartz of PADGS. Access to the subject property was provided by Jim Niehenke of the PA Department of Corrections (PADOC). Figure 2 depicts the location of Rhea's Phase II ESA.

#### 1.3.2 Limits to Methodologies Used

While ESAs are useful tools to identify potential environmental concerns at a site, no ESA can eliminate all uncertainty. Furthermore, any sample, either surface or subsurface, collected for chemical analysis may or may not be representative of a larger population. Professional judgment and interpretation are inherent in the process and uncertainty is inevitable. Additional assessment may be able to reduce the uncertainty.

Even when Phase II ESA work is executed with an appropriate site-specific standard of care, certain conditions present especially difficult detection problems. Such conditions may include, but are not limited to, complex geological settings, the fate and transport characteristics of certain hazardous substances and petroleum products, the distribution of existing contamination, physical limitations imposed by the location of utilities and other man-made objects, and the limitations of assessment technologies.

#### 1.3.3 User Reliance

The following assessment was conducted per the contractual agreement between Rhea and the User. Any reliance or use of this report by anyone other than the User, for whom the report was issued, without Rhea's explicit and written authorization, is explicitly prohibited. Any reliance or use of this assessment by any third party, without explicit authorization, does not make the said third party a third-party beneficiary to Rhea's agreement with the User. The unauthorized reliance on or use of any part of this report by a third party will be at the third party's risk, and no warranties or representations, either expressed or implied in this report, are associated with such use.

### 1.4 Report Organization

This report includes Rhea's observations, findings, and conclusions associated with the Phase II ESA. The report is organized into the following sections:

+ Section 1.0 – Introduction: Identifies the objective, special conditions, report organization, and limitations and exceptions;

+ Section 2.0 – Site Background: Provides general information about the Site and its features;

+ Section 3.0 – Summary of Field Activities: Description of the work performed and the rationale for performing it;

+ Section 4.0 – Evaluation and Presentation of Results;

+ Section 5.0 – Conclusions: Interpretation of the results in relation to the objectives of the investigation;

+ Section 6.0 – Recommendations: Discusses Rhea's professional recommendations based on the conclusions of the Phase II ESA;

+ Section 7.0 – Environmental Professionals: Presents the qualifications, statement, and signatures of the environmental professionals who conducted the Phase II ESA; and

+ Section 8.0 - References: Includes references used in the preparation of this report.

### **1.5 Limitations and Exceptions**

Rhea reviewed pertinent documentation regarding the property's environmental condition that was provided, and reasonably and practicably available to the user. This documentation includes, but is not limited to, previous ESAs, other environmental studies, and technical reports or documents pertinent to an understanding of the known or potential presence of target analytes at the property; oral histories concerning releases or disposal affecting the property; and the user's detailed knowledge of the nature of any specialized activities and operations conducted at the property that inherently pose the potential for the presence of substances on the property as per the ASTM E1903-19 Standard.

It should be noted that the findings summarized in this report are relevant to the dates of the investigation. The usability of data collected by Rhea may have a finite lifetime and should not be relied upon to represent future conditions. The Phase II ESA and reporting efforts were prepared in accordance with the ASTM E1903-19 Standard and generally accepted professional practices, principles, and procedures existing at the time of its preparation. Rhea has reviewed the available information for the subject property and will not be responsible for conditions arising from concealed, withheld, or incorrect information.

It should also be noted that, in general, Phase II ESAs are intended to develop and present sound, scientifically valid data concerning actual site conditions. It shall not be the role of a Phase II Assessor to provide legal or business advice.

## 2.0 SITE BACKGROUND

### 2.1 Site Location and Description

This Phase II ESA was conducted at the SCI – Pittsburgh facility located at 3001 Beaver Avenue in Pittsburgh, PA (Figure 1). The subject property is located approximately four miles northwest of downtown Pittsburgh and immediately adjacent to the Ohio River. The subject property contains the vacant SCI – Pittsburgh facility, which contains approximately 43 buildings and comprises 17 parcels across approximately 20 acres. The subject property has been used as a correctional facility since at least the mid 1880's along with various support facilities, including hospitals, dining facilities, power plants, laundry facilities (including drycleaning), industrial manufacturing facilities, and machine shops, among others. Operations at these facilities likely included the use of hazardous substances. On-site chemical storage at the time of Rhea's September 2022 Phase I ESA included various quantities of sealant, air compressor oil, adhesive, paint, solvent, antifreeze, acetylene canisters, water treatment chemicals, refrigerants, lubricant, motor oil, gasoline, and lead acid batteries in multiple buildings throughout the subject property. The subject property is surrounded by commercial and industrial properties, including Engineered Polymer Solutions Inc. and the Allegheny County Sanitary Authority to the north, various commercial warehouses to the east, a Duquesne Light Company service center to the south, and the Ohio River to the west. The subject property is generally flat with an elevation of approximately 720 feet (ft) above mean sea level (amsl).

### 2.2 Previous Environmental Investigations

The following subsections detail previous investigations conducted on, or associated with, the subject property.

#### 2.2.1 Phase I ESA - November 2017

In November 2017, Pedersen & Pedersen, Inc. (P&P) completed a Phase I ESA on the SCI – Pittsburgh facility. The Phase I ESA identified the following RECs:

+ Historic aboveground storage tanks (ASTs) identified on nearby or adjacent properties;

+ Historic industrial activities on adjacent properties;

+ Resource Conservation and Recovery Act (RCRA) Waste Generators on nearby or adjacent properties;

+ Manufacturing operations on the subject property which generated hazardous waste;

+ Leaking Underground Storage Tanks (LUSTs) on and adjacent to the subject property;

+ Underground Storage Tanks (USTs) currently in use at the subject property;

+ Archive USTs and ASTs on and adjacent to the subject property; and

+ Historical Auto Shops and Dry Cleaners on nearby or adjacent properties.

Based on these RECs, P&P recommended that a Phase II ESA, which was to include the analysis of surface, subsurface, and groundwater samples for VOCs, semi-volatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), TAL metals, dioxins and furans, and oil and grease, be conducted to determine the environmental condition of the subject property.

#### 2.2.2 Phase II ESA – July 2019

In July 2019, Rhea completed a Phase II ESA on the SCI – Pittsburgh facility in accordance with the recommendations outlined in the November 2017 Phase I ESA conducted by P&P. The Phase II ESA identified the following findings:

Four soil samples contained one metal (lead) at a concentration above their respective Act 2 standard. Additionally, manganese exceeded the applicable Act 2 standard in soil samples collected at three different borings.

Groundwater samples were collected from eight temporary monitoring wells and analyzed for VOCs, SVOCs, PAHs, TAL metals, and PCBs. Three VOCs were detected in groundwater. PCE was detected in three wells and exceeded the applicable Act 2 standard (5  $\mu$ g/L) in centrally located temporary monitoring well MW-03. PCE impacts are often associated with dry-cleaning and metal degreasing activities, both of which have been documented at the subject property. Cis-1,2-DCE and chloroform were each detected in one well, but at concentrations below their respective Act 2 standards. Three metals (arsenic, iron, and manganese) were detected in groundwater samples at concentrations above their respective Act 2 standards. Natural sources of arsenic in groundwater include the dissolution and desorption of naturally occurring minerals pyrite and iron oxide, respectively. The presence of arsenic in groundwater may also be related to the historic use of the coal fired power plant at the subject property as arsenic is a by-product of coal ash. Manganese and iron are naturally occurring in groundwater and concentrations may not be indicative of environmental contamination.

The concentration of PCE in groundwater at MW-03 exceeds the Johnson and Ettinger (J&E) Non-Residential Used Aquifer IAQ screening level. Since the groundwater concentration of PCE is greater than the J&E PA default screening level for PCE, there is potential for vapor intrusion into buildings on the subject property.

#### 2.2.3 Phase I ESA – September 2022

In September 2022, Rhea completed a Phase I ESA on the SCI – Pittsburgh facility. The Phase I ESA identified the following RECs:

+ Historic site use, including the likely use of hazardous chemicals in support of site operations.

+ Historic ASTs on adjoining and surrounding properties.

+ Known soil and groundwater concentrations for arsenic, iron, lead, manganese, and PCE above applicable Act 2 standards on the subject property.

+ Potential for leachate emanating from a coal storage area on the subject property to impact soil and groundwater.

+ A historic REC (HREC) was also identified for a LUST case that occurred in November 1997. Because the LUST case has been addressed to the satisfaction of the PADEP without subjecting the property to any required controls, it is considered a HREC.

Based on these RECs, Rhea recommended that a Phase II ESA, which was to include the analysis of surface soil, subsurface soil, and groundwater samples for VOCs, TAL metals, trivalent chromium, and hexavalent chromium, be conducted to determine the environmental condition of the subject property. This Phase II ESA report has generally been completed in accordance with the recommendations outlined in the September 2022 Phase I ESA.

## **3.0 SUMMARY OF FIELD ACTIVITIES**

### 3.1 Subsurface Investigation

Erik Hartle and Tyler Newell of Rhea, under the supervision of Michael Stoehr, Professional Geologist (PG) and Zachary Wicks, Project Manager, conducted a subsurface investigation between January 11 and January16, 2023 at the SCI – Pittsburgh facility. The investigation included the advancement of 12 soil borings and the installation of 12 temporary monitoring wells. The preparation and field methods associated with the subsurface investigation are discussed below.

#### 3.1.1 Conceptual Site Model

The conceptual site model (CSM) takes into consideration the potential distributions of contaminants with respect to the properties, behaviors, and fate and transport characteristics of the contaminant at a site. The description of the potential pathways includes the hazardous materials' source, the release mechanism, a medium allowing movement of the hazardous materials, and the presence of the receptor. The SCI - Pittsburgh facility is not currently in use or permanently occupied. Potable water is provided to the subject property, so groundwater is not used for drinking or other purposes. Ingestion or dermal contact with soils is unlikely (much of the subject property is paved or covered with concrete) but could be encountered during intrusive activities during construction or by utility companies.

The CSM and sampling plan were developed in general accordance with ASTM Standard E1903-19: *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.* Soil borings and temporary monitoring wells were positioned throughout the subject property in a manner that provided spatial coverage of the subject property while also favoring areas of suspected contamination. The selection of soil boring and temporary monitoring well locations was limited by the number of buildings and the amount of reinforced concrete present at the subject property. Twelve soil borings were advanced to a depth of 15 feet below ground surface (bgs) or until sampler refusal was encountered. Soil boring locations are presented on Figure 3.

Each of the twelve soil boring locations was converted to a temporary monitoring well. The temporary monitoring wells were installed to a depth between approximately 17 and 30 ft bgs and screened across the groundwater interface. The location of each temporary monitoring well is presented on Figure 3. Temporary monitoring well installation information is provided in Table 3-2.

#### 3.1.2 Sampling and Analysis Plan

The sampling and analysis plan developed for the SCI - Pittsburgh Phase II ESA was created based on the recommendations of the Phase I ESA (Rhea, 2022). The location of soil borings and temporary monitoring wells at the subject property was designed to provide comprehensive coverage of the subject property while also favoring areas of suspected contamination. Soil sample log sheets and groundwater sample log sheets were prepared for each sampling location, documenting characteristics of the respective environmental media sampled. At the time of sampling, a chain-of-custody (COC) document was prepared to record the date and time of the sample in addition to the analytical parameters for the respective sample. A COC document accompanied each sample shipment that was delivered to the analytical laboratory by the laboratory's private courier. COC records provide documentation regarding date of sample collection, time of sample collection, requested analytical parameters in addition to persons involved with the chain of sample possession.

Soil and groundwater samples collected at the subject property were delivered to ALS Global (ALS) in Middletown, PA. All soil samples collected at the subject property were analyzed for the following parameters:

+ VOCs (United States Environmental Protection Agency [USEPA] Methods 8260B and 5035);

+ TAL Metals, plus trivalent chromium (USEPA Method 6020A/7471B); and

+ Hexavalent Chromium (USEPA Method 7196A).

Groundwater samples collected at the subject property were analyzed for the following parameters:

- + VOCs (USEPA Methods 8260C);
- + TAL Metals, plus trivalent chromium (USEPA Method 6020A/7470A); and
- + Hexavalent Chromium (USEPA Method 7196A)

It should be noted that, per PA Code Chapter 250.10, samples for metals analysis were field filtered in accordance with the PADEP *Groundwater Monitoring Guidance Manual*. Analytical results are discussed in Section 4.2. The soil sample collection reports, water sample field logs, and full laboratory data package, including COC forms, are included in Appendices A, B, and C, respectively.

### 3.2 Field Explorations and Methods

#### 3.2.1 Utility Clearance

Prior to the subsurface investigation, a utility clearance was completed through the PA One Call system in accordance with PA Act 287. The PA One Call did not identify any utilities within the area of Rhea's drilling locations. In addition to the PA One Call, Rhea conducted a geophysical survey of each boring location to clear each location of any private utility lines or subsurface features associated with the subject property's use as a correctional facility (e.g., steam lines, tunnels). The geophysical survey included electromagnetic and ground-penetrating radar techniques. Based on the results of the geophysical survey, the soil boring locations were re-located as needed.

#### 3.2.2 Soil Borings

The subsurface investigation included the advancement of 12 soil borings (SB-01 to SB-12). Each boring location was marked in the field by Rhea personnel prior to drilling activities. Prior to the abandonment of each bore hole, location coordinates were recorded using a handheld Trimble Geo 7X Global Positioning System (GPS).

The soil borings were advanced to their pre-determined depths or to boring refusal using direct push technology (i.e., Geoprobe) by AllProbe Environmental Inc. (AllProbe) of Wexford, PA. Each boring was continuously sampled at 5-ft intervals using a 2<sup>1</sup>/<sub>4</sub>-inch outer diameter macro-core soil sampler with an internal disposable polyethylene liner.

Upon retrieval of each five-foot soil interval, Rhea field team members characterized and recorded the lithology (i.e., physical characteristics, soil type, cohesiveness, color, grain size, and relative moisture content) of the soil in the field. While wearing disposable nitrile gloves, Rhea personnel placed discrete two-foot samples into labeled, re-sealable plastic bags. The bags were left to sit for approximately 20 minutes before being field screened for VOCs using a photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. The PID was calibrated prior to use with a 100 parts per million (ppm) isobutylene air standard.

Two soil samples were selected for analysis from each soil boring. Samples selected for analysis included the surface (0-2 ft bgs) interval, when soil was present, and the subsurface (2-15 ft bgs) soil with the highest PID reading. Soil samples selected for laboratory analysis were placed into laboratory-supplied Terra-core kits and glass jars and placed in a cooler with ice. The soil samples were hand delivered under COC to an ALS service center for delivery to the laboratory following each day of sampling. Table 3-1 shows the PID readings within each depth interval for each boring.

Boring ID/PID Reading (ppm)								
Depth (ft)	Depth (ff)         SB-01         SB-02         SB-03         SB-04         SB-05         SB-06							
0-2	13.5	0.3	0.5	0.5	0.9	6.8		
2-4	1.1	0.1	0.1	0.4	1.5	1.2		
4-6	1.2	0.1	1.4	0.3	2.6	0.4		
6-8	2.1	0.2	0.3	0.4	1.7	0.4		
8-10	2.5	0.2	2.4	0.1	1.6	1.5		
10-12	3.5	0.4	0.3	0.3	1.4	1.0		
12-14	2.8	0.3	0.2	0.3	1.1	0.6		
14-16	3.2	0.3	0.3	0.6	1.5	1.0		
	EOB	EOB	EOB	EOB	EOB	EOB		

Table 3-1 PID Soil Field Screening Results

Boring ID/PID Reading (ppm)						
Depth (ft)	SB-07	SB-08	SB-09	SB-10	SB-11	SB-12
0-2	0.9	0.1	0.1	0.1	1.8	1.8
2-4	1.3	0.0	0.0	0.2	0.4	2.2
4-6	1.2	0.0	0.2	0.2	0.6	2.1
6-8	1.2	0.1	0.0	0.1	1.4	3.1
8-10	0.8	0.0	0.0	0.2	0.8	2.7
10-12	0.8	0.0	0.0	0.1	0.2	4.4
12-14	0.8	0.0	0.0	0.1	0.3	2.7
14-16	0.7	0.0	0.0	0.1	0.1	2.8
	EOB	EOB	EOB	EOB	EOB	EOB

Notes:

EOB – End of Boring

Shaded cells indicate sample submitted for laboratory analysis.

Based on visual observations, unconsolidated material within 15 ft of the ground surface consisted primarily of asphalt and fill material from 0-4 ft bgs followed by a mixture of dense silty clay, fine sand, coarse gravel, and damp alluvium deposits, from 4-15 ft bgs. Small coal and sandstone fragments were present in the borings.

#### 3.2.3 Temporary Monitoring Well Installation

Twelve temporary monitoring wells (MW-01 to MW-12) were installed at each existing soil boring location across the subject property (Figure 3). Each temporary monitoring well was installed using a Geoprobe with internal disposable liners until groundwater was encountered at depths ranging from 17 ft bgs (MW-04) to 30 ft bgs (MW-01). Upon encountering groundwater, the boring was advanced to a sufficient depth to permit the installation of a 10-foot well screen which bracketed the groundwater interface. The temporary monitoring wells were constructed by inserting 1-inch inner diameter, schedule 40 polyvinyl chloride (PVC), 0.010-inch machine-slotted well screen and solid PVC riser pipe in the open borehole. Temporary monitoring well construction details, including well depth, depth to water, and the height of the top of casing (TOC) above the ground surface, is provided in Table 3-2.

Temporary Monitoring Well Construction Details							
Well ID	Well Depth (ft bgs)	Depth to Water (ft TOC)*	TOC Height**				
MW-01	30	17.60	0.3				
MW-02	24	17.78	0.9				
MW-03	19	16.50	0.25				
MW-04	17	12.57	0.18				
MW-05	20	14.55	0.5				
MW-06	20	14.67	0.5				
MW-07	20	14.13	0.57				
MW-08	25	18.67	0.3				
MW-09	20	10.31	0.29				
MW-10	25	11.50	0.45				
MW-11	20	11.75	0.62				
MW-12	20	11.54	0.54				

#### Table 3-2 Temporary Monitoring Well Construction Details

Notes:

\*Depth to water measured in feet below TOC

\*\*TOC height measured in feet above ground surface

Following temporary monitoring well installation, each well was developed using a peristaltic pump and dedicated polyethylene tubing. Each temporary monitoring well was developed until at least three well volumes of groundwater were removed from the well. Following development, each temporary monitoring well was left to

recover overnight before sampling. Well development water was contained in 55gallon Department of Transportation (DOT) approved drums for subsequent characterization and disposal.

#### 3.2.4 Temporary Monitoring Well Abandonment

Upon completion of groundwater sampling activities, each temporary monitoring well was abandoned. AllProbe performed the well abandonments by pulling the well casing and backfilling the remaining borehole with the excess drill cuttings and bentonite chips to within several inches of the ground surface. Temporary monitoring wells advanced through paved surfaces were patched with asphalt, and temporary monitoring wells advanced through grassy areas were re-established with topsoil.

#### 3.2.5 Groundwater Sampling

Groundwater samples were collected using low-flow groundwater sampling techniques. Temporary monitoring wells were purged and sampled with a peristaltic pump and dedicated polyethylene tubing. The temporary monitoring wells were purged at a rate equal to, or less than, the groundwater recharge rate. Purge rates for the wells ranged from 150 milliliters per minute (ml/min) to 200 ml/min. The temporary monitoring wells were purged for a minimum of 30 minutes or until the groundwater quality field parameters (dissolved oxygen [DO], temperature, pH, conductivity, oxidation reduction potential [ORP], turbidity) and water levels stabilized. Temporary monitoring well MW-08 could not be purged as the well continuously ran dry during pumping. The groundwater sample from MW-08 was collected after the well was purged dry and allowed to recharge. Groundwater quality field parameters, flow rates, and depth-to-water measurements were recorded approximately every five minutes (Appendix B). Parameters were considered stable once they met the following requirements for three consecutive readings:

- + DO ( $\pm$  3 percent);
- +  $pH (\pm 0.1 \text{ standard units});$
- + Conductivity (± 10 percent)
- + ORP ( $\pm$  10 percent); and
- + Turbidity (less than 10 Nephelometric Turbidity Units [NTUs], or as low as practicable)

Groundwater samples were collected in laboratory-supplied and labeled bottles. Each sample was analyzed for the parameters identified in Section 3.1.2. Groundwater samples, temperature blanks, and trip blanks were packed into a cooler with ice and hand delivered to an ALS service center for delivery to the laboratory. Each groundwater sample was logged on a COC form prior to shipment each day.

#### 3.2.6 PPE and Equipment Decontamination

Special precautions were taken to prevent potential cross-contamination during groundwater sampling at each temporary monitoring well. Personal protective equipment (PPE) worn by the samplers consisted of disposable, non-powdered nitrile gloves which were worn at all times during purging, sampling, decontamination, and equipment set up and tear down. Gloves were replaced between each soil boring and temporary monitoring well or more often as needed.

Equipment used for sampling activities arrived on site in clean condition. With the exception of certified laboratory-cleaned equipment, all sampling, testing, or measuring equipment that came in contact with potentially contaminated medium was decontaminated prior to use, unless it arrived prepackaged by a manufacturer. Dedicated tubing was used at each temporary monitoring well location and was discarded following sampling. Disposable sampling equipment (e.g., tubing, 45 micron filters) were disposed of properly after a single use and were not used at more than one temporary monitoring well.

#### 3.2.7 Investigation Derived Waste

Investigation-derived waste (IDW) consisted of soil (drill cuttings and excess soil sample material), purge water, disposable sampling materials, and PPE. IDW groundwater was placed in properly labeled DOT steel open-head drums and stored in a secure staging area at the subject property pending the results of groundwater sample analysis. IDW soil was returned to its' respective borehole at the conclusion of sampling activities. PPE and disposable sampling materials, including the PVC used for the temporary monitoring wells, was bagged and properly disposed of as municipal waste.

Rhea is subcontracting with HEPACO, Inc. to properly profile, manifest, ship, and dispose of the IDW groundwater. All waste profiling analytical data, shipping papers, including non-hazardous waste manifests and bills of lading, will be provided under separate cover.

### 4.1 Subsurface Conditions

#### 4.1.1 Geologic Setting

The United States Geological Survey (USGS) Pittsburgh West Quadrangle (Figure 1) indicates that the subject property is situated at an approximate elevation of 720 ft amsl and is underlain by Urban Land soils, which are derived from pavement, buildings, and other artificially covered areas.

The subject property is located in the Appalachian Plateaus Physiographic Province of PA. The topography is characterized by flat hill tops cut by narrow valleys extending 400 to 500 ft below the tops of the hills (Wagner et al., 1970). The present-day valleys were formed through erosion of an ancient peneplain as a result of gradual uplift (Noecker et al., 1954). The subject property is located in the Ohio River Valley, which contains the Ohio River and its floodplain. The geology of the Ohio River floodplain in the area of the subject property is characterized by alluvium underlain by cyclic sequences of sandstone, siltstone, shale, claystone, limestone, and coal of the Glenshaw Formation, which were deposited in shallow inland seas and broad swamps during the Pennsylvanian Period approximately 300 million years ago (Noecker et al., 1954). While not glaciated, the area was influenced by the advancement of glaciers into parts of northern PA during the Pleistocene, as ice damming forced the areas rivers to change course from their original northward flow pattern to a generally southward direction (Wagner et al., 1970).

#### 4.1.2 Regional Hydrogeologic Setting

The subject property is located along the eastern bank of the Ohio River. The major streams and tributaries in the Ohio River Valley generally follow courses which are independent of the geologic structure of the region (Noecker et. al, 1954). Groundwater in the area of the subject property is derived from local precipitation and infiltration of water from nearby rivers. Groundwater supplies in the upland areas are replenished exclusively by local precipitation while valley aquifers are mainly replenished by infiltration of water from the major rivers (Noecker et al., 1954). In the area of the subject property, along the Ohio River, the most productive groundwater deposits are the coarse-grained outwash sand and gravel, which were deposited by glacial melt water from the north and are highly permeable (Noecker et al., 1954).

Depth to groundwater in the valley aquifers fluctuates throughout the year and is primarily affected by pumping and changes in infiltration caused by fluctuating river levels. During most of the year, the water table slopes towards the river; however, when the river reaches high stage the slope of the water table is reversed and the surface water recharges the adjacent aquifers (Noecker et al., 1954).

#### 4.1.3 Site-Specific Groundwater Conditions

Groundwater at the subject property occurred at depths ranging from 10.31 to 18.67 ft below TOC in the Quaternary alluvium deposits. Based on the proximity of the subject property to the Ohio River, Rhea assumes that groundwater flows west towards the Ohio River.

### 4.2 Analytical Data

#### 4.2.1 Soil Analytical Results

Tables 1A and 1B provide a summary of analytical detections for the surface and subsurface soil samples collected in comparison to the Act 2 standards, respectively. The analytical data was compared to the Direct Contact Medium Specific Concentration (MSC) and soil-to-groundwater MSCs for a used, non-residential, aquifer with less than or equal to 2,500 ppm Total Dissolved Solids (TDS). The soil-to-groundwater MSC table within Act 2 contains two numeric values: the 100 times groundwater MSC; and a generic value. In accordance with the Act 2 Technical Guidance Manual, dated January 2019, the higher of the 100-times groundwater MSC and the generic value may be selected for use as the soil-to-groundwater value. The lower of the appropriate soil-to-groundwater value and the direct contact value is the applicable non-residential MSC for soil and was used to demonstrate compliance with the Act 2 Standard. Soil samples which contain constituents exceeding their respective Act 2 standard are presented on Figure 4. Complete laboratory reports are provided in Appendix C.

#### Volatile Organic Compounds

Laboratory results indicate that none of the soil samples collected during the subsurface investigation contained VOCs at concentrations above their respective Act 2 standards. A review of the analytical data for soil samples at the subject property shows that acetone was detected in 10 of the 24 soil samples collected at the subject property. The acetone detection in the samples is most likely related to the preservation of the samples with sodium bisulfate. In soil samples with a high proportion of organic material, the solium bisulfate will generate acetone when it reacts with organic material in the soil (California EPA, 2004).

#### Metals

One soil sample (SB-11-0-2) contained manganese (2,850 milligrams per kilogram [mg/kg]) at a concentration above the applicable Act 2 standard (2,000 mg/kg). The remaining soil samples collected during the subsurface investigation did not contain metals, including trivalent or hexavalent chromium, above their respective Act 2 standards.

#### 4.2.2 Groundwater Analytical Results

Table 2 summarizes the analytical results for groundwater samples collected from the 12 temporary monitoring wells installed at the subject property. The analytical results were compared to the  $MSC_{gw}$ . The MSCs for a used, non-residential aquifer with less than or equal to 2,500 milligrams per Liter (mg/L) TDS were used to determine compliance with Act 2 standards. Groundwater samples which contain constituents exceeding their respective Act 2 standard are presented on Figure 5. Complete laboratory reports are provided in Appendix C.

#### Volatile Organic Compounds

Laboratory results indicate five VOCs (cis-1,2-DCE, methyl acetate, PCE, toluene, and TCE) were detected in groundwater. PCE was detected in seven wells (MW-01, -02, -03, -04, -05, -06, and -07), and exceeded the applicable Act 2 standard (5  $\mu$ g/L) in wells MW-04 (63.7  $\mu$ g/L), -05 (26.3  $\mu$ g/L), -06 (21  $\mu$ g/L) located in the central portion of the subject property and well MW-03 (207  $\mu$ g/L) located in the north/northeastern portion of the subject property. PCE daughter products cis-1,2-DCE (26.3  $\mu$ g/L) and TCE (10.9  $\mu$ g/L) were detected in well MW-03, with TCE exceeding the applicable Act 2 standard (5  $\mu$ g/L). Methyl acetate, toluene, and TCE were detected at other wells throughout the site, but at concentrations below their respective Act 2 standards.

#### Metals

Three metals (arsenic, iron, and manganese) were detected in groundwater samples at concentrations above their respective Act 2 standards. Arsenic exceeded the applicable Act 2 standard (10  $\mu$ g/L) in MW-10 (39  $\mu$ g/L) and MW-11 (13  $\mu$ g/L), located in the western portion of the subject property. Iron and manganese concentrations exceeded the applicable Act 2 standard in four and six locations, respectively. Natural sources of arsenic in groundwater include the dissolution and desorption of naturally occurring minerals pyrite and iron oxide, respectively. The presence of arsenic in groundwater may also be related to the historic use of the coal fired power plant at the subject property as arsenic is a by-product of coal ash. Manganese and iron are naturally occurring in groundwater and concentrations may not be indicative of environmental contamination. It is important to note that the Act 2 standards for iron and manganese are based on Secondary Maximum Contaminant and Lifetime Health Advisory Levels, respectively, which are non-enforceable guidelines.

#### 4.2.3 Vapor Intrusion into Buildings from Groundwater and Soil under the Act 2 Statewide Health Standard

IAQ from the vapor intrusion of contaminants into buildings from groundwater and soil is not specifically detailed in the Act 2, Chapter 250 regulations. However, *Section IV: Vapor Intrusion* of the *PADEP Land Recycling Program Technical Guidance Manual* was developed to assist in assessing the potential for indoor vapor intrusion pathways (PADEP, 2021).

When releases of compounds occur near buildings, volatilization of contaminants from the dissolved or pure phases in the subsurface can result in the intrusion of vapor-phase contaminants into indoor air. For nonresidential receptors, if the levels of regulated substances do not exceed the nonresidential  $MSC_{gw}$  for used aquifers, then there is no potential vapor intrusion source and no further site evaluation is required (PADEP, 2021).

Since PCE exceeded the Act 2 Non-Residential standard of 5  $\mu$ g/L at MW-03, MW-04, MW-05, and MW-06 and TCE exceeded the Act 2 Non-Residential Standard of 5  $\mu$ g/L at MW-03, further vapor intrusion evaluation is warranted. Given the unknown future use of the subject property, vapor intrusion has been evaluated conservatively and includes the following assumptions:

+ Any future building/structure foundations constructed in the area of temporary monitoring wells MW-03, MW-04, MW-05, and MW-06 would be within five feet of the groundwater level; and

+ Any future buildings/structures would be non-residential.

When the applicable and appropriate  $MSC_{gw}$  for a compound is exceeded, given the above assumption regarding building foundation levels, a potentially complete pathway exists if an inhabited building or below grade occupied space is:

+ Within 100 feet of a source horizontally, and

+ Not separated vertically from the source by at least 30 feet (of sand) or 15 feet (of soil other than sand).

Based upon the subsurface geologic profile in the vicinity of MW-03, MW-04, MW-05, and MW-06, and the unknown future use of the subject property, there is a potential for vapor intrusion on the subject property. For a potentially complete

pathway, if the groundwater concentrations are less than the appropriate and applicable  $MSC_{gw}$  or the groundwater level is greater than or equal to 5 feet from the receptor and concentrations are below the applicable PADEP Statewide Health Standard screening value (PADEP, 2021 Table IV-1), then no further vapor intrusion or IAQ activity for groundwater is warranted.

The concentration of PCE in groundwater at MW-03, MW-04, MW-05, and MW-06, and TCE in groundwater at MW-03, exceeds the  $MSC_{gw}$  for both constituents of 5 µg/L. Since the groundwater concentration of PCE and TCE is greater than the  $MSC_{gw}$ , further evaluation for vapor intrusion would be warranted in the area of MW-03, MW-04, MW-05, and MW-06 if a building would be constructed over top of, or within 100 feet, of the locations. As an alternative to additional investigation, mitigation plans could be incorporated into building designs if the building fell within guidance document set-backs.

#### 4.2.4 Analytical Data Quality and Data Qualifiers

Quality assurance and quality control (QA/QC) samples were submitted to the laboratory in order to evaluate the quality of the chemical analysis of the samples. Based on the review of the laboratory analytical data, no major issues were identified. However, it should be noted that methyl acetate was detected in the method blank at a value greater than the reporting limit in the groundwater samples collected at wells MW-01, -07, -09, -10, and -11. Detections of methyl acetate at these wells have been denoted with a "MB" qualifier.

#### 4.2.5 Verification of a Conceptual Site Model

Based on the results of the Phase II ESA, soil at the subject property was impacted by manganese above Act 2 standards at SB-11 (2,850 mg/kg) (Figure 4). The presence of manganese is likely a result of natural processes as manganese is naturally occurring in rock and soil. Normal exposure pathways would typically be limited to dermal contact in surface soil at 0-2 ft bgs; however, the soil boring location impacted by manganese is covered by pavement; therefore, contact with the soil is not likely as long as the pavement remains in place. In the event that the pavement degrades or is removed, potential sensitive receptors could include site workers, trespassers, and flora/fauna.

Groundwater at the subject property is impacted by PCE and TCE (chlorinated VOCs), and metals above Act 2 standards (Figure 5). PCE was detected above the Act 2 standard and the MSC<sub>gw</sub> of 5  $\mu$ g/L in MW-03 (207  $\mu$ g/L), MW-04 (63.7  $\mu$ g/L), MW-05 (26.3  $\mu$ g/L), and MW-06 (21  $\mu$ g/L) while TCE was detected above the Act 2 standard and the MSC<sub>gw</sub> of 5  $\mu$ g/L in MW-03 (10.9  $\mu$ g/L). Sources of PCE typically include historic dry cleaners, automotive repair shops, and paint shops where it was

used as a solvent. The source of the PCE detected in MW-04, MW-05, and MW-06 is likely attributed to the historic industrial use of the subject property including, metal shop operations, dry cleaning, welding, printing, and painting (Rhea, 2022).

The source of the PCE detected in MW-03 is not well defined as this detection is an order of magnitude greater than the PCE levels found in temporary monitoring wells MW-04, MW-05, and MW-06 and the location of MW-03 does not appear to be located downgradient of any known historical industrial uses on the subject property that are typically recognized as a PCE source. The TCE detected in this well is likely a result of the reductive dichlorination of the PCE detected in this well as TCE is a daughter product of PCE. Additional investigation would be required to determine if the source of the PCE detected in temporary monitoring well MW-03 is a result of the historic industrial use of the subject property and/or the historic dry cleaners, automotive repair shops, and paint shops located within approximately one-eighth of a mile up-gradient and cross-gradient from the subject property (Rhea, 2022).

Additionally, three metals were detected in groundwater above their respective Act 2 standards including, arsenic in MW-10 and MW-11, iron in MW-08 and MW-10 through MW-12, and manganese in MW-02, MW-03, MW-08, and MW-10 through MW-12. The presence of iron and manganese is likely a result of natural processes as these constituents occur naturally in soils and rock and are easily dissolved by groundwater. Natural sources of arsenic in groundwater include the dissolution and desorption of naturally occurring minerals pyrite and iron oxide, respectively. The presence of arsenic in groundwater may also be related to the historic use of the coal fired power plant at the subject property as arsenic is a by-product of coal ash. Potable water is currently supplied to the subject property by two public water supply lines. Currently the only potential sensitive receptors related to groundwater could include site workers involved with excavation into the subsurface and flora and fauna inhabiting the area.

The CSM and sampling plan developed for the subject property were verified during the Phase II ESA activities. The QA/QC procedures described above were adequate to verify the data acceptability.

## 5.0 CONCLUSIONS

Based on the subsurface investigation and a review of previous investigations at the subject property, Rhea has made the following conclusions:

+ None of the soil samples collected during the subsurface investigation contained VOCs at concentrations above their respective Act 2 standard.

+ One soil sample (SB-11-0-2) contained manganese (2,850  $\mu$ g/L) at a concentration above the Act 2 standard (2,000  $\mu$ g/L). The presence of manganese is likely a result of natural processes as manganese is naturally occurring in rock and soil. The remaining soil samples collected during the subsurface investigation did not contain metals, including trivalent or hexavalent chromium, above their respective Act 2 standards.

+ PCE was detected in groundwater at MW-03 (207  $\mu$ g/L), MW-04 (63.7  $\mu$ g/L), MW-05 (26.3  $\mu$ g/L), and MW-06 (21  $\mu$ g/L) above the applicable Act 2 standard and the MSC<sub>gw</sub> of 5  $\mu$ g/L. Temporary monitoring wells MW-04, MW-05, and MW-06 are located in the central portion of the subject property within the prison walls. The source of the PCE detected in MW-04, MW-05, and MW-06 is likely attributed to the historic industrial use of the subject property.

+ MW-03 is located in the north/northeastern portion of the subject property in an asphalt-paved area within the prison walls. The source of the PCE detected in MW-03 is not well defined as this detection is an order of magnitude greater than the PCE levels found in temporary monitoring wells MW-04, MW-05, and MW-06 and the location of MW-03 does not appear to be located downgradient of any known historical industrial uses on the subject property that are typically recognized as a PCE source. An additional investigation would be required to determine if the source of the PCE detected in temporary monitoring well MW-03 is a result of historical on-site industrial activities or an off-site source.

+ TCE was detected in groundwater at MW-03 at a concentration of 10.9  $\mu$ g/L, above the applicable Act 2 standard and the MSC<sub>gw</sub> of 5  $\mu$ g/L. The TCE detected in this well is likely a result of the reductive dichlorination of the PCE detected in this well as TCE is a daughter product of PCE. Cis-1,2-DCE, another daughter product of PCE, was also detected in MW-03 at a concentration below the applicable Act 2 standard. Methyl acetate, PCE, toluene, and TCE were detected at other temporary monitoring well locations at levels below their respective Act 2 standards.

+ Three metals (arsenic, iron, and manganese) were detected in groundwater samples at concentrations above their respective Act 2 standards. Arsenic exceeded the applicable Act 2 standard (10  $\mu$ g/L) in MW-10 (39  $\mu$ g/L), MW-11 (13  $\mu$ g/L), located in the western portion of the subject property. Iron and manganese concentrations exceeded the applicable Act 2 standard in four and six locations, respectively. The presence of arsenic in the groundwater may be related to naturally occurring conditions or may be related to the historic use of the coal fired power plant at the subject property as arsenic is a by-product of coal ash. Manganese and iron are naturally occurring in groundwater and concentrations may not be indicative of environmental contamination.

## 6.0 **RECOMMENDATIONS**

The following recommendations regarding the subject property are based on Rhea's observations and interpretations as they relate to the results of the subsurface investigation, observed subject property conditions, available subject property history, and usage information. The results of this evaluation are qualified by the fact that only limited intrusive investigative activities have been conducted.

It is Rhea's professional opinion that the previous industrial activities have not impacted site soils to an extent that would adversely affect future earth-disturbing activities at the subject property. Due to the level of manganese above the Act 2 standard for soil at SB-11, Rhea recommends that a HASP and a SMP be prepared in order to develop procedures to limit potential exposure to impacted soil during future earth-disturbing site preparation and construction activities. No additional actions or investigations are recommended at this time for site soils.

The HASP should include appropriate health and safety procedures for site workers working within potentially impacted areas. The HASP should also provide procedures to avoid exposure to subsurface contamination. If potentially contaminated soils are planned to be transported, disposed of, or otherwise remediated, the site must abide by the provisions set forth in the PADEP Residual Waste Management regulations (25 Pa. Code Chapters 287 to 299).

The purpose of the SMP is to protect human health and the environment during the handling and/or excavation of soil as part of the redevelopment of the subject property. The SMP shall detail procedures to be followed to ensure that manganese in soil is managed at the subject property to limit exposure to workers and other receptors during earth-disturbing activities. The SMP would also address proper handling, stockpiling and disposal of any soils in proposed construction areas, maintenance of subject property grades, site surface water drainage/management and documentation.

Previous industrial activities have likely impacted groundwater on the subject property. Furthermore, screening of VOC groundwater data indicates potential for vapor intrusion in any buildings located on the subject property. To address the groundwater (VOCs and metals) and potential IAQ impacts (VOCs), Rhea recommends:

> + Additional groundwater samples be collected and analyzed from areas surrounding MW-03 to confirm the presence of PCE and TCE, further delineate the contamination plume, and to potentially identify its source.

It should be noted that Rhea has submitted a proposal for recommended supplemental sampling activities to MBI for approval by PADGS;

+ Evaluation of the vapor intrusion pathway may be warranted in the future for any existing buildings that are not planned for demolition. An evaluation of the vapor intrusion pathway was not included in Rhea's proposal for supplemental sampling at this time since the plans for retention or demolition of buildings has not been decided; and

+ Future site development plans will likely need to incorporate both Institutional (deed restrictions on groundwater use) and Engineering controls (i.e., active or passive vapor mitigation systems) to mitigate impacts from groundwater contamination.

## 7.0 ENVIRONMENTAL PROFESSIONALS

### 7.1 Preparer Qualifications

Zachary Wicks, Project Manager and Environmental Scientist III, coordinated and oversaw the Phase II ESA site investigation and reviewed the Phase II ESA report. He holds a Bachelor of Science degree in Geo-Environmental Studies and has 14 years of experience in various environmental investigations including, but not limited to: Phase I and Phase II ESAs, environmental baseline studies, long-term monitoring and sampling of groundwater, wetland delineations, and technical report writing and review.

Michael Stoehr, PG, supervised the Phase II ESA site investigation, reviewed site documentation, and prepared the Phase II ESA report. He holds a Bachelor of Science degree in Geology as well as a Master of Science degree in Geo-Environmental Studies and has six years of experience related to environmental investigations including, but not limited to: Phase I and Phase II ESAs, groundwater sampling, infiltration testing, geophysical investigations, and technical report writing and review.

Erik Hartle, Geologic Specialist I, performed the Phase II ESA site investigation, gathered Site documentation, and prepared the analytical data tables and supporting documentation under the supervision of Zachary Wicks and Michael Stoehr. Erik Hartle holds a Bachelor of Science degree in Geology and has over six years of experience in UST and AST inspections, erosion and sediment control inspections, long-term monitoring and sampling of groundwater, and technical report writing. The resumes of Zach Wicks, Michael Stoehr, and Erik Hartle are included in Appendix F.

### 7.2 Environmental Professional Statement and Signature

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 Code of Federal Regulations (CFR) 312, and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. I have developed and performed the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Zachary Wicks, Project Manager Environmental Professional

## 8.0 REFERENCES

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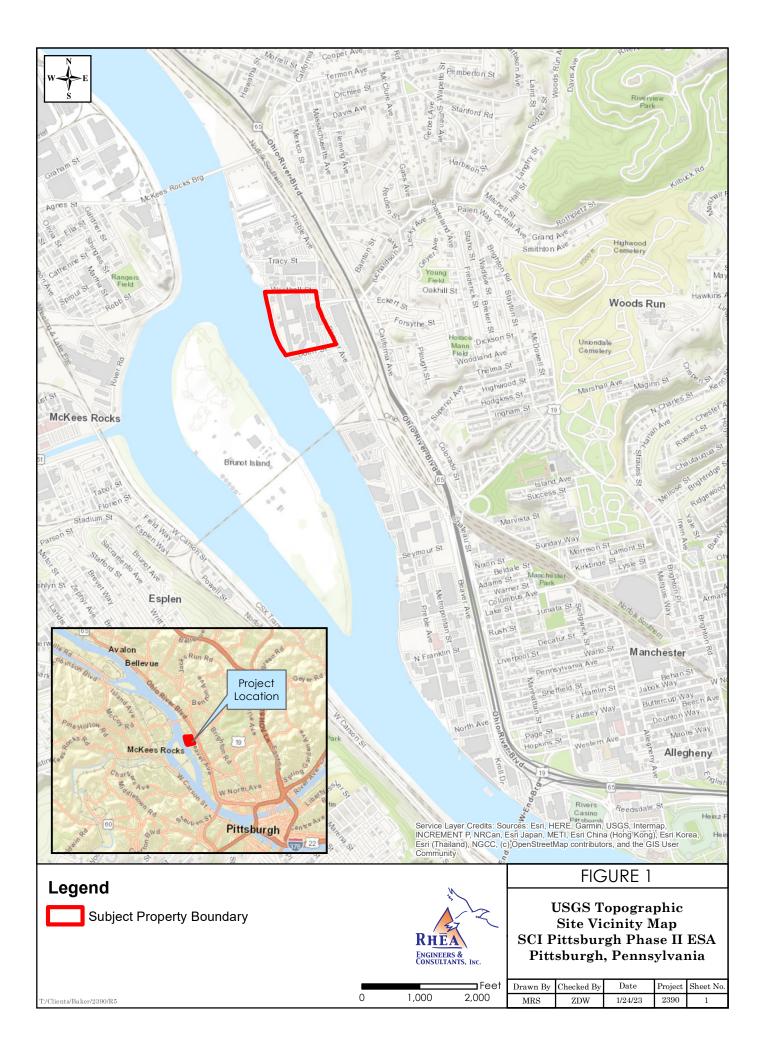
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# **FIGURES**





- 1 Front House
- 2 Main Penitentiary Building North Wing
- 3 Main Penitentiary Building South Wing
- 4 Operations Building
- 5 Housing Unit A
- 6 Housing Unit B
- 7 Administration Complex
- 8 Auditorium
- 8A Dietary Storage
- 9 Institution Warehouse
- 10 Services Building
- 11 Correctional Industries A
- 12 Correctional Industries B
- 13 Correctional Industries C
- 14 Maintenance Office
- 15 Dining Hall
- 16 Gym
- 17 Maintenance Building
- 18 Library, Chapel, Education 19 Exercise Pavilion
- 21 Interior Pump House
- 22 Guard Station
- 23 Maintenance Repair
- 24 Storage Building
- 25 Scale House
- 26 Health Services
- 27 Boiler Plant
- 27A Power House
- 28 Maintenance Shops
- 29 Maintenance Welding Shop
- 31 Sewage Pump House
- 32 Maintenance Storage Building
- 35 Vehicle Maintenance
- 36 Modular Building
- 37 Modular Building
- 38 Mail Trailer
- 39 CERT
- 40 Mechanical/Electrical Equipment Yard
- 41 Visitors Courtyard
- 42 Staff Lockers/Wellness Center
- 43 Water Tower

ce: Esri, Maxar, Ea

## FIGURE 2

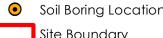
Site Layout Map SCI Pittsburgh Phase II ESA Pittsburgh, Pennsylvania

Drawn By	Checked By	Date	Project	Sheet No.
MRS	ZDW	1/24/23	2390	2









T/Clients/Baker/2390/R5

MW-0	8
Sampled 1/1	7/2023
Constituent	Concentration
TAL Metals	; (ug/L)
Iron	440
Manganese	3,000
MW-04	
Sampled 1/12/20	)23
Constituent	Concentration
Volatile Organic Compo	ounds (ug/L)
Tetrachloroethene (PCE)	63.7
MW-10	
Sampled 1/16/2	2023
Constituent	Concentration
TAL Metals (v	ıg/L)
Arsenic	39
Iron	72,500
Manganese	18,700
MW-05	
Sampled 1/13/20	)23
Constituent	Concentration
Volatile Organic Compo	ounds (ug/L)
Tetrachloroethene (PCE)	27.2
MW-11	
Sampled 1/16/2	
Constituent	Concentration
TAL Metals (u	
Arsenic	13
Iron	13,200
Manganese	8,200
MW-1	2
Sampled 1/1	
Constituent	
TAL Metals	3/2023 Concentration
TAL Metals	3/2023 Concentration s (ug/L)
	3/2023 Concentration



## Legend



Temporary Monitoring Well Location

Site Boundary

NOTES: MW = Monitoring Well ug/L = microgram per liter The highest value between the parent sample (MW-05) and duplicate (MW-05D) is presented.

300 Fe 75 0 150

T/Clients/Baker/2390/R5

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		MW-03		8	V	V <del>F</del> E
	Sam	pled 1/12	/2023		60	Ś
	Constitue	nt	Concen	tration		1
	Volatile Orga	nic Com	pounds	(ug/L)		1
	Tetrachloroether	ne (PCE)	20	07		1
	Trichloroethene	e (TCE)	10	.9	9	
	TAL	Metals (	(ug/L)			+ 1/1 1
	Manganes	se	3,3	00		11/1
	N'NIP		- AND			
-	MW	/-02		1915	E of	-
1	Sampled		3		A ton	3 1
	Constituent	Concent		Y		
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1	Manganese	45			A DAS	15 the
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		MW-0	5			1 1
	Sar	npled 1/1	3/2023			
K	Constitue	nt	Conce	ntration		
1	Volatile Org	anic Coi	npounds	s (ug/L)		H. I.
	Tetrachloroether	ne (PCE)		21		
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	A-1Z	SC	I Pittsbu	urgh Pha	se II ES	SA
	RHEA	I	Pittsburg	h, Penns	ylvania	a
eet	ENGINEERS &	Drawn By	Checked By	Date	Project	Sheet No.
	CONSULIMITIS, INC.	ZDW	MRS	2/2/23	2390	5

## **TABLES**



# TABLE 1ASUMMARY OF ANALYTICAL RESULTS COMPARED TO APPLICABLEACT 2 STANDARDS FOR SURFACE SOILSCI Pittsburgh Phase II ESA3001 Beaver Avenue, Pittsburgh, Pennsylvania

SAMPLE ID	Used Aquifer Non- Residential 100 X GW MSC TDS	Used Aquifer Non- Residential Generic Value TDS ≤	Non-Residential Direct Contact MSC (0-2 Feet)*	SB-01-0-2	SB-02-0-2	SB-03-0-2	2 SB-04-0-2	SB-05-0-2	SB-06-0-2	SB-07-0-2	SB-08-0-2	SB-09-0-2	SB-10-0-2	SB-11-0-2	SB-12-0-2
SAMPLE DATE	≤ <b>2500</b> *	2500*	(0-2 reel)*	1/12/2023	1/11/2023	1/11/2023	1/11/2023	1/11/2023	1/11/2023	1/11/2023	1/13/2023	1/13/2023	1/13/2023	1/12/2023	1/12/2023
Volatile Organic Compounds (Method 8260B)															
Acetone	8,800	980	10,000	0.0055 U	0.0056 U	J 0.0211	0.0400	0.0052 U	0.0050 U	0.0112	0.0072 U	0.0082	0.0060 U	0.0114	0.0078
Carbon Disulfide	620	530	10,000	0.0011 U	0.0011 U	J 0.0014	U 0.0011	U 0.0010 U	0.0010 U	0.0011 U	0.0014 U	0.0089	0.0012 U	0.0068	0.0030
Methyl Cyclohexane**	NA	NA	NA	0.0011 U	0.0011 U	J 0.0014	U 0.0012	0.0010 U	0.0010 U	0.0011 U	0.0014 U	0.0013 U	0.0012 U	0.0013 U	U 0.0012 U
Metals - Target Analyte List (Method 6010B)	-										-				<u> </u>
Aluminum, Total	NA	NA	190,000	9,000	7,250	11,100	8,670	9,390	9,400	8,020	9,780	20,900	7,850	12,000	8,960
Antimony, Total	0.6	27	1,300	1 U	1.7	0.97	U 1.1	U 1.1 U	1.1 U	1.7	1.6	1.1 U	2.1	1 U	J 1.1 U
Arsenic, Total	1	29	61	9.5	17.2	12.1	10.3	12	10.9	11.8	13.7	3.6	17.1	14.3	15.4
Barium, Total	200	8,200	190,000	74.9	138	132	153	145	232	113	148	444	119	232	126
Beryllium, Total	0.4	320	6,400	0.66	0.79	1.3	0.73	0.73	0.78	0.92	0.95	3.3	1.1	1.40	1.1
Cadmium, Total	0.5	38	1,600	0.5 U	0.65	0.48	U 0.55	U 0.55 U	0.55 U	0.57 U	0.86	0.54 U	1.1	0.51 U	J 0.67
Calcium, Total	NA	NA	NA	25,600	3,960	36,800	2,080	2,200	1,760	21,700	4,100	120,000	3,250	37,900	9,300
Chromium, Total	NA	NA	NA	11.8	17.9	13.8	12.8	14.6	13.7	9.9	29.9	13	34.7	10	13
Cobalt, Total	2.9	130	960	8.8	9.5	8	11.7	11.6	11.7	6.9	12	2.7 U	10.6	6.7	9.5
Copper, Total	100	43,000	100,000	14.8	44.0	20.3	14.8	19.7	18.3	25.9	38.3	7.2	35.9	18.1	37.6
Hexavalent Chromium (Method 7196A)	10	190	180	2.3 U	2.4 U	J 2.2	U 2.2	U 2.3 U	2.4 U	2.4 U	2.3 U	2.1 U	2.3 U	2.2 U	J 2.2 U
Iron, Total	NA	NA	190,000	25,500	27,600	26,400	27,300	29,100	27,200	21,400	29,900	8,710	30,700	24,900	30,000
Lead, Total	0.5	450	1,000	12.1	122	94.7	26.9	54.8	35	157	118	124	108	61	57.2
Magnesium, Total	NA	NA	NA	2,870	1,550	4,830	1,560	1,740	1,630	3,150	1,870	22,000	1,220	7,470	2,530
Manganese, Total	30	2,000	190,000	1,270	731	730	784	829	1,090	718	754	1,660	591	2,850	423
Mercury, Total (Method 7471B)	0.2	10	510	0.049 U	0.12	0.12	0.063	0.1	0.053 U	0.083	0.17	0.051 U	0.29	0.1	0.18
Nickel, Total	10	650	64,000	14.9	19.2	16	19.5	19.3	21.8	14.8	23.6	12	24.3	12.6	18.6
Potassium, Total	NA	NA	NA	1,100	896	1,270	1,150	979	1,210	889	1,040	1,660	705	1,320	982
Selenium, Total	5	26	16,000	2.5 U	2.5 U	J 2.4	U 2.7	U 2.8 U	2.8 U	2.9 U	2.5 U	2.7 U	2.8 U	2.6 U	J 2.6 U
Silver, Total	10	84	16,000	1.0 U	1 I	J 0.97	U 1.1	U 1.1 U	1.1 U	1.1 U	0.98 U	1.1 U	1.1 U	1.0 U	J 1.1 U
Sodium, Total	NA	NA	NA	235	50.4 U	J 177	54.8	U 55.5 U	55.1 U	107	49.2 U	642	58.9	250	208
Thallium, Total	0.2	14	32	0.5 U	0.5 U	J 0.48	U 0.55	U 0.55 U	0.55 U	0.57 U	0.49 U	0.54 U	0.57 U	0.51 U	J 0.53 U
Trivalent Chromium	10	190,000	190,000	11.8	17.9	13.8	12.8	14.6	13.6	9.9	29.6	13	34.5	10	13
Vanadium, Total	0.68	680	220	22	18.1	18.2	19.3	20.4	18.9	15.4	21.7	17	19.6	17.4	17.7
Zinc, Total	200	12,000	190,000	56.9	152	82.3	68.5	87.5	88.5	71.2	138	49.7	171	78.1	119

Notes:

All concentrations presented in milligrams/kilogram (mg/kg)

\*PADEP Medium Specific Concentrations (MSCs), November 2021

\*\*No Act 2 or MSC standard could be identified for this constituent

Bold, grey shaded values shall be used to determine compliance with Act 2.

Bold values indicate detections.

Bold, red shaded values indicate an exceedance of the Act 2 Standard

U - Not detected

NA - Not applicable.

Refer to Appendix C for a full list of analytical results



#### TABLE 1B SUMMARY OF ANALYTICAL RESULTS COMPARED TO APPLICABLE ACT 2 STANDARDS FOR SUBSURFACE SOIL SCI Pittsburgh Phase II ESA 3001 Beaver Avenue, Pittsburgh, Pennsylvania

SAMPLE ID	Used Aquifer Non- Residential 100 X GW MSC TDS ≤ 2500*	Used Aquifer Non- Residential Generic Value TDS ≤ 2500*	Non-Residential Direct Contact MSC (2-15 Feet)*	SB-01-10-12	SB-02-10-1	2 SB-03-8-10 1/11/2023	SB-04-14-16	SB-05-4-6	SB-06-8-10 1/11/2023	SB-07-2-4	SB-08-6-8	SB-09-4-6	SB-10-4-6	SB-11-6-8	SB-12-10-12
SAMPLE DATE		2000													<u> </u>
Volatile Organic Compounds (Method 8260B)	0.000	000	10.000	0.0000				0.0055 11		0.0104	0.0007 11	0.0070 11	0.0055 11	0.0111	0.0100
Acetone	8,800	980	10,000	0.0069	0.0055	J 0.0051 U	0.0054 U	0.0055 U	0.0045 U	0.0104	0.0065 U	0.0053 U	0.0077 U	0.0111	0.0128
Methylene Chloride	0.5	0.076	10,000	0.0094 U	0.0011	0.0010 U	0.0011 U	0.0011 U	0.0009 U	0.0015 U	0.0013 U	0.0011 U	0.0015 U	1	J 0.00095 U
Tetrachloroethene	0.5	0.43	3,600	0.0094 U	0.0011	J 0.0010 U	0.0150	0.0011 U	0.0041	0.0015 U	0.0013 U	0.0011 U	0.0015 U	0.0013 U	J 0.00095 U
Metals - Target Analyte List (Method 6010B)															
Aluminum, Total	NA	NA	190,000	6,330	4,020	4,320	5,890	10,200	7,560	11,100	6,190	9,650	11,500	5,500	7,270
Antimony, Total	0.6	27	190,000	0.99 U	1 1	J 1 U	1.2 U	1.1 U	1 U	1.1 U	1.1 U	1.3	1 U	1.1 U	J 1.2 U
Arsenic, Total	1	29	190,000	11.2	8.1	11.5	10.6	12	11.8	10.9	7.8	9.8	9.9	12.4	8.4
Barium, Total	200	8,200	190,000	43.5	47.6	51.4	64.7	120	92.1	143	77.5	122	215	72.3	163
Beryllium, Total	0.4	320	190,000	0.49 U	0.51	J <b>0.59</b>	0.6 U	0.76	0.74	1.5	0.54	0.78	0.9	0.59	0.8
Cadmium, Total	0.5	38	190,000	0.49 U	0.51	J 0.52 U	0.6 U	0.56 U	0.5 U	0.57 U	0.53 U	0.51 U	0.51 U	0.57 U	J 0.58 U
Calcium, Total	NA	NA	NA	935	566	10,100	904	1,710	1,220	40,600	1,100	2,710	1,990	2,090	2,400
Chromium, Total	NA	NA	NA	13.1	7.8	11.9	10.2	13.9	12.5	10.6	10.5	15.9	15.7	11.3	11.2
Cobalt, Total	2.9	130	190,000	10.6	4.1	6.6	9.5	12.7	9.8	6.4	7.9	9.7	13	7.7	10.3
Copper, Total	100	43,000	190,000	14.2	10.6	12.6	13.1	17	15.5	24.8	10.8	24.2	15.8	13	13.9
Hexavalent Chromium (Method 7196A)	10	190	140,000	2.3 U	2.1	J 2.3 U	2.4 U	2.4 U	2.3 U	2.5 U	2.3 U	2.2 U	2.4 U	2.4 U	J 2.4 U
Iron, Total	NA	NA	190,000	29,900	24,300	24,800	27,700	30,600	29,400	20,100	24,300	32,700	30,200	27,600	24,900
Lead, Total	0.5	450	190,000	12.8	7.9	15.9	11.8	15.7	13.3	84.7	11.2	33.5	15.5	13.4	17.7
Magnesium, Total	NA	NA	NA	1,340	971	1,540	1,480	2,280	1,540	5,860	1,310	2,000	1,890	1,310	1,410
Manganese, Total	30	2,000	190,000	701	569	500	747	990	674	1,210	541	574	1,120	382	962
Mercury, Total (Method 7471B)	0.2	10	190,000	0.054 U	0.046	J 0.05 U	0.057 U	0.057 U	0.056 U	0.13	1.3	0.25	0.06 U	0.11	0.072
Nickel, Total	10	650	190,000	14.8	10.4	12.8	15.1	22.3	18.2	14.3	14.4	19.3	25.3	13.6	18.8
Potassium, Total	NA	NA	NA	672	314	447	533	867	652	1,120	674	1580	1,300	737	842
Selenium, Total	5	26	190,000	2.5 U	2.5	J 2.6 U	3.0 U	2.8 U	2.5 U	2.9 U	2.7 U	2.5 U	2.6 U	2.8 U	J 2.9 U
Silver, Total	10	84	190,000	0.99 U	1 1	J 1 U	1.2 U	1.1 U	1 U	1.1 U	1.1 U	1 U	1 U	1.1 U	J 1.2 U
Sodium, Total	NA	NA	NA	232	50.6 1	J 52.3 U	59.8 U	56.2 U	50.5 U	150	53 U	57.5	51.2 U	139	214
Thallium, Total	0.2	14	190,000	0.49 U	0.51	J 0.52 U	0.6 U	0.56 U	0.5 U	0.57 U	0.53 U	0.51 U	0.51 U	0.57 U	J 0.58 U
Trivalent Chromium	10.0	190,000	190,000	12.1	7.8	11.9	10.2	13.9	12.5	10.6	10.5	15.9	15.7	11.3	11.2
Vanadium, Total	0.68	680	190,000	16.6	11	12.2	15.7	21.4	17.6	15.6	15.2	23.2	21.9	15	15.7
Zinc, Total	200	12,000	190,000	55.5	39.9	55	54.9	73.7	63.8	63	50	53.3	88.1	51.3	66.2

Notes:

All concentrations presented in milligrams/kilogram (mg/kg) \*PADEP Medium Specific Concentrations (MSCs), November 2021 Bold, grey shaded values shall be used to determine compliance with Act 2.

Bold values indicate detections.

Bold, red shaded values indicate an exceedance of the Act 2 Standard

U - Not Detected

NA - Not applicable.

Refer to Appendix C for a full list of analytical results



#### TABLE 2

SUMMARY OF ANALYTICAL RESULTS COMPARED TO APPLICABLE ACT 2 STANDARDS FOR GROUNDWATER SCI Pittsburgh Phase II ESA 3001 Beaver Avenue, Pittsburgh, Pennsylvania

SAMPLE ID	Used Aquifer Non- Residential	MW-0	1	MW-0	2	MW-03	MW-	04	MW-0	5	MW-05	5D	MW-0	6	MW-07		MW-0	8	WM-0	9	MW-1	0	MW-1	1	MW-1	2
SAMPLE DATE	TDS ≤ 2500*	1/16/20	23	1/12/20	23	1/12/2023	1/12/2	023	1/13/20	23	1/13/20	23	1/13/20	23	1/16/2023		1/17/202	23	1/16/20	23	1/16/20	23	1/16/20	23	1/13/20	23
Volatile Organic Compounds (Method 8260C)	-					-															-					
cis-1,2-Dichloroethene	70	1	U	1	U	26.3	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl acetate	97,000	6.9	MB	2	U	2 U	2	U	2	U	2	U	2	U	8.9 N	<b>IB</b>	2	U	5.9	MB	7.7	MB	6.1	MB	2	U
Tetrachloroethene (PCE)	5	3.7		1.7		207	63.7		26.3		27.2		21		4.7		1	U	1	U	1	U	1	U	1	U
Toluene	1,000	1	U	1	U	2.4	1	U	1	U	1	U	1	U	1.7		1	U	1	U	1	U	1	U	1	U
Trichloroethene (TCE)	5	1.3		1		10.9	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Dissolved Metals - Target Analyte List (Method 6020A)	•			-					-				-			-			8							
Aluminum <sup>(1)</sup>	200	89	U	89	U	89 U	89	U	89	U	89	U	89	U	89	U	120		89	U	89	U	89	U	89	U
Arsenic	10	3	U	3	U	3 U	3	U	3	U	3	U	3	U	3	U	8.4		3	U	39		13		8.5	
Barium	2,000	61		110		53	54		47		47		63		48		130		77		200		370		140	
Calcium	NA	160,000		161,000		68,300	41,900		117,000		116,000		51,200		75,500		61,100		96,800		115,000		179,000		96,500	
Hexavalent Chromium (Method 7196A) <sup>(3)</sup>	100	10	U	10	U	10 U	10	U	10	U	10	U	10	U	10	U	1,000	U	10	U	11		10	U	10	U
Iron <sup>(1)</sup>	300	78		56	U	56 U	56	U	56	U	56	U	56	U	56	U	440		56	U	72,500		13,200		6,200	
Magnesium	NA	41,700		31,300		13,100	5,600		12,600		12,600		2,800		7,900		11,300		7,500		18,500		23,500		7,100	
Manganese <sup>(2)</sup>	300	180		450		3,300	5.6	U	36		35		6.7		140		3,000		67		18,700		8,200		2,800	
Potassium	NA	16,000		14,300		3,700	8,800		4,800		4,800		3,000		5,100		5,700		7,000		2,400		8,500		9,600	
Sodium	NA	440,000		385,000		25,800	19,000		22,600		22,200		9,700		26,000		61,400		104,000		62,900		71,400		137,000	
Zinc	2,000	5.6	U	5.6	U	5.6 U	5.6	U	5.6	U	5.6	U	5.6	U	5.6	U	7.2		16		6.1		8.4		5.6	

Notes:

All concentrations presented in micrograms per liter ( $\mu$ g/L)

\*PADEP Medium Specific Concentrations (MSCs), November 2021

Bold, grey shaded values shall be used to determine compliance with Act 2.

Bold values indicate detections

Bold, red shaded values indicated an exceedance of the Act 2 Standard

(1) Indicates the standard is a Secondary Maximum Contaminant Level

(2) Indicates the standard is a Lifetime Health Advisory Level

(3) No standard for Chromium (VI) in groundwater could be identified, therefore the Total Chromium standard was used

NA - Not applicable.

U - Not detected

 $\ensuremath{\operatorname{MB}}$  - Constituent detected in associated method blank

Refer to Appendix C for a full list of analytical results

## APPENDIX A

# Soil Sample Collection Reports



Project Name:	SCI Pitts	burgh Phase II ESA	Project #: 2390
Date Collected:	1/12/2023	Collected By: Tyler Newell	
Boring ID: <u>SB-0</u>	01		

Depth of Sample	Soil Description/Time Collected (Color, Composition, Staining, Odor)	Field Reading <sup>(1)</sup>
0-2	Asphalt to dense clay fill material, dry	13.5
2-4	Brown dense clay, trace sand, damp	1.1
4-6	Brown fine sand, little clay, damp	1.2
6-8	Brown homogenous fine sand, little clay, damp	2.1
8-10	Brown homogenous fine sand, some clay, damp	2.5
10-12	Brown clay and sand, cont. rounded alluvium	3.5
12-14	Brown sand and alluvial gravels, damp	2.8
14-16	Brown sand and fine alluvial gravels, damp	3.2

#### Sampling Method: Grab

Composite Sample: \_\_\_\_\_ Composite Sample ID #:<u>SB-01-0-2/SB-01-10-12</u> Describe Compositing:

Sample Types Col	llected	
$\underline{\text{Type}^{(2)}}$	<u>Per Sample?</u>	Per Composite?
VOCs/SVOCs/Metals/PCBs/PAHs/Dioxins	$Y \boxtimes N \square$	$Y\square$ N $\boxtimes$
Volume: Container Type: <u>Terracore k</u>	it, one 8 oz glass jar,	one 4 oz glass jar
Date Received by Lab: 1/12/2023 Laboratory	v. ALS	

Date Received by Lab: <u>1/12/2023</u> Laboratory: <u>ALS</u> Weather Conditions: <u>Cloudy</u>, low 50's

Remarks: <u>0-5ft = 4ft recovery, 5-10ft = 3.5ft recovery, 10-15ft = 3ft recovery</u> Converted to MW-01 at 30ft bgs

<sup>(1)</sup> Organic vapor analysis, pocket penetrometer, etc.



Project Name:	SCI Pitts	burgh Phase II ESA	Project #: 2390
Date Collected:	1/11/2023	Collected By: Tyler Newell	
Boring ID: <u>SB-0</u>	)2		

Depth of Sample	Soil Description/Time Collected (Color, Composition, Staining, Odor)	Field Reading <sup>(1)</sup>
0-2	Organic matter to clay trace sand, cont. coal frag.	0.3
2-4	Brown silty clay, damp	0.1
4-6	Brown fine sand, little clay, damp	0.1
6-8	Brown fine sand and clay, cont. sandstone frag. moist	0.2
8-10	Brown fine sand, cont. rounded alluvium, damp	0.2
10-12	Brown fine sand, cont. rounded alluvium, damp	0.4
12-14	Brown fine sand, cont. rounded alluvium, damp	0.3
14-16	Brown fine sand, cont. rounded alluvium, damp	0.3

#### Sampling Method: Grab

Composite Sample: \_\_\_\_\_ Composite Sample ID #:<u>SB-02-0-2/SB-02-10-12</u> Describe Compositing:

Sample Types Collected										
<u>Type<sup>(2)</sup></u>	<u>Per Sa</u>	ample?	<u>Per Con</u>	<u>nposite?</u>						
VOCs/SVOCs/Metals/PCBs/PAHs/Dioxins	Y⊠	$N\square$	$Y\square$	$N \boxtimes$						
Volume: Container Type: <u>Terracore ki</u>	t, one 8 oz	glass jar,	one 4 oz glas	s jar						

Date Received by Lab: <u>1/12/2023</u> Laboratory: <u>ALS</u> Weather Conditions: Sunny, mid 40's

Remarks: <u>0-5ft = 4ft recovery</u>, <u>5-10ft = 3.0ft recovery</u>, <u>10-15ft = 4ft recovery</u> Converted to MW-02 at 24ft bgs

<sup>(1)</sup> Organic vapor analysis, pocket penetrometer, etc.



Project Name:	SCI Pitts	burgh Phase II ESA	Project #: 2390
Date Collected:	1/11/2023	Collected By: Tyler Newell	
Boring ID: <u>SB-0</u>	)3		

Depth of Sample	Soil Description/Time Collected (Color, Composition, Staining, Odor)	Field Reading <sup>(1)</sup>
0-2	Asphalt and fill material	0.5
2-4	Brown sandy clay, cont. coal frag., damp	0.1
4-6	Gray sand and gravel, damp	1.4
6-8	Gray course gravel, dry	0.3
8-10	Brown/ orange fine sand, damp	2.4
10-12	Gray course gravel, dry	0.3
12-14	Brown fine sand, damp	0.2
14 - 16	Brown fine sand, cont. rounded alluvium, damp	0.3

#### Sampling Method: Grab

Composite Sample: \_\_\_\_\_ Composite Sample ID #:<u>SB-03-0-2/SB-03-8-10</u> Describe Compositing:

Sample Types Collected					
Type <sup>(2)</sup>	<u>Per Sa</u>	ample?	<u>Per Con</u>	<u>nposite?</u>	
VOCs/SVOCs/Metals/PCBs/PAHs/Dioxins	$Y\boxtimes$	$N\square$	$Y\square$	$N \boxtimes$	
Volume: Container Type: <u>Terracore kit</u> ,	one 8 oz	glass jar,	, one 4 oz glas	s jar	

Date Received by Lab: <u>1/12/2023</u> Laboratory: <u>ALS</u> Weather Conditions: Sunny, mid 40's

Remarks: <u>0-5ft = 2.5ft recovery, 5-10ft = 4.5ft recovery, 10-15ft = 4.5ft recovery</u> Converted to MW-03 at 19ft bgs

<sup>(1)</sup> Organic vapor analysis, pocket penetrometer, etc.



Project Name:	SCI Pitts	sburgh Phase II ESA	Project #: 2390
Date Collected:	1/11/2023	Collected By: Tyler Newell	
Boring ID: SB-0	04		

Depth of Sample	Soil Description/Time Collected (Color, Composition, Staining, Odor)	Field Reading <sup>(1)</sup>
0-2	Asphalt and fill material	0.5
2-4	Brown/ gray fine gravels, cont. coal frag., dry	0.4
4-6	Brown silty clay, damp	0.3
6-8	Brown fine sand and silt, little clay, moist	0.4
8-10	Brown fine sand and silt, wet	0.1
10-12	Brown fine sand and trace gravel, damp	0.3
12-14	Brown fine sand, cont. rounded alluvium, wet	0.3
14-16	Brown fine sand, cont. rounded alluvium, wet	0.6

#### Sampling Method: Grab

Composite Sample: \_\_\_\_\_ Composite Sample ID #:<u>SB-04-0-2/SB-04-14-16</u> Describe Compositing:

Sample Types Collected						
$Type^{(2)}$	Per S	<u>ample?</u>	<u>Per Com</u>	posite?		
VOCs/SVOCs/Metals/PCBs/PAHs/Dioxins	Y⊠	$N\square$	$Y\square$	$N \boxtimes$		
Volume: Container Type: <u>Terracore kit</u>	z, one 8 oz	z glass jar,	one 4 oz glass	s jar		
Data Pagaiwad hu Lahe 1/19/2022 Laharatawu	ATC					

Date Received by Lab: <u>1/12/2023</u> Laboratory: <u>ALS</u> Weather Conditions: <u>Sunny, mid 40's</u>

Remarks: <u>0-5ft = 4ft recovery, 5-10ft = 4.5ft recovery, 10-15ft = 4.5ft recovery</u> Converted to MW-04 at 17ft bgs

<sup>(1)</sup> Organic vapor analysis, pocket penetrometer, etc.



Project Name:	SCI Pitts	sburgh Phase II ESA	Project #: 2390
Date Collected:	1/11/2023	Collected By: Tyler Newell	
Boring ID: <u>SB-0</u>	)5		

Depth of Sample	Soil Description/Time Collected (Color, Composition, Staining, Odor)	Field Reading <sup>(1)</sup>
0-2	Organic matter and clay, cont. coal frag.	0.9
2-4	Brown silty clay, damp	1.5
4-6	Brown sandy silt, cont. sandstone frag., damp	2.6
6-8	Brown fine sand and clay, damp	1.7
8-10	Brown homogenous fine sand, damp	1.6
10-12	Brown homogenous fine sand, damp	1.4
12-14	Brown homogenous fine sand, damp	1.1
14-16	Brown homogenous fine sand, moist	1.5

#### Sampling Method: Grab

Composite Sample: \_\_\_\_\_ Composite Sample ID #:<u>SB-05-0-2/SB-05-4-6</u> Describe Compositing:

Sample Types Collected						
$Type^{(2)}$		Per Sa	ample?	<u>Per Con</u>	nposite?	
VOCs/SVOCs/Metals/PCBs/PA	Hs/Dioxins	$Y \boxtimes$	$N\square$	$Y\square$	$N \boxtimes$	
Volume: Container Typ	e: <u>Terracore kit</u> ,	one 8 oz	glass jar,	one 4 oz glas	s jar	
Date Received by Lab: 1/12/2023	Laboratory:	ALS				

Weather Conditions: Sunny, mid 40's

Remarks: <u>0-5ft = 5ft recovery, 5-10ft = 5ft recovery, 10-15ft = 4.ft recovery</u> Converted to MW-05 at 20ft bgs

<sup>(1)</sup> Organic vapor analysis, pocket penetrometer, etc.



Project Name:	SCI Pitts	burgh Phase II ESA	Project #: 2390
Date Collected:	1/11/2023	Collected By: Tyler Newell	
Boring ID: <u>SB-0</u>	6		

Depth of Sample	Soil Description/Time Collected (Color, Composition, Staining, Odor)	Field Reading <sup>(1)</sup>
0-2	Organic matter and silty clay	6.8
2-4	Brown silty clay, little sand. damp	1.2
4-6	Brown fine sand, moist	0.4
6-8	Brown clayey sand, wet	0.4
8-10	Brown fine sand, little clay, moist	1.5
10-12	Brown clayey sand, damp	1.0
12-14	Brown homogenous fine sand, damp	0.6
14-16	Brown homogenous fine sand, damp	1.0

## Sampling Method: Grab

Composite Sample: \_\_\_\_\_ Composite Sample ID #:<u>SB-06-0-2/SB-06-8-10</u> Describe Compositing:

Sample Types Collected						
$\underline{\text{Type}^{(2)}}$	<u>Per Sa</u>	ample?	<u>Per Con</u>	nposite?		
VOCs/SVOCs/Metals/PCBs/PAHs/Dioxins	Y⊠	$N\square$	$Y\square$	$N \boxtimes$		
Volume: Container Type: Terracore kit	, one 8 oz	glass jar, o	one 4 oz glas	s jar		
Date Received by Lab: <u>1/12/2023</u> Laboratory: Weather Conditions: Sunny, mid 40's	ALS					

Remarks: <u>0-5ft = 5ft recovery, 5-10ft = 5ft recovery, 10-15ft = 4ft recovery</u> Converted to MW-06 at 20ft bgs

<sup>(1)</sup> Organic vapor analysis, pocket penetrometer, etc.



Project Name:	SCI Pitts	sburgh Phase II ESA	Project #: 2390
Date Collected:	1/11/2023	Collected By: Erik Hartle	
Boring ID: SB-0	)7		

Depth of Sample	Soil Description/Time Collected (Color, Composition, Staining, Odor)	Field Reading <sup>(1)</sup>
0-2	Asphalt and fill material	0.9
2-4	Brown silty clay and sand, cont. coal frag.	1.3
4-6	Brown silty clay and trace sand	1.2
6-8	Brown silty clay and trace sand	1.2
8-10	Brown homogenous clay, trace sand, damp	0.8
10-12	Brown dense clay, cont. coal frag.	0.8
12-14	Brown dense clay, damp	0.8
14-16	Brown dense clay to moist sand	0.7

#### Sampling Method: Grab

Composite Sample: \_\_\_\_\_ Composite Sample ID #:<u>SB-07-0-2/SB-0-2-4</u> Describe Compositing:

Sample Types Collected						
$\underline{\text{Type}^{(2)}}$	<u>Per Sam</u>	<u>ple?</u> <u>Pe</u>	er Composite?			
VOCs/SVOCs/Metals/PCBs/PAHs/Dioxins	Y⊠	N III III	$Y\square$ N $\boxtimes$			
Volume: Container Type: <u>Terracore k</u>	it, one 8 oz gla	ass jar, one 4	oz glass jar			
Date Received by Lab: 1/12/2023 Laboratory	: ALS					

Weather Conditions: Sunny, mid 40's

Remarks: <u>0-5ft = 3ft recovery, 5-10ft = 4.5ft recovery, 10-15ft = 5ft recovery</u> Converted to MW-07 at 20ft bgs

<sup>(1)</sup> Organic vapor analysis, pocket penetrometer, etc.



Project Name:	SCI Pitts	burgh Phase II ESA	Project #: 2390
Date Collected:	1/13/2023	Collected By: Tyler Newell	
Boring ID: <u>SB-0</u>	8		

Depth of Sample	Soil Description/Time Collected (Color, Composition, Staining, Odor)	Field Reading <sup>(1)</sup>
0-2	Brown clay and gravel fill material, cont. coal frag.	0.1
2-4	Brown dense clay and sand, damp	0.0
4-6	Brown dense clay and sand, cont. brick frag. damp	0.0
6-8	Brown clay and fine sand, damp	0.1
8-10	Brown fine sand, little clay, damp	0.0
10-12	Brown homogenous clayey sand, wet	0.0
12-14	Brown homogenous clayey sand, wet	0.0
14-16	Brown homogenous clayey sand, wet	0.0

#### Sampling Method: Grab

Composite Sample: \_\_\_\_\_ Composite Sample ID #:<u>SB-08-0-2/SB-08-6-8</u> Describe Compositing:

Sample Types Collected					
Type <sup>(2)</sup>	<u>Per S</u>	ample?	<u>Per Con</u>	nposite?	
VOCs/SVOCs/Metals/PCBs/PAHs/Dioxins	Y⊠	$N\square$	$Y\square$	$N \boxtimes$	
Volume: Container Type: <u>Terracore</u>	kit, one 8 o	z glass jar,	one 4 oz glas	s jar	

Date Received by Lab: <u>1/13/2023</u> Laboratory: <u>ALS</u> Weather Conditions: Cloudy, low 30's

Remarks: <u>0-5ft = 3.5ft recovery</u>, <u>5-10ft = 3.5ft recovery</u>, <u>10-15ft = 3ft recovery</u> Converted to MW-08 at 20ft bgs

<sup>(1)</sup> Organic vapor analysis, pocket penetrometer, etc.



Project Name:	SCI Pitts	sburgh Phase II ESA	Project #: 2390
Date Collected:	1/13/2023	Collected By: Tyler Newell	
Boring ID: SB-0	9		

Depth of Sample	Soil Description/Time Collected (Color, Composition, Staining, Odor)	Field Reading <sup>(1)</sup>
0-2	Asphalt to dense clay fill material	0.1
2-4	Brown dense clay and silt, damp	0.0
4-6	Brown clay and gravel, dry	0.2
6-8	Brown clay and gravel, dry	0.0
8-10	Brown clay and fine gravels, cont. brick frag.	0.0
10-12	Brown clay and gravel fill, moist	0.0
12-14	Brown clay and gravel fill, moist	0.0
14-16	Wood fill, wet	0.0
·		

#### Sampling Method: Grab

Composite Sample: \_\_\_\_\_ Composite Sample ID #:<u>SB-09-0-2/SB-09-4-6</u> Describe Compositing:

Sample Types Collected					
Type <sup>(2)</sup>	Per Sa	ample?	<u>Per Con</u>	<u>nposite?</u>	
VOCs/SVOCs/Metals/PCBs/PAHs/Dioxins	$Y\boxtimes$	$N\square$	$Y\square$	$N \boxtimes$	
Volume: Container Type: <u>Terracore kit</u>	z, one 8 oz	z glass jar,	one 4 oz glas	s jar	

Date Received by Lab: <u>1/13/2023</u> Laboratory: <u>ALS</u> Weather Conditions: Cloudy, low 30's

Remarks: <u>0-5ft = 3.5ft recovery</u>, <u>5-10ft = 0.5ft recovery</u>, <u>10-15ft = 1.5ft recovery</u> Converted to MW-09 at 20ft bgs

<sup>(1)</sup> Organic vapor analysis, pocket penetrometer, etc.



Project Name:	SCI Pitts	sburgh Phase II ESA	Project #: 2390
Date Collected:	1/13/2023	Collected By: Tyler Newell	
Boring ID: SB-1	0		

Depth of Sample	Soil Description/Time Collected (Color, Composition, Staining, Odor)	Field Reading <sup>(1)</sup>
0-2	Asphalt to dense clay fill material	0.1
2-4	Brown dense clay and gravel fill	0.2
4-6	Brown dense clay and sand, damp	0.2
6-8	Brown clay and fine gravel, damp	0.1
8-10	Brown clay and fine gravels, fill, moist	0.2
10-12	Brown clay and fine sand, moist	0.1
12-14	Brown homogenous clay and fine sand, moist	0.1
14-16	Brown homogenous clay and fine sand, moist	0.1

#### Sampling Method: Grab

Composite Sample: \_\_\_\_\_ Composite Sample ID #:<u>SB-10-0-2/SB-10-4-6</u> Describe Compositing:

Sample Types Collected					
Type <sup>(2)</sup>	<u>Per Sa</u>	ample?	Per Com	posite?	
VOCs/SVOCs/Metals/PCBs/PAHs/Dioxins	$Y \boxtimes$	$N\square$	$Y\square$	$N \boxtimes$	
Volume: Container Type: Terracore kit,	one 8 oz	glass jar,	one 4 oz glass	s jar	

Date Received by Lab: <u>1/13/2023</u> Laboratory: <u>ALS</u> Weather Conditions: Cloudy, low 30's

Remarks: <u>0-5ft = 5ft recovery</u>, <u>5-10ft = 1ft recovery</u>, <u>10-15ft = 2.5ft recovery</u> Converted to MW-10 at 25ft bgs

<sup>(1)</sup> Organic vapor analysis, pocket penetrometer, etc.



Project Name:	SCI Pitts	burgh Phase II ESA	Project #: 2390
Date Collected:	1/12/2023	Collected By: Tyler Newell	
Boring ID: SB-1	1		

Depth of Sample	Soil Description/Time Collected (Color, Composition, Staining, Odor)	Field Reading <sup>(1)</sup>
0-2	Asphalt and fill material	1.8
2-4	Gray clay and fine gravel, damp	0.4
4-6	Brown gravel and sand to clay, damp	0.6
6-8	Brown clayey sand, cont. sandstone frag., damp	1.4
8-10	Brown clay, trace sand, moist	0.8
10-12	Brown clay and course gravel, cont. brick frag., wet	0.2
12-14	Brown clay and fine gravel, fill, wet	0.3
14-16	Brown clay and sand, cont. brick frag., wet	0.1

#### Sampling Method: Grab

Composite Sample: \_\_\_\_\_ Composite Sample ID #:<u>SB-11-0-2/SB-11-6-8</u> Describe Compositing:

Sample Types Collected							
Type <sup>(2)</sup>	Per Sa	ample?	<u>Per Con</u>	<u>nposite?</u>			
VOCs/SVOCs/Metals/PCBs/PAHs/Dioxins	$Y \boxtimes$	$N\square$	$Y\square$	$N \boxtimes$			
Volume: Container Type: Terracore kit,	one 8 oz	glass jar	, one 4 oz glass	s jar			

Date Received by Lab: <u>1/13/2023</u> Laboratory: <u>ALS</u> Weather Conditions: Cloudy, low 30's

Remarks: <u>0-5ft = 4.5ft recovery</u>, <u>5-10ft = 2.5ft recovery</u>, <u>10-15ft = 4ft recovery</u> Converted to MW-11 at 20ft bgs

<sup>(1)</sup> Organic vapor analysis, pocket penetrometer, etc.



Project Name:	SCI Pitts	burgh Phase II ESA	Project #: 2390
Date Collected:	1/12/2023	Collected By: Tyler Newell	
Boring ID: SB-1	2		

Depth of Sample	Soil Description/Time Collected (Color, Composition, Staining, Odor)	Field Reading <sup>(1)</sup>
0-2	Asphalt and fill material	1.8
2-4	Brown clay and gravel, cont. sandstone frag., damp	2.2
4-6	Brown clay and sand, damp	2.1
6-8	Brown clay, trace sand, damp	3.1
8-10	Brown clay, trace sand, moist	2.7
10-12	Brown clay, little gravel, fill, moist	4.4
12-14	Brown clay, little gravel, fill, moist	2.7
14-16	Brown clay and gravel, cont. brick frag., wet	2.8

## Sampling Method: Grab

Composite Sample: \_\_\_\_\_ Composite Sample ID #:<u>SB-12-0-2/SB-12-10-12</u> Describe Compositing:

Sample Types Collected							
Type <sup>(2)</sup>	<u>Per Sa</u>	. <u>mple?</u>	<u>Per Con</u>	nposite?			
VOCs/SVOCs/Metals/PCBs/PAHs/Dioxins	_ Y⊠	$N\square$	$Y\square$	$N \boxtimes$			
Volume: Container Type: Terracore ki	it, one 8 oz	glass jar, o	one 4 oz glas	s jar			
Date Received by Lab: <u>1/12/2023</u> Laboratory Weather Conditions: <u>Rain</u> , low 30's	: <u>ALS</u>						
$\mathbf{D}_{\text{operative}} = 0.5ft - 4ft \text{ processory} = 5.10ft - 2.5ft \text{ processor}$		5ft — 1 5t	ft maaaraa				

Remarks: <u>0-5ft = 4ft recovery</u>, <u>5-10ft = 3.5ft recovery</u>, <u>10-15ft = 4.5ft recovery</u> Converted to MW-12 at 20ft bgs

(1) Organic vapor analysis, pocket penetrometer, etc.

## **APPENDIX B**

## Water Sample Collection Reports



PROJECT NAME	SCI Pittsburgh Phase II ESA	SAMPLE I.D. MW-01
PROJECT NO.	2390	WELL NO. MW-01
SAMPLE DATE	1/16/2023	SAMPLED BY ETH
SAMPLE TIME	1545	SAMPLE SEQUENCE NUMBER
COLLECTION EQ	UIPMENT Geopump	
DEPTH TO WATE	ER PRIOR TO SAMPLING (FT) 17.62	

FIELD MEASUREMENTS					
pH	Standard Units	5.95			
Specific Conductance	mS/cm	3.40			
Water Temperature	°C	14.53			
Dissolved Oxygen	ppm	0.55			
Redox Potential	mV	109			
Turbidity	NTU	0.00			

WATER APPEARANCE OR ODORS

Clear

SAMPLING FLOW RATE

SAMPLE TYPE INFORMATION						
PARAMETER	VOLUME	NO. CONTAINERS	FIELD FILTERED		PRESERVED	
8260 TCL VOCs	50 ml	3	Y	N	Y	Ν
TAL Metals - FF	152 ml	2	Ŷ	N	Y	N
7196 CR6	500 ml	1	Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N

TOTAL NO. OF CONTAINERS 6		
LABORATORY ALS	DELIVERED VIA Hand Delivered	DATE 1/16/2023
WEATHER 46 degrees, clear		
Comments		

## WELL PURGING RECORD LOW-FLOW SAMPLING



Site:	SCI Pittsburgh Phase II ESA	<b>Tubing Diameter:</b>	1 in
Project No.:	2390	Depth to Groundwater:	17.60 ft
Sampling Device:	Geopump	Well Depth:	30 ft
Date:	1/16/2023	Feet of Water:	12.40 ft
Well I.D.:	MW-01	Volume of Water in Well:	0.51 gal

Time	Depth to Water (ft TOR)	рН (s.u.)	Specific Conductance ( / )	Temp (C)	Dissolved Oxygen (ppm)	Turbidity (NTU)	Redox (mV)
1505	17.60	6.04	3.32	14.50	1.52	60.00	71.0
1510		6.00	3.36	14.48	1.19	48.76	70.0
1515		5.98	3.37	14.44	0.88	28.04	73.0
1520		5.98	3.38	14.47	0.68	31.01	86.0
1525		5.96	3.39	14.53	0.63	11.36	96.0
1530		5.96	3.40	14.53	0.59	0.28	101.0
1535		5.95	3.40	14.55	0.55	0.00	107.0
1540	17.62	5.95	3.40	14.53	0.55	0.00	109.0
1545	Sample Time						

Purge Start Time:	1505	Approx. Purge Rate:	150 ml/min
Purge End Time:	1540	Approx. Well Volume:	0.51 gal
Sampler:	Erik Hartle	Total Volume Purged:	1.59 gal
		Well Volume (gal.) (2" well)= (	ft of water)(0.163)
Weather :	46 degrees, clear		

**Comments:** Unable to obtain water level while purging, well diameter not wide enough for water level meter



PROJECT NAME	SCI Pittsburgh Phase II ESA	SAMPLE I.D. MW-02
PROJECT NO.	2390	WELL NO. MW-02
SAMPLE DATE	1/12/2023	SAMPLED BY ETH
SAMPLE TIME	12:25	SAMPLE SEQUENCE NUMBER
COLLECTION EQ	UIPMENT Geopump	
DEPTH TO WATE	ER PRIOR TO SAMPLING (FT) 17.80	

FIELD MEASUREMENTS				
pH	Standard Units	5.73		
Specific Conductance	mS/cm	3.34		
Water Temperature	°C	12.93		
Dissolved Oxygen	ppm	0.03		
Redox Potential	mV	-146		
Turbidity	NTU	42.3		

WATER APPEARANCE OR ODORS

Clear

SAMPLING FLOW RATE

SAMPLE TYPE INFORMATION						
PARAMETER	VOLUME	NO. CONTAINERS	FIELD F	ILTERED	PRESERV	VED
8260 TCL VOCs	50 ml	3	Y	N	Y	Ν
TAL Metals - FF	152 ml	2	Ŷ	N	Y	N
7196 CR6	500 ml	1	Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N

TOTAL NO. OF CONTAINERS 6		
LABORATORY ALS	DELIVERED VIA Hand Delivered	DATE 1/12/2023
WEATHER 48 degrees, rain		
Comments		

## WELL PURGING RECORD LOW-FLOW SAMPLING



Site:	SCI Pittsburgh Phase II ESA	<b>Tubing Diameter:</b>	1 in
Project No.:	2390	Depth to Groundwater:	17.78 ft
Sampling Device:	Geopump	Well Depth:	24 ft
Date:	1/12/2023	Feet of Water:	6.22 ft
Well I.D.:	MW-02	Volume of Water in Well:	0.25 gal

Time	Depth to Water (ft TOR)	рН (s.u.)	Specific Conductance ( / )	Temp (C)	Dissolved Oxygen (ppm)	Turbidity (NTU)	Redox (mV)
1135	17.80	5.81	3.37	13.33	2.21	1000	61
1140	17.80	5.71	3.38	13.74	1.08	668	-23
1145	17.80	5.72	3.37	13.89	0.36	164	-59
1150	17.80	5.76	3.35	13.89	0.31	137	-97
1155	17.80	5.79	3.34	13.83	0.23	106	-108
1200	17.80	5.72	3.31	13.92	0.27	57.9	-124
1205	17.80	5.80	3.31	13.90	0.16	44.4	-127
1210	17.80	5.71	3.30	13.82	0.23	40.2	-135
1215	17.80	5.72	3.32	13.6	0.15	39.6	-144
1220	17.80	5.73	3.34	12.93	0.03	42.3	-146
1225	Sample Time						

<b>Purge Start Time:</b>	1135	<b>Approx. Purge Rate:</b>	150 ml/min
Purge End Time:	1225	Approx. Well Volume:	0.25 gal
Sampler:	Erik Hartle	<b>Total Volume Purged:</b>	2 gal
		Well Volume (gal.) (2" well)=	(ft of water)(0.163)
Weather :	48 degrees, rain		
Comments:	TOR = 11 in above ground surface		



PROJECT NAME	SCI Pittsburgh Phase II ESA	SAMPLE I.D. MW-03
PROJECT NO.	2390	WELL NO. MW-03
SAMPLE DATE	1/12/2023	SAMPLED BY ETH
SAMPLE TIME	14:00	SAMPLE SEQUENCE NUMBER
COLLECTION EQ	UIPMENT Geopump	
DEPTH TO WATE	ER PRIOR TO SAMPLING (FT) 16.46	

FIELD MEASUREMENTS				
pH	Standard Units	6.25		
Specific Conductance	mS/cm	0.671		
Water Temperature	°C	12.95		
Dissolved Oxygen	ppm	0.00		
Redox Potential	mV	-232		
Turbidity	NTU	36.6		

WATER APPEARANCE OR ODORS

Clear

SAMPLING FLOW RATE

SAMPLE TYPE INFORMATION						
PARAMETER	VOLUME	NO. CONTAINERS	FIELD F	ILTERED	PRESERV	VED
8260 TCL VOCS	50 ml	3	Y	N	Y	Ν
TAL Metals - FF	152 ml	2	Ŷ	N	Y	Ν
7196 CR6	500 ml	1	Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	Ν	Y	N

TOTAL NO. OF CONTAINERS 6		
LABORATORY ALS	DELIVERED VIA Hand Delivered	DATE 1/12/2023
WEATHER 45 degrees, rain		
Comments		

## WELL PURGING RECORD LOW-FLOW SAMPLING



Site:	SCI Pittsburgh Phase II ESA	<b>Tubing Diameter:</b>	1 in
Project No.:	2390	Depth to Groundwater:	16.50 ft
Sampling Device:	Geopump	Well Depth:	19 ft
Date:	1/12/2023	Feet of Water:	2.5 ft
Well I.D.:	MW-03	Volume of Water in Well:	0.10 gal

Time	Depth to Water (ft TOR)	рН (s.u.)	Specific Conductance ( / )	Temp (C)	Dissolved Oxygen (ppm)	Turbidity (NTU)	Redox (mV)
1310	16.53	6.65	0.82	12.49	0.68	1000	-230
1315	16.54	6.52	0.78	12.44	0.43	855	-238
1320	16.50	6.44	0.73	12.55	0.13	601	-244
1325	16.50	6.38	0.70	12.69	0.00	291	-247
1330	16.50	6.36	0.70	12.73	0.00	183	-246
1335	16.48	6.34	0.70	12.78	0.00	121.0	-245
1340	16.48	6.30	0.68	12.81	0.00	80.4	-241
1345	16.48	6.28	0.68	12.81	0.00	67.4	-240
1350	16.46	6.26	0.675	12.88	0.00	49	-234
1355	16.46	6.25	0.671	12.95	0.00	36.6	-232
1400	Sample Time						

<b>Purge Start Time:</b>	1310	Approx. Purge Rate:	150 ml/min
Purge End Time:	1355	Approx. Well Volume:	0.10 gal
Sampler:	Erik Hartle	Total Volume Purged:	2 gal
		Well Volume (gal.) (2" well)= (f	t of water)(0.163)
Weather :	45 degrees, rain		
Comments:	Turbidity meter read 13.76 at	1345, 9.80 at 1350, and 4.89 at 1355.	



PROJECT NAME	SCI Pittsburgh Phase II ESA	SAMPLE I.D. MW-04
PROJECT NO.	2390	WELL NO. MW-04
SAMPLE DATE	1/12/2023	SAMPLED BY ETH
SAMPLE TIME	15:40	SAMPLE SEQUENCE NUMBER
COLLECTION EQ	UIPMENT Geopump	
DEPTH TO WATE	ER PRIOR TO SAMPLING (FT) 15.88	

FIELD MEASUREMENTS					
pH	Standard Units	6.15			
Specific Conductance	mS/cm	0.400			
Water Temperature	°C	13.82			
Dissolved Oxygen	ppm	5.36			
Redox Potential	mV	214			
Turbidity	NTU	20.58			

WATER APPEARANCE OR ODORS

Clear

SAMPLING FLOW RATE

SAMPLE TYPE INFORMATION						
PARAMETER	VOLUME	NO. CONTAINERS	FIELD F	ILTERED	PRESERV	VED
8260 TCL VOCs	50 ml	3	Y	N	Y	Ν
TAL Metals - FF	152 ml	2	Ŷ	N	Y	N
7196 CR6	500 ml	1	Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	Ν
			Y	N	Y	Ν
			Y	N	Y	N

TOTAL NO. OF CONTAINERS 6		
LABORATORY ALS	DELIVERED VIA Hand Delivered	DATE 1/12/2023
WEATHER 48 degrees, rain		
Comments		

## WELL PURGING RECORD LOW-FLOW SAMPLING



Site:	SCI Pittsburgh Phase II ESA	<b>Tubing Diameter:</b>	1 in
Project No.:	2390	Depth to Groundwater:	12.57 ft
Sampling Device:	Geopump	Well Depth:	20 ft
Date:	1/12/2023	Feet of Water:	7.43 ft
Well I.D.:	MW-04	Volume of Water in Well:	0.30 gal

Time	Depth to Water (ft TOR)	рН (s.u.)	Specific Conductance ( / )	Temp (C)	Dissolved Oxygen (ppm)	Turbidity (NTU)	Redox (mV)
1435	14.20	6.39	0.397	13.38	4.90	107	157
1440	14.60	6.37	0.387	13.50	4.44	103	146
1445	15.07	6.37	0.396	13.61	4.20	99	138
1450	15.62	6.31	0.394	13.68	4.01	66	144
1455	15.70	6.31	0.401	13.68	3.89	50	150
1500	15.87	6.21	0.398	13.70	4.50	40.8	167
1505	15.87	6.20	0.398	13.70	4.02	38.8	185
1510	15.73	6.17	0.398	13.75	4.37	29.9	193
1515	15.88	6.16	0.398	13.8	4.45	33.86	194
1520	15.88	6.18	0.397	13.91	5.07	27.67	199
1525	15.88	6.15	0.399	13.88	5.36	20.43	205
1530	15.88	6.15	0.400	13.86	5.30	16.5	211
1535	15.88	6.15	0.400	13.82	5.36	20.58	214
1540	Sample Time						

<b>Purge Start Time:</b>	1435	<b>Approx. Purge Rate:</b>	150 ml/min
Purge End Time:	1535	Approx. Well Volume:	0.10 gal
Sampler:	Erik Hartle	<b>Total Volume Purged:</b>	2 gal
		Well Volume (gal.) (2" well)=	(ft of water)(0.163)
Weather :	48 degrees, rain		
Comments:	TOR = 2.25 in above ground surface		



PROJECT NAME	SCI Pittsburgh Phase II ESA	SAMPLE I.D. MW-05/MW-05D
PROJECT NO.	2390	WELL NO. MW-05
SAMPLE DATE	1/13/2023	SAMPLED BY ETH
SAMPLE TIME	12:35/14:40	SAMPLE SEQUENCE NUMBER
COLLECTION EQ	UIPMENT Geopump	
DEPTH TO WATE	ER PRIOR TO SAMPLING (FT) 14.94	

	FIELD MEASUREMENTS					
pH	Standard Units	6.25				
Specific Conductance	mS/cm	0.833				
Water Temperature	°C	13.07				
Dissolved Oxygen	ppm	2.09				
Redox Potential	mV	102				
Turbidity	NTU	1.04				

WATER APPEARANCE OR ODORS

Clear

SAMPLING FLOW RATE

SAMPLE TYPE INFORMATION							
PARAMETER	VOLUME	No. Containers	NO. CONTAINERS FIELD FILTERED PL			PRESERVED	
8260 TCL VOCS	50 ml	3	Y	N	Y	Ν	
TAL Metals - FF	152 ml	2	Ŷ	N	Y	N	
7196 CR6	500 ml	1	Y	N	Y	N	
			Y	N	Y	N	
			Y	N	Y	N	
			Y	N	Y	N	
			Y	N	Y	N	

TOTAL NO. OF CONTAINERS 12					
LABORATORY ALS	DELIVERED VIA Hand Delivered	DATE 1/13/2023			
WEATHER 26 degrees, light snow					
COMMENTS Duplicate sample collected at MW-05 (MW-05D)					

## WELL PURGING RECORD LOW-FLOW SAMPLING



Site:	SCI Pittsburgh Phase II ESA	<b>Tubing Diameter:</b>	1 in
Project No.:	2390	Depth to Groundwater:	14.55 ft
Sampling Device:	Geopump	Well Depth:	20 ft
Date:	1/13/2023	Feet of Water:	5.45 ft
Well I.D.:	MW-05	Volume of Water in Well:	0.22 gal

Time	Depth to Water (ft TOR)	рН (s.u.)	Specific Conductance ( / )	Temp (C)	Dissolved Oxygen (ppm)	Turbidity (NTU)	Redox (mV)
1155	14.90	6.35	0.917	12.70	4.22	438	176
1200	14.90	6.35	0.860	12.69	3.66	284	103
1205	14.90	6.31	0.839	12.81	2.49	101	79
1210	14.90	6.29	0.839	12.89	2.04	39	79
1215	14.92	6.28	0.840	12.91	2.00	17	84
1220	14.92	6.27	0.836	12.99	1.96	8.1	87
1225	14.92	6.26	0.832	13.00	1.92	2.8	96
1230	19.94	6.25	0.833	13.07	2.09	1.0	102
1235	Sample Time						
1240	Duplicate Sam	ple time					

<b>Purge Start Time:</b>	1155
Purge End Time:	1230
Sampler:	Erik Hartle

Approx. Purge Rate:150 ml/minApprox. Well Volume:0.22 galTotal Volume Purged:1.59 galWell Volume (gal.) (2" well)= (ft of water)(0.163)

Weather : 26 degrees, light snow

**Comments:** Duplicate sample collected at MW-05 (MW-05D). TOR = 6 in above ground surface.



PROJECT NAME	SCI Pittsburgh Phase II ESA	SAMPLE I.D. MW-06
PROJECT NO.	2390	WELL NO. MW-06
SAMPLE DATE	1/13/2023	SAMPLED BY ETH
SAMPLE TIME	13:55	SAMPLE SEQUENCE NUMBER
COLLECTION EQ	UIPMENT Geopump	
DEPTH TO WATE	ER PRIOR TO SAMPLING (FT) 15.04	

FIELD MEASUREMENTS					
pH	Standard Units	6.18			
Specific Conductance	mS/cm	0.367			
Water Temperature	°C	11.73			
Dissolved Oxygen	ppm	4.33			
Redox Potential	mV	134			
Turbidity	NTU	2.33			

WATER APPEARANCE OR ODORS

Clear

SAMPLING FLOW RATE

SAMPLE TYPE INFORMATION						
PARAMETER	VOLUME	NO. CONTAINERS FIELD FILTERED				VED
8260 TCL VOCs	50 ml	3	Y	N	Y	Ν
TAL Metals - FF	152 ml	2	Ŷ	N	Y	N
7196 CR6	500 ml	1	Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N

TOTAL NO. OF CONTAINERS6		
LABORATORY ALS	DELIVERED VIA Hand Delivered	DATE 1/13/2023
WEATHER 25 degrees, light snow		
Comments		

## WELL PURGING RECORD LOW-FLOW SAMPLING



Site:	SCI Pittsburgh Phase II ESA	<b>Tubing Diameter:</b>	1 in
Project No.:	2390	Depth to Groundwater:	14.67 ft
Sampling Device:	Geopump	Well Depth:	20 ft
Date:	1/13/2023	Feet of Water:	5.33 ft
Well I.D.:	MW-06	Volume of Water in Well:	0.22 gal

Time	Depth to Water (ft TOR)	рН (s.u.)	Specific Conductance ( / )	Temp (C)	Dissolved Oxygen (ppm)	Turbidity (NTU)	Redox (mV)
1310	15.03	6.32	0.417	11.56	4.89	433	89
1315	15.06	6.26	0.388	11.64	4.34	273	92
1320	15.03	6.24	0.378	11.78	3.59	98	83
1325	15.03	6.21	0.370	11.77	3.69	77	104
1330	15.03	6.20	0.369	11.79	3.83	36	110
1335	15.03	6.18	0.367	11.68	4.07	16.04	118
1340	15.03	6.18	0.366	11.68	4.09	9.04	124
1345	15.03	6.19	0.366	11.74	4.14	3.90	129
1350	15.04	6.18	0.367	11.73	4.33	2.33	134
1355	Sample Time						

<b>Purge Start Time:</b>	1310	Approx. Purge Rate:	150 ml/min
Purge End Time:	1350	Approx. Well Volume:	0.22 gal
Sampler:	Erik Hartle	Total Volume Purged:	1.78 gal
		Well Volume (gal.) (2'' well)=	(ft of water)(0.163)
Weather :	25 degrees, light snow		
Comments:	TOR = 6 in above ground surface		



PROJECT NAME	SCI Pittsburgh Phase II ESA	SAMPLE I.D. MW-07			
PROJECT NO.	2390	WELL NO. MW-07			
SAMPLE DATE	1/16/2023	SAMPLED BY ETH			
SAMPLE TIME	10:55	SAMPLE SEQUENCE NUMBER			
COLLECTION EQUIPMENT Geopump					
DEPTH TO WATER PRIOR TO SAMPLING (FT) 18.18					

FIELD MEASUREMENTS					
pH	Standard Units	5.72			
Specific Conductance	mS/cm	0.619			
Water Temperature	°C	9.35			
Dissolved Oxygen	ppm	9.34			
Redox Potential	mV	263			
Turbidity	NTU	96			

WATER APPEARANCE OR ODORS

Clear

SAMPLING FLOW RATE

SAMPLE TYPE INFORMATION									
PARAMETER	VOLUME	NO. CONTAINERS	FIELD FILTERED		PRESERVED				
8260 TCL VOCS	50 ml	3	Y	N	Y	Ν			
TAL Metals - FF	152 ml	2	Ŷ	N	Y	Ν			
7196 CR6	500 ml	1	Y	N	Y	N			
			Y	N	Y	N			
			Y	N	Y	N			
			Y	N	Y	N			
			Y	N	Y	N			

TOTAL NO. OF CONTAINERS 6				
LABORATORY ALS	DELIVERED VIA Hand Delivered	DATE 1/16/2023		
WEATHER 28 degrees, clear				
Comments				

# WELL PURGING RECORD LOW-FLOW SAMPLING



Site:	SCI Pittsburgh Phase II ESA	<b>Tubing Diameter:</b>	1 in
Project No.:	2390	Depth to Groundwater:	14.13 ft
Sampling Device:	Geopump	Well Depth:	20 ft
Date:	1/16/2023	Feet of Water:	5.87 ft
Well I.D.:	MW-07	Volume of Water in Well:	0.24 gal

Time	Depth to Water (ft TOR)	рН (s.u.)	Specific Conductance ( / )	Temp (C)	Dissolved Oxygen (ppm)	Turbidity (NTU)	Redox (mV)
1020	15.03	6.32	0.417	11.56	4.89	433	89
1025	15.06	6.26	0.388	11.64	4.34	273	92
1030	15.03	6.24	0.378	11.78	3.59	98	83
1035	15.03	6.21	0.370	11.77	3.69	77	104
1040	15.03	6.20	0.369	11.79	3.83	36	110
1045	15.03	6.18	0.367	11.68	4.07	16.04	118
1050	15.03	6.18	0.366	11.68	4.09	9.04	124
1055	Sample Time						

<b>Purge Start Time:</b>	1020	<b>Approx. Purge Rate:</b>	150 ml/min
Purge End Time:	1050	Approx. Well Volume:	0.24 gal
Sampler:	Erik Hartle	Total Volume Purged:	1.4 gal
		Well Volume (gal.) (2" well)= (ft	t of water)(0.163)
Weather :	28 degrees, clear		
Comments:	TOR = 6.875 in above ground	surface - water level deminished at a fast rate,	well purged for



### WATER SAMPLE COLLECTION REPORT

NA

PROJECT NAME	SCI Pittsburgh Phase II ESA	SAMPLE I.D. MW-08
PROJECT NO.	2390	WELL NO. MW-08
SAMPLE DATE	1/17/2023	SAMPLED BY ETH
SAMPLE TIME	16:15	SAMPLE SEQUENCE NUMBER
COLLECTION EQ	UIPMENT Geopump	
DEPTH TO WATE	ER PRIOR TO SAMPLING (FT) 18.67	

FIELD MEASUREMENTS					
pH	Standard Units	NA			
Specific Conductance	mS/cm	NA			
Water Temperature	°C	NA			
Dissolved Oxygen	ppm	NA			
Redox Potential	mV	NA			
Turbidity	NTU	NA			

WATER APPEARANCE OR ODORS

Cloudy

SAMPLING FLOW RATE

SAMPLE TYPE INFORMATION						
PARAMETER	PARAMETER VOLUME NO. CONTAINERS FIELD FILTERED		PRESERV	VED		
8260 TCL VOCS	50 ml	3	Y	N	Y	Ν
TAL Metals - FF	152 ml	2	Ŷ	N	Y	Ν
7196 CR6	500 ml	1	Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N

TOTAL NO. OF CONTAINERS 6		
LABORATORY ALS	DELIVERED VIA Hand Delivered	DATE 1/17/2023
WEATHER 41 degrees, overcast		
Comments		

# WELL PURGING RECORD LOW-FLOW SAMPLING



Site:	SCI Pittsburgh Phase II ESA	<b>Tubing Diameter:</b>	1 in
Project No.:	2390	Depth to Groundwater:	18.67 ft
Sampling Device:	Geopump	Well Depth:	25 ft
Date:	1/17/2023	Feet of Water:	6.33 ft
Well I.D.:	MW-08	Volume of Water in Well:	NA

Time	Depth to Water (ft TOR)	рН (s.u.)	Specific Conductance ( / )	Temp (C)	Dissolved Oxygen (ppm)	Turbidity (NTU)	Redox (mV)
	NT			XX7.11 . 1.1			
		-	cted at MW-08.				
			well went dry. A	imple time wa	s allowed for th	he well to rech	arge
	before samplin	g.					
1615	Sample Time						

<b>Purge Start Time:</b>	NA	Approx. Purge Rate:	NA
Purge End Time:	NA	Approx. Well Volume:	NA
Sampler:	Erik Hartle	<b>Total Volume Purged:</b>	NA
	Well Volume (gal.) (2"		(ft of water)(0.163)
Weather :	41 degrees, overcast		
Comments:	TOR = 3.625 in above ground surface		



## WATER SAMPLE COLLECTION REPORT

PROJECT NAME	SCI Pittsburgh Phase II ESA	SAMPLE I.D. MW-09
PROJECT NO.	2390	WELL NO. MW-09
SAMPLE DATE	1/17/2023	SAMPLED BY ETH
SAMPLE TIME	14:55	SAMPLE SEQUENCE NUMBER
COLLECTION EQ	UIPMENT Geopump	
DEPTH TO WATE	ER PRIOR TO SAMPLING (FT) 10.35	

FIELD MEASUREMENTS					
pH	Standard Units	6.55			
Specific Conductance	mS/cm	0.990			
Water Temperature	°C	15.19			
Dissolved Oxygen	ppm	0.49			
Redox Potential	mV	77			
Turbidity	NTU	34.4			

WATER APPEARANCE OR ODORS

Clear

SAMPLING FLOW RATE

150 ml/min

SAMPLE TYPE INFORMATION						
PARAMETER	VOLUME	NO. CONTAINERS	FIELD F	ILTERED	PRESERV	VED
8260 TCL VOCS	50 ml	3	Y	N	Y	Ν
TAL Metals - FF	152 ml	2	Ŷ	N	Y	N
7196 CR6	500 ml	1	Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	Ν	Y	N

TOTAL NO. OF CONTAINERS 6		
LABORATORY ALS	DELIVERED VIA Hand Delivered	DATE 1/16/2023
WEATHER 43 degrees, clear		
Comments		

# WELL PURGING RECORD LOW-FLOW SAMPLING



Site:	SCI Pittsburgh Phase II ESA	<b>Tubing Diameter:</b>	1 in
Project No.:	2390	Depth to Groundwater:	10.31 ft
Sampling Device:	Geopump	Well Depth:	20 ft
Date:	1/16/2023	Feet of Water:	9.69 ft
Well I.D.:	MW-09	Volume of Water in Well:	0.40 gal

Time	Depth to Water (ft TOR)	рН (s.u.)	Specific Conductance ( / )	Temp (C)	Dissolved Oxygen (ppm)	Turbidity (NTU)	Redox (mV)
1350	10.33	6.49	0.995	14.05	1.76	235	19
1355	10.34	6.55	0.990	14.43	1.31	133	38
1400	10.34	6.52	0.991	14.68	0.96	96	48
1405	10.34	6.53	0.994	14.83	0.73	82	54
1410	10.35	6.53	0.993	14.94	0.66	68	59
1415	10.35	6.55	0.992	15.02	0.58	69.2	63
1420	10.34	6.55	0.990	15.10	0.52	49.10	68
1425	10.35	6.55	0.990	15.13	0.52	37.13	71
1430	10.35	6.55	0.989	15.17	0.50	34.85	73
1435	10.35	6.55	0.990	15.2	0.48	34.7	75
1440	10.35	6.55	0.99	15.19	0.49	34.4	77
1445	Sample Time						

<b>Purge Start Time:</b>	1350	Approx. Purge Rate:	150 ml/min
Purge End Time:	1440	Approx. Well Volume:	0.40 gal
Sampler:	Erik Hartle	<b>Total Volume Purged:</b>	2.18 gal
		Well Volume (gal.) (2" well)= (f	t of water)(0.163)
Weather :	43 degrees, clear		
Comments:	TOR = 3.5 in above ground surface		



### WATER SAMPLE COLLECTION REPORT

PROJECT NAME	SCI Pittsburgh Phase II ESA	SAMPLE I.D. MW-10
PROJECT NO.	2390	WELL NO. MW-10
SAMPLE DATE	1/16/2023	SAMPLED BY TJN
SAMPLE TIME	13:25	SAMPLE SEQUENCE NUMBER
COLLECTION EQ	UIPMENT Geopump	
DEPTH TO WATE	ER PRIOR TO SAMPLING (FT) 11.96	

FIELD MEASUREMENTS					
pH	Standard Units	6.38			
Specific Conductance	mS/cm	1.24			
Water Temperature	°C	13.02			
Dissolved Oxygen	ppm	0.52			
Redox Potential	mV	-100			
Turbidity	NTU	18.31			

WATER APPEARANCE OR ODORS

Clear

SAMPLING FLOW RATE

150 ml/min

SAMPLE TYPE INFORMATION						
PARAMETER	VOLUME	NO. CONTAINERS	FIELD F	ILTERED	PRESER	VED
8260 TCL VOCS	50 ml	3	Y	N	Y	N
TAL Metals - FF	152 ml	2	Ŷ	N	Y	Ν
7196 CR6	500 ml	1	Y	N	Y	N
			Y	N	Y	Ν
			Y	N	Y	Ν
			Y	Ν	Y	N
			Y	N	Y	N

TOTAL NO. OF CONTAINERS 6		
LABORATORY ALS	DELIVERED VIA Hand Delivered	DATE 1/16/2023
WEATHER 33 degrees, clear		
Comments		

# WELL PURGING RECORD LOW-FLOW SAMPLING



Site:	SCI Pittsburgh Phase II ESA	<b>Tubing Diameter:</b>	1 in
Project No.:	2390	Depth to Groundwater:	11.50 ft
Sampling Device:	Geopump	Well Depth:	25 ft
Date:	1/16/2023	Feet of Water:	13.5 ft
Well I.D.:	MW-10	Volume of Water in Well:	0.55 gal

Time	Depth to Water (ft TOR)	рН (s.u.)	Specific Conductance ( / )	Temp (C)	Dissolved Oxygen (ppm)	Turbidity (NTU)	Redox (mV)
1230	11.50	6.38	1.190	14.39	2.48	144	-41
1235	12.20	6.29	1.220	13.99	1.35	48.91	-66
1240	11.78	6.34	1.230	13.71	0.89	65.00	-80
1245	11.82	6.34	1.220	13.56	0.79	43.37	-87
1250	11.87	6.35	1.210	13.41	0.67	34.44	-92
1255	11.87	6.36	1.210	13.31	0.68	26.16	-94
1300	11.88	6.36	1.220	13.19	0.65	19.76	-96
1305	11.91	6.37	1.220	13.13	0.60	17.50	-97
1310	11.94	6.37	1.230	13.04	0.61	19.80	-99
1315	11.94	6.38	1.240	13.00	0.54	19.56	-98
1320	11.96	6.38	1.240	13.02	0.52	18.31	-100
1325	Sample Time						

<b>Purge Start Time:</b>	1230	Approx. Purge Rate:	150 ml/min
<b>Purge End Time:</b>	1320	Approx. Well Volume:	0.55 gal
Sampler:	Tyler Newell	Total Volume Purged:	2.18 gal
		Well Volume (gal.) (2" well)= (	ft of water)(0.163)
Weather :	33 degrees, clear		
Comments:	TOR = 5.5 in above ground surface		



## WATER SAMPLE COLLECTION REPORT

PROJECT NAME	SCI Pittsburgh Phase II ESA	SAMPLE I.D. MW-11
PROJECT NO.	2390	WELL NO. MW-11
SAMPLE DATE	1/16/2023	SAMPLED BY TJN
SAMPLE TIME	12:15	SAMPLE SEQUENCE NUMBER
COLLECTION EQ	UIPMENT Geopump	
DEPTH TO WATE	ER PRIOR TO SAMPLING (FT) 11.96	

FIELD MEASUREMENTS					
pH	Standard Units	6.65			
Specific Conductance	mS/cm	1.45			
Water Temperature	°C	14.94			
Dissolved Oxygen	ppm	0.75			
Redox Potential	mV	-99			
Turbidity	NTU	8.05			

WATER APPEARANCE OR ODORS

None

SAMPLING FLOW RATE

200 ml/min

SAMPLE TYPE INFORMATION						
PARAMETER	VOLUME	NO. CONTAINERS	FIELD F	ILTERED	PRESERV	VED
8260 TCL VOCS	50 ml	3	Y	N	Y	Ν
TAL Metals - FF	152 ml	2	Ŷ	N	Y	N
7196 CR6	500 ml	1	Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	Ν	Y	N

TOTAL NO. OF CONTAINERS 6		
LABORATORY ALS	DELIVERED VIA Hand Delivered	DATE 1/16/2023
WEATHER 40 degrees, clear		
Comments		

# WELL PURGING RECORD LOW-FLOW SAMPLING



Site:	SCI Pittsburgh Phase II ESA	<b>Tubing Diameter:</b>	1 in
Project No.:	2390	Depth to Groundwater:	11.75 ft
Sampling Device:	Geopump	Well Depth:	20 ft
Date:	1/16/2023	Feet of Water:	8.25 ft
Well I.D.:	MW-11	Volume of Water in Well:	0.34 gal

Time	Depth to Water (ft TOR)	рН (s.u.)	Specific Conductance ( / )	Temp (C)	Dissolved Oxygen (ppm)	Turbidity (NTU)	Redox (mV)
1110	11.75	6.10	1.470	13.38	1.68	1000	50
1115	11.65	6.50	1.360	12.75	1.72	188	47
1120	11.45	6.32	1.460	14.05	1.69	221	-60
1125	11.52	6.36	1.450	14.32	1.27	179	-75
1130	11.48	6.38	1.450	14.69	1.98	106	-73
1135	11.54	6.47	1.450	14.55	1.55	90.9	-80
1140	11.52	6.49	1.450	14.57	1.16	82.60	-85
1150	11.50	6.54	1.450	14.68	0.96	52.90	-89
1155	11.58	6.57	1.450	14.76	0.85	35.40	-92
1200	11.6	6.65	1.460	14.93	0.80	20.56	-95
1205	11.62	6.65	1.450	14.96	0.74	9.41	-96
1210	11.61	6.65	1.450	14.94	0.75	8.05	-99
1215	Sample Time						
	+ +						

<b>Purge Start Time:</b>	1110	Approx. Purge Rate:	200 ml/min
Purge End Time:	1210	Approx. Well Volume:	0.34 gal
Sampler:	Tyler Newell	<b>Total Volume Purged:</b>	3.17 gal
		Well Volume (gal.) (2" well)=	(ft of water)(0.163)
Weather :	40 degrees, sun		
Comments:	TOR = 7.5 in above ground surface		



## WATER SAMPLE COLLECTION REPORT

PROJECT NAME	SCI Pittsburgh Phase II ESA	SAMPLE I.D. MW-12
PROJECT NO.	2390	WELL NO. MW-12
SAMPLE DATE	1/13/2023	SAMPLED BY ETH
SAMPLE TIME	15:35	SAMPLE SEQUENCE NUMBER
COLLECTION EQ	UIPMENT Geopump	
DEPTH TO WATE	ER PRIOR TO SAMPLING (FT) 11.70	

FIELD MEASUREMENTS					
pH	Standard Units	6.53			
Specific Conductance	mS/cm	1.19			
Water Temperature	°C	13.22			
Dissolved Oxygen	ppm	0.00			
Redox Potential	mV	-79			
Turbidity	NTU	5.67			

WATER APPEARANCE OR ODORS

Clear

SAMPLING FLOW RATE

150 ml/min

SAMPLE TYPE INFORMATION						
PARAMETER	VOLUME	NO. CONTAINERS	FIELD F	ILTERED	PRESERV	VED
8260 TCL VOCs	50 ml	3	Y	N	Y	Ν
TAL Metals - FF	152 ml	2	Ŷ	N	Y	N
7196 CR6	500 ml	1	Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N
			Y	N	Y	N

TOTAL NO. OF CONTAINERS6		
LABORATORY ALS	DELIVERED VIA Hand Delivered	DATE 1/13/2023
WEATHER 24 degrees, overcast		
Comments		

# WELL PURGING RECORD LOW-FLOW SAMPLING



Site:	SCI Pittsburgh Phase II ESA	<b>Tubing Diameter:</b>	1 in
Project No.:	2390	Depth to Groundwater:	11.54 ft
Sampling Device:	Geopump	Well Depth:	20 ft
Date:	1/13/2023	Feet of Water:	8.46 ft
Well I.D.:	MW-12	Volume of Water in Well:	0.35 gal

Time	Depth to Water (ft TOR)	рН (s.u.)	Specific Conductance ( / )	Temp (C)	Dissolved Oxygen (ppm)	Turbidity (NTU)	Redox (mV)
1455	11.68	6.57	1.170	12.10	1.65	241	-36
1500	11.68	6.49	1.170	12.31	0.88	92	-56
1505	11.68	6.46	1.170	12.60	0.00	28.02	-70
1510	11.68	6.45	1.170	12.72	0.00	13.68	-73
1515	11.69	6.47	1.170	12.89	0.00	11.20	-76
1520	11.69	6.48	1.180	13.09	0.00	9.43	-78
1525	11.69	6.51	1.180	13.10	0.00	6.53	-79
1530	11.70	6.53	1.190	13.22	0.00	5.67	-79
1535	Sample Time						

<b>Purge Start Time:</b>	1455	Approx. Purge Rate:	150 ml/min
Purge End Time:	1530	Approx. Well Volume:	0.35 gal
Sampler:	Erik Hartle	Total Volume Purged:	1.59 gal
		Well Volume (gal.) (2" well)= (	ft of water)(0.163)
Weather :	24 degrees, overcast		
Comments:	TOR = 6.5 in above ground surface		

# APPENDIX C

# Laboratory Test Results





301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343

Analytical Results Report For	Rhea Engineers & Consultants, Inc.           Project         2022FMA SCI Pittsburgh Phase I           Workorder         3282987			
	Project	2022FMA SCI Pittsburgh Phase I		
	Workorder	<u>3282987</u>		
	Report ID	222597 on 2/3/2023		

#### **Certificate of Analysis**

Enclosed are the analytical results for samples received by the laboratory on Jan 13, 2023.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at

www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global. ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):

Zach Wicks - Rhea Engineers & Consultants, Inc.

Elizabeth Parker

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker Project Coordinator

(ALS Digital Signature)



## Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3282987001	SB-03-0-2	Solid	01/11/2023 09:25	01/13/2023 09:02	CBC	Collected By Client
3282987001	SB-03-8-10	Solid	01/11/2023 09:30	01/13/2023 09:02	CBC	Collected By Client
3282987002	SB-02-0-2	Solid	01/11/2023 10:40	01/13/2023 09:02	CBC	Collected By Client
3282987003	SB-02-10-12	Solid	01/11/2023 10:40	01/13/2023 09:02	CBC	Collected By Client
3282987004	SB-04-0-2	Solid	01/11/2023 11:40	01/13/2023 09:02	CBC	Collected By Client
3282987005	SB-04-0-2 SB-04-14-16	Solid	01/11/2023 11:40	01/13/2023 09:02	CBC	Collected By Client
3282987008	SB-04-14-16 SB-05-0-2	Solid	01/11/2023 12:55	01/13/2023 09:02	CBC	Collected By Client
3282987007	SB-05-0-2 SB-05-4-6	Solid	01/11/2023 12:55	01/13/2023 09:02	CBC	,
						Collected By Client
3282987009	SB-06-0-2	Solid	01/11/2023 14:30	01/13/2023 09:02	CBC	Collected By Client
3282987010	SB-06-8-10	Solid	01/11/2023 14:35	01/13/2023 09:02	CBC	Collected By Client
3282987011	SB-07-0-2	Solid	01/11/2023 15:25	01/13/2023 09:02	CBC	Collected By Client
3282987012	SB-07-2-4	Solid	01/11/2023 15:30	01/13/2023 09:02	CBC	Collected By Client
3282987013	SB-01-0-2	Solid	01/12/2023 09:50	01/13/2023 09:02	CBC	Collected By Client
3282987014	SB-01-10-12	Solid	01/12/2023 09:55	01/13/2023 09:02	CBC	Collected By Client
3282987015	SB-11-0-2	Solid	01/12/2023 13:15	01/13/2023 09:02	CBC	Collected By Client
3282987016	SB-11-6-8	Solid	01/12/2023 13:20	01/13/2023 09:02	CBC	Collected By Client
3282987017	SB-12-0-2	Solid	01/12/2023 12:20	01/13/2023 09:02	CBC	Collected By Client
3282987018	SB-12-10-12	Solid	01/12/2023 12:25	01/13/2023 09:02	CBC	Collected By Client
3282987019	SB-12-10-12D	Solid	01/12/2023 12:30	01/13/2023 09:02	CBC	Collected By Client
3283084001	SB-10-0-2	Solid	01/13/2023 09:10	01/14/2023 08:42	CBC	Collected By Client
3283084002	SB-10-4-6	Solid	01/13/2023 09:15	01/14/2023 08:42	CBC	Collected By Client
3283084003	SB-09-0-2	Solid	01/13/2023 09:30	01/14/2023 08:42	CBC	Collected By Client
3283084004	SB-09-4-6	Solid	01/13/2023 09:45	01/14/2023 08:42	CBC	Collected By Client
3283084005	SB-08-0-2	Solid	01/13/2023 10:30	01/14/2023 08:42	CBC	Collected By Client
3283084006	SB-08-6-8	Solid	01/13/2023 10:35	01/14/2023 08:42	CBC	Collected By Client
						-



#### Reference

#### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

#### Standard Acronyms/Flags

J Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte U Indicates that the analyte was Not Detected (ND) above the MDL Ν Indicates presumptive evidence of the presence of a compound MDL Method Detection Limit PQL Practical Quantitation Limit RDL Practical Quantitation Limit for this Project ND Not Detected - indicates that the analyte was Not Detected Cntr Analysis was performed using this container RegLmt Regulatory Limit LCS Laboratory Control Sample MS Matrix Spike MSD Matrix Spike Duplicate DUP Sample Duplicate %Rec Percent Recovery RPD **Relative Percent Difference** LOD DoD Limit of Detection LOQ DoD Limit of Quantitation DL **DoD Detection Limit** Т Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL) (S) Surrogate Compound NC Not Calculated \* Result outside of QC limits # Please reference the result in the Results Section for analyte-level flags.



P1 This report was revised to include all samples from ALS#3283084 per the request of Zach Wicks. EXP 2/3/23

## Sample Notations

			earripie restatione
Lab ID	Sample ID		
3282987005	SB-04-0-2	S1	One or more of the method 8260 internal standards/surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results.
282987011	SB-07-0-2	S2	One or more of the method 8260 internal standards/surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results.
282987012	SB-07-2-4	S3	One or more of the method 8260 internal standards/surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results.
3283084003	SB-09-0-2	S4	One or more of the method 8260 internal standards/surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results.
3283084004	SB-09-4-6	S5	One or more of the method 8260 internal standards/surrogates were recovered outside of the control limits. The sample was re-analyzed with similar results.



**Result Notations** 

Notation Ref. The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Chloromethane. The % Recovery was reported as 145 and the control limits were 44 to 139. 2 The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Chloromethane. The % Recovery was reported as 140 and the control limits were 44 to 139. 3 The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte cis-1,3-Dichloropropene. The % Recovery was reported as 55.4 and the control limits were 76 to 123. The QC sample type LCSD for method SW846 8260B was outside the control limits for the 4 analyte cis-1,3-Dichloropropene. The % Recovery was reported as 60.6 and the control limits were 76 to 123. 5 The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte trans-1,3-Dichloropropene. The % Recovery was reported as 65.6 and the control limits were 77 to 123. 6 The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte trans-1,3-Dichloropropene. The % Recovery was reported as 61.1 and the control limits were 77 to 123. The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Freon 113. The % Recovery was reported as 132 and the control limits were 40 to 109 8 The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 143 and the control limits were 70 to 130. 9 The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 131 and the control limits were 70 to 118. 10 The concentration of this analyte was greater than 4 times the concentration of the spike added to the matrix spike. According to protocol, the calculation for percent recovery of the matrix spike is not valid. 11 The QC type ICV for method SW846 6020A was outside the control limits for the analyte Sb. The % recovery was reported as 117.9 and the control limits were 90 to 110. The sample was non-detect. RMD 01-19-23 12 One of the two matrix spike analyses performed on this sample failed to meet acceptable recovery limits. The other matrix spike was within acceptable recovery limits. Matrix interferences are the possible cause for the failure. The QC type LLCCV for method SW846 6020A was outside the control limits for the 13 analyte Ca. The % Recovery was reported as 132.2 and the control limits were 70 to 130. The sample was greater than the CCV concentration. RMD 01-19-23 14 The QC type LLCCV for method SW846 6020A was outside the control limits for the analyte Se. The % Recovery was reported as 136.2 and the control limits were 70 to 130. The sample was non-detect. RMD 01-19-23 15 The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. The sample was post-digestion spiked, and this matrix spike was within acceptable recovery limits. 16 The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Bromomethane. The % Recovery was reported as 152 and the control limits were 43 to 148 17 The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Freon 113. The % Recovery was reported as 116 and the control limits were 40 to 109. 18 The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Freon 113. The % Recovery was reported as 111 and the control limits were 40 to 109 19 The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Bromoform. The % Recovery was reported as 66.9 and the control limits were 68 to 131.

Workorder

20	The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Bromomethane. The % Recovery was reported as 158 and the control limits were 43 to 148.
21	The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Chlorodibromomethane. The % Recovery was reported as 74 and the control limits were 75 to 124.
22	The QC sample type MS for method SW846 8260B was outside the control limits for the analyte cis-1,3-Dichloropropene. The % Recovery was reported as 73.1 and the control limits were 76 to 123.
23	The QC sample type MS for method SW846 8260B was outside the control limits for the analyte 1,2,3-Trichlorobenzene. The % Recovery was reported as 67 and the control limits were 68 to 129.
24	The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Trichlorofluoromethane. The % Recovery was reported as 142 and the control limits were 40 to 130.
25	The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 57.6 and the control limits were 62 to 123. This result was reported at a dilution of 1.
26	The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte cis-1,3-Dichloropropene. The % Recovery was reported as 74.7 and the control limits were 76 to 123.
27	The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Freon 113. The % Recovery was reported as 110 and the control limits were 40 to 109.
28	The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 61.6 and the control limits were 62 to 123. This result was reported at a dilution of 1.
29	The QC type CCV for method SW846 6020A was outside the control limits for the analyte Sb. The % recovery was reported as 115 and the control limits were 90 to 110. The sample was non-detect. RBM 01-23-23



Compound METALS	<u>Result</u> <u>Units</u>			01/13/2023 09:02
METALS		<u>RDL</u>	Method	Flag
Aluminum, Total	11100 mg/kg	38.7	SW846 6020	IA #
Arsenic, Total	12.1 mg/kg	1.4	SW846 6020	IA #
Barium, Total	132 mg/kg	2.4	SW846 6020	IA #
Beryllium, Total	1.3 mg/kg	0.48	SW846 6020	IA #
Calcium, Total	36800 mg/kg	48.3	SW846 6020	A #
Chromium, Total	13.8 mg/kg	0.97	SW846 6020	IA #
Cobalt, Total	8.0 mg/kg	2.4	SW846 6020	IA #
Copper, Total	20.3 mg/kg	2.4	SW846 6020	IA #
Iron, Total	26400 mg/kg	24.2	SW846 6020	IA #
Lead, Total	94.7 mg/kg	0.97	SW846 6020	IA #
Magnesium, Total	4830 mg/kg	48.3	SW846 6020	IA #
Manganese, Total	730 mg/kg	2.4	SW846 6020	IA #
Mercury, Total	0.12 mg/kg	0.049	SW846 7471	в #
Nickel, Total	16.0 mg/kg	2.4	SW846 6020	IA #
Potassium, Total	1270 mg/kg	48.3	SW846 6020	IA #
Sodium, Total	177 mg/kg	48.3	SW846 6020	IA #
Trivalent Chromium	13.8 mg/kg	2.2	Calculation	#
Vanadium, Total	18.2 mg/kg	0.97	SW846 6020	IA #
Zinc, Total	82.3 mg/kg	2.4	SW846 6020	A #
VOLATILE ORGANICS				
Acetone	21.1 ug/kg	7.2	SW846 8260	IB #
WET CHEMISTRY				
Moisture	7.8 %	0.1	S2540G-11	#
Total Solids	92.2 %	0.1	S2540G-11	#



Client Sample ID Lab Sample ID	SB-03-8-10 3282987002			Collected Lab Receipt	01/11/2023 09:30 01/13/2023 09:02
Compound		Result Units	RDL	Metho	od <u>Flag</u>
METALS					
Aluminum, Total		4320 mg/kg	41.8	SW846	6020A #
Arsenic, Total		11.5 mg/kg	1.6	SW846	6020A #
Barium, Total		51.4 mg/kg	2.6	SW846	6020A #
Beryllium, Total		0.59 mg/kg	0.52	SW846	6020A #
Calcium, Total		10100 mg/kg	52.3	SW846	6020A #
Chromium, Total		11.9 mg/kg	1.0	SW846	6020A #
Cobalt, Total		6.6 mg/kg	2.6	SW846	6020A #
Copper, Total		12.6 mg/kg	2.6	SW846	6020A #
Iron, Total		24800 mg/kg	26.1	SW846	6020A #
Lead, Total		15.9 mg/kg	1.0	SW846	6020A #
Magnesium, Total		1540 mg/kg	52.3	SW846	6020A #
Manganese, Total		500 mg/kg	2.6	SW846	6020A #
Nickel, Total		12.8 mg/kg	2.6	SW846	6020A #
Potassium, Total		447 mg/kg	52.3	SW846	6020A #
Trivalent Chromium		11.9 mg/kg	2.3	Calcula	ation #
Vanadium, Total		12.2 mg/kg	1.0	SW846	6020A #
Zinc, Total		55.0 mg/kg	2.6	SW846	6020A #
WET CHEMISTRY	(				
Moisture		11.6 %	0.1	S2540	G-11 #
Total Solids		88.4 %	0.1	S2540	G-11 #
Moisture Total Solids					



Client Sample ID Lab Sample ID	SB-02-0-2 3282987003			Collected Lab Receipt	01/11/2023 10:40 01/13/2023 09:02
Compound		<u>Result</u> <u>Units</u>	RDL	Method	<u>i Flag</u>
METALS					
Aluminum, Total		7250 mg/kg	40.3	SW846 6	020A #
Antimony, Total		1.7 mg/kg	1.0	SW846 6	020A #
Arsenic, Total		17.2 mg/kg	1.5	SW846 6	020A #
Barium, Total		138 mg/kg	2.5	SW846 6	020A #
Beryllium, Total		0.79 mg/kg	0.50	SW846 6	020A #
Cadmium, Total		0.65 mg/kg	0.50	SW846 6	020A #
Calcium, Total		3960 mg/kg	50.4	SW846 6	020A #
Chromium, Total		17.9 mg/kg	1.0	SW846 6	020A #
Cobalt, Total		9.5 mg/kg	2.5	SW846 6	020A #
Copper, Total		44.0 mg/kg	2.5	SW846 6	020A #
ron, Total		27600 mg/kg	25.2	SW846 6	020A #
Lead, Total		122 mg/kg	1.0	SW846 6	020A #
Magnesium, Total		1550 mg/kg	50.4	SW846 6	020A #
Manganese, Total		731 mg/kg	2.5	SW846 6	020A #
Mercury, Total		0.12 mg/kg	0.051	SW846 7	471B #
Nickel, Total		19.2 mg/kg	2.5	SW846 6	020A #
Potassium, Total		896 mg/kg	50.4	SW846 6	020A #
Trivalent Chromium		17.9 mg/kg	2.4	Calculati	on #
Vanadium, Total		18.1 mg/kg	1.0	SW846 6	020A #
Zinc, Total		152 mg/kg	2.5	SW846 6	020A #
	(				
Moisture		15.4 %	0.1	S2540G-	11 #
Total Solids		84.6 %	0.1	S2540G-	11 #



Client Sample ID Lab Sample ID	SB-02-10-12 3282987004			Collected Lab Receipt	01/11/2023 10:45 01/13/2023 09:02
Compound		Result Units	RDL	Meth	od <u>Flag</u>
METALS					
Aluminum, Total		4020 mg/kg	40.5	SW846	5 6020A #
Arsenic, Total		8.1 mg/kg	1.5	SW846	6020A #
Barium, Total		47.6 mg/kg	2.5	SW846	6 6020A #
Calcium, Total		566 mg/kg	50.6	SW846	6020A #
Chromium, Total		7.8 mg/kg	1.0	SW846	6 6020A #
Cobalt, Total		4.1 mg/kg	2.5	SW846	6 6020A #
Copper, Total		10.6 mg/kg	2.5	SW846	6020A #
Iron, Total		24300 mg/kg	25.3	SW846	6020A #
Lead, Total		7.9 mg/kg	1.0	SW846	6020A #
Magnesium, Total		971 mg/kg	50.6	SW846	6020A #
Manganese, Total		569 mg/kg	2.5	SW846	6020A #
Nickel, Total		10.4 mg/kg	2.5	SW846	5 6020A #
Potassium, Total		314 mg/kg	50.6	SW846	6020A #
Trivalent Chromium		7.8 mg/kg	2.1	Calcul	ation #
Vanadium, Total		11.0 mg/kg	1.0	SW846	6020A #
Zinc, Total		39.9 mg/kg	2.5	SW846	5 6020A #
VOLATILE ORGA	NICS				
Methylene Chloride		1.1 ug/kg	1.1	SW846	5 8260B #
WET CHEMISTRY	<b>/</b>				
Moisture		5.8 %	0.1	S2540	G-11 #
Total Solids		94.2 %	0.1	S2540	G-11 #



	3-04-0-2 282987005		Collected Lab Receip		2023 11:40 2023 09:02
Compound	<u>Result</u>	<u>Units RI</u>	<u>)L</u>	Method	<u>Flag</u>
METALS					
luminum, Total	8670 r	ng/kg 43.	8	SW846 6020A	#
Arsenic, Total	10.3 r	ng/kg 1.6		SW846 6020A	#
Barium, Total	153 r	ng/kg 2.7		SW846 6020A	#
Beryllium, Total	0.73 r	ng/kg 0.5	5	SW846 6020A	#
Calcium, Total	2080 r	ng/kg 54.	8	SW846 6020A	#
Chromium, Total	12.8 r	ng/kg 1.1		SW846 6020A	#
Cobalt, Total	11.7 r	ng/kg 2.7		SW846 6020A	#
Copper, Total	14.8 r	ng/kg 2.7		SW846 6020A	#
ron, Total	27300 r	mg/kg 27.	4	SW846 6020A	#
.ead, Total	26.9 r	ng/kg 1.1		SW846 6020A	#
lagnesium, Total	1560 r	mg/kg 54.	8	SW846 6020A	#
langanese, Total	784 r	mg/kg 2.7	,	SW846 6020A	#
fercury, Total	0.063 r	mg/kg 0.05	3	SW846 7471B	#
lickel, Total	19.5 r	mg/kg 2.7	,	SW846 6020A	#
Potassium, Total	1150 r	mg/kg 54.	8	SW846 6020A	#
rivalent Chromium	12.8 r	mg/kg 2.2		Calculation	#
′anadium, Total	19.3 r	mg/kg 1.1		SW846 6020A	#
linc, Total	68.5 r	ng/kg 2.7	,	SW846 6020A	#
OLATILE ORGANICS					
cetone	40.0 .	ug/kg 5.7	,	SW846 8260B	#
1ethyl cyclohexane	1.2 .	ug/kg 1.1		SW846 8260B	#
NET CHEMISTRY					
loisture	11.1 \$	% 0.1		S2540G-11	#
otal Solids	88.9 %	% 0.1		S2540G-11	#



Client Sample ID Lab Sample ID	SB-04-14-16 3282987006			Collected Lab Receipt	01/11/2023 11:45 01/13/2023 09:02
Compound		Result Units	RDL	Meth	hod Flag
METALS					
Aluminum, Total		5890 mg/kg	47.8	SW84	46 6020A #
Arsenic, Total		10.6 mg/kg	1.8	SW84	46 6020A #
Barium, Total		64.7 mg/kg	3.0	SW84	46 6020A #
Calcium, Total		904 mg/kg	59.8	SW84	46 6020A #
Chromium, Total		10.2 mg/kg	1.2	SW84	46 6020A #
Cobalt, Total		9.5 mg/kg	3.0	SW84	46 6020A #
Copper, Total		13.1 mg/kg	3.0	SW84	46 6020A #
Iron, Total		27700 mg/kg	29.9	SW84	46 6020A #
Lead, Total		11.8 mg/kg	1.2	SW84	46 6020A #
Magnesium, Total		1480 mg/kg	59.8	SW84	46 6020A #
Manganese, Total		747 mg/kg	3.0	SW84	46 6020A #
Nickel, Total		15.1 mg/kg	3.0	SW84	46 6020A #
Potassium, Total		533 mg/kg	59.8	SW84	46 6020A #
Trivalent Chromium		10.2 mg/kg	2.4	Calcu	Ilation #
Vanadium, Total		15.7 mg/kg	1.2	SW84	46 6020A #
Zinc, Total		54.9 mg/kg	3.0	SW84	46 6020A #
VOLATILE ORGA	NICS				
Tetrachloroethene		15.0 ug/kg	1.1	SW84	46 8260B #
WET CHEMISTRY	,				
Moisture		18.5 %	0.1	S254	0G-11 #
Total Solids		81.5 %	0.1	S254	0G-11 #



Client Sample ID Lab Sample ID	SB-05-0-2 3282987007			Collected Lab Receipt	01/11/20: 01/13/20:	23 12:55 23 09:02
<u>Compound</u>		Result Units	<u>RDL</u>	Met	nod	<u>Flag</u>
METALS						
Aluminum, Total		9390 mg/kg	44.4	SW8	46 6020A	#
Arsenic, Total		12.0 mg/kg	1.7	SW8	46 6020A	#
Barium, Total		145 mg/kg	2.8	SW8	46 6020A	#
Beryllium, Total		0.73 mg/kg	0.55	SW8	46 6020A	#
Calcium, Total		2200 mg/kg	55.5	SW8	46 6020A	#
Chromium, Total		14.6 mg/kg	1.1	SW8	46 6020A	#
Cobalt, Total		11.6 mg/kg	2.8	SW8	46 6020A	#
Copper, Total		19.7 mg/kg	2.8	SW8	46 6020A	#
ron, Total		29100 mg/kg	27.7	SW8	46 6020A	#
Lead, Total		54.8 mg/kg	1.1	SW8	46 6020A	#
Magnesium, Total		1740 mg/kg	55.5	SW8	46 6020A	#
Manganese, Total		829 mg/kg	2.8	SW8	46 6020A	#
Mercury, Total		0.10 mg/kg	0.050	SW8	46 7471B	#
Nickel, Total		19.3 mg/kg	2.8	SW8	46 6020A	#
Potassium, Total		979 mg/kg	55.5	SW8	46 6020A	#
Trivalent Chromium		14.6 mg/kg	2.3	Calcu	ulation	#
Vanadium, Total		20.4 mg/kg	1.1	SW8	46 6020A	#
Zinc, Total		87.5 mg/kg	2.8	SW84	46 6020A	#
WET CHEMISTRY						
Moisture		14.3 %	0.1	S254	0G-11	#
Total Solids		85.7 %	0.1	S254	0G-11	#



Client Sample ID Lab Sample ID	SB-05-4-6 3282987008			Collected Lab Receipt		)23 13:00 )23 09:02
Compound		<u>Result</u> <u>Units</u>	RDL	Met	hod	<u>Flag</u>
METALS						
Aluminum, Total		10200 mg/kg	45.0	SW8	46 6020A	#
Arsenic, Total		12.0 mg/kg	1.7	SW8	46 6020A	#
Barium, Total		120 mg/kg	2.8	SW8	46 6020A	#
Beryllium, Total		0.76 mg/kg	0.56	SW8	46 6020A	#
Calcium, Total		1710 mg/kg	56.2	SW8	46 6020A	#
Chromium, Total		13.9 mg/kg	1.1	SW8	46 6020A	#
Cobalt, Total		12.7 mg/kg	2.8	SW8	46 6020A	#
Copper, Total		17.0 mg/kg	2.8	SW8	46 6020A	#
Iron, Total		30600 mg/kg	28.1	SW8	46 6020A	#
Lead, Total		15.7 mg/kg	1.1	SW8	46 6020A	#
Magnesium, Total		2280 mg/kg	56.2	SW8	46 6020A	#
Manganese, Total		990 mg/kg	2.8	SW8	46 6020A	#
Nickel, Total		22.3 mg/kg	2.8	SW8	46 6020A	#
Potassium, Total		867 mg/kg	56.2	SW8	46 6020A	#
Trivalent Chromium		13.9 mg/kg	2.4	Calc	ulation	#
Vanadium, Total		21.4 mg/kg	1.1	SW8	46 6020A	#
Zinc, Total		73.7 mg/kg	2.8	SW8	46 6020A	#
WET CHEMISTRY	,					
Moisture		18.1 %	0.1	S254	0G-11	#
Total Solids		81.9 %	0.1	S254	0G-11	#



Client Sample ID Lab Sample ID	SB-06-0-2 3282987009			Collected Lab Receipt		23 14:30 23 09:02
Compound		<u>Result</u> <u>Units</u>	RDL	Met	hod	<u>Flag</u>
METALS						
Aluminum, Total		9400 mg/kg	44.1	SW8	46 6020A	#
Arsenic, Total		10.9 mg/kg	1.7	SW8	46 6020A	#
Barium, Total		232 mg/kg	2.8	SW8	46 6020A	#
Beryllium, Total		0.78 mg/kg	0.55	SW8	46 6020A	#
Calcium, Total		1760 mg/kg	55.1	SW8	46 6020A	#
Chromium, Total		13.7 mg/kg	1.1	SW8	46 6020A	#
Cobalt, Total		11.7 mg/kg	2.8	SW8	46 6020A	#
Copper, Total		18.3 mg/kg	2.8	SW8	46 6020A	#
Iron, Total		27200 mg/kg	27.5	SW8	46 6020A	#
Lead, Total		35.0 mg/kg	1.1	SW8	46 6020A	#
Magnesium, Total		1630 mg/kg	55.1	SW8	46 6020A	#
Manganese, Total		1090 mg/kg	2.8	SW8	46 6020A	#
Nickel, Total		21.8 mg/kg	2.8	SW8	46 6020A	#
Potassium, Total		1210 mg/kg	55.1	SW8	46 6020A	#
Trivalent Chromium		13.6 mg/kg	2.4	Calc	ulation	#
Vanadium, Total		18.9 mg/kg	1.1	SW8	46 6020A	#
Zinc, Total		88.5 mg/kg	2.8	SW8	46 6020A	#
WET CHEMISTRY	,					
Moisture		15.5 %	0.1	S254	0G-11	#
Total Solids		84.5 %	0.1	S254	0G-11	#



Client Sample ID Lab Sample ID	SB-06-8-10 3282987010			Collected Lab Receipt	01/11/2023 14:35 01/13/2023 09:02
Compound		<u>Result</u> <u>Units</u>	RDL	Meth	od Flag
METALS					
Aluminum, Total		7560 mg/kg	40.4	SW84	6 6020A #
Arsenic, Total		11.8 mg/kg	1.5	SW84	6 6020A #
Barium, Total		92.1 mg/kg	2.5	SW84	6 6020A #
Beryllium, Total		0.74 mg/kg	0.50	SW84	6 6020A #
Calcium, Total		1220 mg/kg	50.5	SW84	6 6020A #
Chromium, Total		12.5 mg/kg	1.0	SW84	6 6020A #
Cobalt, Total		9.8 mg/kg	2.5	SW84	6 6020A #
Copper, Total		15.5 mg/kg	2.5	SW84	6 6020A #
Iron, Total		29400 mg/kg	25.2	SW84	6 6020A #
Lead, Total		13.3 mg/kg	1.0	SW84	6 6020A #
Magnesium, Total		1540 mg/kg	50.5	SW84	6 6020A #
Manganese, Total		674 mg/kg	2.5	SW84	6 6020A #
Nickel, Total		18.2 mg/kg	2.5	SW84	6 6020A #
Potassium, Total		652 mg/kg	50.5	SW84	6 6020A #
Trivalent Chromium		12.5 mg/kg	2.3	Calcul	lation #
Vanadium, Total		17.6 mg/kg	1.0	SW84	6 6020A #
Zinc, Total		63.8 mg/kg	2.5	SW84	6 6020A #
VOLATILE ORGAN	lics				
Tetrachloroethene		4.1 ug/kg	0.90	SW84	6 8260B #
WET CHEMISTRY					
Moisture		16.5 %	0.1	S2540	IG-11 #
Total Solids		83.5 %	0.1	S2540	IG-11 #



Client Sample ID Lab Sample ID	SB-07-0-2 3282987011				1/11/2023 15:25 1/13/2023 09:02
Compound		Result Units	RDL	Method	<u>Flag</u>
METALS					
Aluminum, Total		8020 mg/kg	45.7	SW846 6020A	#
Antimony, Total		1.7 mg/kg	1.1	SW846 6020A	#
Arsenic, Total		11.8 mg/kg	1.7	SW846 6020A	#
Barium, Total		113 mg/kg	2.9	SW846 6020A	#
Beryllium, Total		0.92 mg/kg	0.57	SW846 6020A	#
Calcium, Total		21700 mg/kg	57.1	SW846 6020A	#
Chromium, Total		9.9 mg/kg	1.1	SW846 6020A	#
Cobalt, Total		6.9 mg/kg	2.9	SW846 6020A	#
Copper, Total		25.9 mg/kg	2.9	SW846 6020A	#
Iron, Total		21400 mg/kg	28.5	SW846 6020A	#
Lead, Total		157 mg/kg	1.1	SW846 6020A	#
Magnesium, Total		3150 mg/kg	57.1	SW846 6020A	#
Manganese, Total		718 mg/kg	2.9	SW846 6020A	#
Mercury, Total		0.083 mg/kg	0.062	SW846 7471B	#
Nickel, Total		14.8 mg/kg	2.9	SW846 6020A	#
Potassium, Total		889 mg/kg	57.1	SW846 6020A	#
Sodium, Total		107 mg/kg	57.1	SW846 6020A	#
Trivalent Chromium		9.9 mg/kg	2.4	Calculation	#
Vanadium, Total		15.4 mg/kg	1.1	SW846 6020A	#
Zinc, Total		71.2 mg/kg	2.9	SW846 6020A	#
VOLATILE ORGA	NICS				
Acetone		11.2 ug/kg	5.7	SW846 8260B	#
WET CHEMISTRY	,				
Moisture		20.1 %	0.1	S2540G-11	#
Total Solids		79.9 %	0.1	S2540G-11	#



Compound METALS Aluminum, Total Arsenic, Total Barium, Total	<u>Result</u> <u>Units</u>	RDL		
Aluminum, Total Arsenic, Total Barium, Total			Method	<u>Flag</u>
Arsenic, Total Barium, Total				
Barium, Total	11100 mg/kg	45.6	SW846 6020A	#
,	10.9 mg/kg	1.7	SW846 6020A	#
	143 mg/kg	2.9	SW846 6020A	#
Beryllium, Total	1.5 mg/kg	0.57	SW846 6020A	#
Calcium, Total	40600 mg/kg	57.0	SW846 6020A	#
Chromium, Total	10.6 mg/kg	1.1	SW846 6020A	#
Cobalt, Total	6.4 mg/kg	2.9	SW846 6020A	#
Copper, Total	24.8 mg/kg	2.9	SW846 6020A	#
Iron, Total	20100 mg/kg	28.5	SW846 6020A	#
Lead, Total	84.7 mg/kg	1.1	SW846 6020A	#
Magnesium, Total	5860 mg/kg	57.0	SW846 6020A	#
Manganese, Total	1210 mg/kg	2.9	SW846 6020A	#
Mercury, Total	0.13 mg/kg	0.062	SW846 7471B	#
Nickel, Total	14.3 mg/kg	2.9	SW846 6020A	#
Potassium, Total	1120 mg/kg	57.0	SW846 6020A	#
Sodium, Total	150 mg/kg	57.0	SW846 6020A	#
Trivalent Chromium	10.6 mg/kg	2.5	Calculation	#
Vanadium, Total	15.6 mg/kg	1.1	SW846 6020A	#
Zinc, Total	63.0 mg/kg	2.9	SW846 6020A	#
VOLATILE ORGANICS				
Acetone	10.4 ug/kg	7.4	SW846 8260B	#
WET CHEMISTRY				
Moisture	19.4 %	0.1	S2540G-11	#
Total Solids	80.6 %	0.1	S2540G-11	#



Client Sample ID Lab Sample ID	SB-01-0-2 3282987013			Collected Lab Receipt	01/12/20 01/13/20	23 09:50 23 09:02
<u>Compound</u>		Result Units	RDL	Met	nod	<u>Flag</u>
METALS						
Aluminum, Total		9000 mg/kg	40.3	SW8	46 6020A	#
Arsenic, Total		9.5 mg/kg	1.5	SW8	46 6020A	#
Barium, Total		74.9 mg/kg	2.5	SW8	46 6020A	#
Beryllium, Total		0.66 mg/kg	0.50	SW8	46 6020A	#
Calcium, Total		25600 mg/kg	50.3	SW8	46 6020A	#
Chromium, Total		11.8 mg/kg	1.0	SW8	46 6020A	#
Cobalt, Total		8.8 mg/kg	2.5	SW8	46 6020A	#
Copper, Total		14.8 mg/kg	2.5	SW8	46 6020A	#
ron, Total		25500 mg/kg	25.2	SW8	46 6020A	#
Lead, Total		12.1 mg/kg	1.0	SW8	46 6020A	#
Magnesium, Total		2870 mg/kg	50.3	SW8	46 6020A	#
Manganese, Total		1270 mg/kg	2.5	SW8	46 6020A	#
Nickel, Total		14.9 mg/kg	2.5	SW8	46 6020A	#
Potassium, Total		1100 mg/kg	50.3	SW8	46 6020A	#
Sodium, Total		235 mg/kg	50.3	SW8	46 6020A	#
Trivalent Chromium		11.8 mg/kg	2.3	Calco	ılation	#
Vanadium, Total		22.0 mg/kg	1.0	SW8	46 6020A	#
Zinc, Total		56.9 mg/kg	2.5	SW8	46 6020A	#
WET CHEMISTRY						
Moisture		13.5 %	0.1	S254	0G-11	#
Total Solids		86.5 %	0.1	S254	0G-11	#



Client Sample ID Lab Sample ID	SB-01-10-12 3282987014			Collected Lab Receipt	01/12/2023 09:55 01/13/2023 09:02
Compound		<u>Result</u> <u>Units</u>	RDL	Metho	d <u>Flag</u>
METALS					
Aluminum, Total		6330 mg/kg	39.6	SW846	6020A #
Arsenic, Total		11.2 mg/kg	1.5	SW846	6020A #
Barium, Total		43.5 mg/kg	2.5	SW846	6020A #
Calcium, Total		935 mg/kg	49.5	SW846	6020A #
Chromium, Total		13.1 mg/kg	0.99	SW846	6020A #
Cobalt, Total		10.6 mg/kg	2.5	SW846	6020A #
Copper, Total		14.2 mg/kg	2.5	SW846	6020A #
Iron, Total		29900 mg/kg	24.7	SW846	6020A #
Lead, Total		12.8 mg/kg	0.99	SW846	6020A #
Magnesium, Total		1340 mg/kg	49.5	SW846	6020A #
Manganese, Total		701 mg/kg	2.5	SW846	6020A #
Nickel, Total		14.8 mg/kg	2.5	SW846	6020A #
Potassium, Total		672 mg/kg	49.5	SW846	6020A #
Sodium, Total		232 mg/kg	49.5	SW846	6020A #
Trivalent Chromium		12.1 mg/kg	2.3	Calcula	tion #
Vanadium, Total		16.6 mg/kg	0.99	SW846	6020A #
Zinc, Total		55.5 mg/kg	2.5	SW846	6020A #
	NICS				
Acetone		6.9 ug/kg	4.7	SW846	8260B #
WET CHEMISTRY	,				
Moisture		13.0 %	0.1	S2540G	-11 #
Total Solids		87.0 %	0.1	S2540G	-11 #



Client Sample ID Lab Sample ID	SB-11-0-2 3282987015			Collected Lab Receipt	01/12/2023 13:15 01/13/2023 09:02
Compound		Result Units	RDL	Method	<u>Flag</u>
METALS					
Aluminum, Total		12000 mg/kg	40.8	SW846 602	0A #
Arsenic, Total		14.3 mg/kg	1.5	SW846 602	0A #
Barium, Total		232 mg/kg	2.6	SW846 602	0A #
Beryllium, Total		1.4 mg/kg	0.51	SW846 602	0A #
Calcium, Total		37900 mg/kg	51.0	SW846 602	OA #
Chromium, Total		10.0 mg/kg	1.0	SW846 602	OA #
Cobalt, Total		6.7 mg/kg	2.6	SW846 602	OA #
Copper, Total		18.1 mg/kg	2.6	SW846 602	0A #
Iron, Total		24900 mg/kg	25.5	SW846 602	0A #
Lead, Total		61.0 mg/kg	1.0	SW846 602	0A #
Magnesium, Total		7470 mg/kg	51.0	SW846 602	0A #
Manganese, Total		2850 mg/kg	2.6	SW846 602	0A #
Mercury, Total		0.10 mg/kg	0.050	SW846 747	1B #
Nickel, Total		12.6 mg/kg	2.6	SW846 602	0A #
Potassium, Total		1320 mg/kg	51.0	SW846 602	0A #
Sodium, Total		250 mg/kg	51.0	SW846 602	0A #
Trivalent Chromium		10.0 mg/kg	2.2	Calculation	• #
Vanadium, Total		17.4 mg/kg	1.0	SW846 602	0A #
Zinc, Total		78.1 mg/kg	2.6	SW846 602	OA #
VOLATILE ORGA	NICS				
Acetone		11.4 ug/kg	6.7	SW846 826	0B #
Carbon Disulfide		6.8 ug/kg	1.3	SW846 826	0B #
WET CHEMISTR	Y				
Moisture		9.1 %	0.1	S2540G-11	#
Total Solids		90.9 %	0.1	S2540G-11	#



Client Sample ID Lab Sample ID	SB-11-6-8 3282987016			Collected Lab Receipt	01/12/2023 13:20 01/13/2023 09:02
Compound		<u>Result</u> <u>Units</u>	RDL	Method	<u>Flag</u>
METALS					
Aluminum, Total		5500 mg/kg	45.3	SW846 602	:0A #
Arsenic, Total		12.4 mg/kg	1.7	SW846 602	0A #
Barium, Total		72.3 mg/kg	2.8	SW846 602	:0A #
Beryllium, Total		0.59 mg/kg	0.57	SW846 602	:0A #
Calcium, Total		2090 mg/kg	56.6	SW846 602	:0A #
Chromium, Total		11.3 mg/kg	1.1	SW846 602	:0A #
Cobalt, Total		7.7 mg/kg	2.8	SW846 602	:0A #
Copper, Total		13.0 mg/kg	2.8	SW846 602	:0A #
Iron, Total		27600 mg/kg	28.3	SW846 602	:0A #
Lead, Total		13.4 mg/kg	1.1	SW846 602	:0A #
Magnesium, Total		1310 mg/kg	56.6	SW846 602	:0A #
Manganese, Total		382 mg/kg	2.8	SW846 602	:0A #
Mercury, Total		0.11 mg/kg	0.056	SW846 747	1B #
Nickel, Total		13.6 mg/kg	2.8	SW846 602	:0A #
Potassium, Total		737 mg/kg	56.6	SW846 602	:0A #
Sodium, Total		139 mg/kg	56.6	SW846 602	:0A #
Trivalent Chromium		11.3 mg/kg	2.4	Calculation	• #
Vanadium, Total		15.0 mg/kg	1.1	SW846 602	:0A #
Zinc, Total		51.3 mg/kg	2.8	SW846 602	OA #
VOLATILE ORGA	NICS				
Acetone		11.1 ug/kg	6.7	SW846 826	0B #
	<i>,</i>				
Moisture		15.8 %	0.1	S2540G-11	#
Total Solids		84.2 %	0.1	S2540G-11	#



Client Sample ID Lab Sample ID	SB-12-0-2 3282987017				)1/12/2023 12:20 )1/13/2023 09:02
Compound		Result Units	<u>RDL</u>	Method	<u>Flag</u>
METALS					
Aluminum, Total		8960 mg/kg	42.2	SW846 6020A	A #
Arsenic, Total		15.4 mg/kg	1.6	SW846 6020A	A #
Barium, Total		126 mg/kg	2.6	SW846 60204	A #
Beryllium, Total		1.1 mg/kg	0.53	SW846 60204	A #
Cadmium, Total		0.67 mg/kg	0.53	SW846 60204	A #
Calcium, Total		9300 mg/kg	52.7	SW846 60204	A #
Chromium, Total		13.0 mg/kg	1.1	SW846 60204	A #
Cobalt, Total		9.5 mg/kg	2.6	SW846 60204	A #
Copper, Total		37.6 mg/kg	2.6	SW846 60204	A #
ron, Total		30000 mg/kg	26.4	SW846 60204	A #
Lead, Total		57.2 mg/kg	1.1	SW846 60204	A #
Magnesium, Total		2530 mg/kg	52.7	SW846 60204	A #
Manganese, Total		423 mg/kg	2.6	SW846 60204	A #
Mercury, Total		0.18 mg/kg	0.052	SW846 7471B	#
Nickel, Total		18.6 mg/kg	2.6	SW846 60204	A #
Potassium, Total		982 mg/kg	52.7	SW846 60204	A #
Sodium, Total		208 mg/kg	52.7	SW846 60204	A #
Trivalent Chromium		13.0 mg/kg	2.2	Calculation	#
Vanadium, Total		17.7 mg/kg	1.1	SW846 60204	A #
Zinc, Total		119 mg/kg	2.6	SW846 6020	A #
VOLATILE ORGA	NICS				
Acetone		7.8 ug/kg	5.8	SW846 8260E	3 #
Carbon Disulfide		3.0 ug/kg	1.2	SW846 8260E	3 #
WET CHEMISTRY	,				
Moisture		12.5 %	0.1	S2540G-11	#
Total Solids		87.5 %	0.1	S2540G-11	#



Compound         Rosult         Units         RDL         Method           METALS             SW846 4020A           Arsenic, Total         8.4 mg/kg         1.8         SW846 4020A           Barium, Total         16.3 mg/kg         2.9         SW846 4020A           Barium, Total         0.80 mg/kg         0.58         SW846 4020A           Beryllum, Total         0.80 mg/kg         0.58         SW846 4020A           Calcium, Total         0.80 mg/kg         58.5         SW846 4020A           Calcium, Total         12 mg/kg         12         SW846 4020A           Cobalt, Total         10.3 mg/kg         2.9         SW846 4020A           Cobalt, Total         12.0 mg/kg         2.9         SW846 4020A           Copper, Total         10.3 mg/kg         2.9         SW846 4020A           Copper, Total         10.3 mg/kg         2.9         SW846 4020A           Lead, Total         17.7 mg/kg         1.2         SW846 4020A           Marganese, Total         0.027 mg/kg         0.055         SW846 4020A           Mercury, Total         0.027 mg/kg         2.9         SW846 4020A           Nickel, Total         18.8 mg/kg         2.9	)23 12:25 )23 09:02
Aluminum, Total       7270       mg/kg       64.8       SV846 6020A         Arsenic, Total       8.4       mg/kg       1.8       SV846 6020A         Barium, Total       163       mg/kg       2.9       SV846 6020A         Berytlium, Total       0.80       mg/kg       0.58       SV846 6020A         Catcium, Total       2.00       mg/kg       58.5       SV846 6020A         Catcium, Total       11.2       mg/kg       1.2       SV846 6020A         Chromium, Total       11.2       mg/kg       2.9       SV846 6020A         Cobalt, Total       10.3       mg/kg       2.9       SV846 6020A         Copper, Total       13.9       mg/kg       2.9       SV846 6020A         Iron, Total       24900       mg/kg       2.9       SV846 6020A         Iron, Total       13.9       mg/kg       2.9       SV846 6020A         Magnesium, Total       14.0       mg/kg       2.9       SV846 6020A         Magnesium, Total       16.0       mg/kg       2.9       SV846 6020A         Magnesium, Total       0.072       mg/kg       0.95       SV846 6020A         Nickel, Total       0.8       mg/kg       2.9       SV846 6020A	<u>Flag</u>
Arsenic, Total         8.4 mg/kg         1.8         SW846 6020A           Barium, Total         163 mg/kg         2.9         SW846 6020A           Berytlium, Total         0.80 mg/kg         0.58         SW846 6020A           Calcium, Total         2400 mg/kg         58.5         SW846 6020A           Chromium, Total         112 mg/kg         12         SW846 6020A           Cobalt, Total         0.3 mg/kg         2.9         SW846 6020A           Cobalt, Total         13.9 mg/kg         2.9         SW846 6020A           Coper, Total         13.9 mg/kg         2.9         SW846 6020A           Lead, Total         17.7 mg/kg         12         SW846 6020A           Magnese, Total         140 mg/kg         58.5         SW846 6020A           Marganese, Total         140 mg/kg         58.5         SW846 6020A           Marganese, Total         0.072 mg/kg         0.055         SW846 6020A           Nickel, Total         0.072 mg/kg         2.9         SW846 6020A           Nickel, Total         18.8 mg/kg         2.9         SW846 6020A           Sodium, Total         214 mg/kg         58.5         SW846 6020A           Sodium, Total         214 mg/kg         58.5         SW846 6020A<	
Barium, Total         B3 mg/kg         2.9         SW846 6020A           Berytlium, Total         0.80 mg/kg         0.58         SW846 6020A           Calcium, Total         2400 mg/kg         58.5         SW846 6020A           Chromium, Total         11.2 mg/kg         1.2         SW846 6020A           Cobalt, Total         10.3 mg/kg         2.9         SW846 6020A           Copper, Total         13.9 mg/kg         2.9         SW846 6020A           Lead, Total         17.7 mg/kg         2.9         SW846 6020A           Lead, Total         17.7 mg/kg         2.9         SW846 6020A           Magnesium, Total         140 mg/kg         58.5         SW846 6020A           Magnesium, Total         140 mg/kg         58.5         SW846 6020A           Magnesium, Total         0.072 mg/kg         0.055         SW846 6020A           Mercury, Total         0.072 mg/kg         0.055         SW846 6020A           Mickel, Total         18.8 mg/kg         2.9         SW846 6020A           Sodium, Total         842 mg/kg         58.5         SW846 6020A           Sodium, Total         12.8 mg/kg         2.9         SW846 6020A           Sodium, Total         64.2 mg/kg         58.5         SW84	#
Beryllium, Total         0.80 mg/kg         0.58         SW846 6020A           Calcium, Total         2400 mg/kg         58.5         SW846 6020A           Chromium, Total         112 mg/kg         1.2         SW846 6020A           Cobalt, Total         10.3 mg/kg         2.9         SW846 6020A           Copper, Total         13.9 mg/kg         2.9         SW846 6020A           Lead, Total         24900 mg/kg         2.9         SW846 6020A           Lead, Total         17.7 mg/kg         1.2         SW846 6020A           Magnesum, Total         1410 mg/kg         58.5         SW846 6020A           Magneser, Total         1400 mg/kg         58.5         SW846 6020A           Margneser, Total         0.072 mg/kg         0.055         SW846 6020A           Mercury, Total         0.072 mg/kg         0.055         SW846 6020A           Nickel, Total         8.8 mg/kg         2.9         SW846 6020A           Sodium, Total         18.8 mg/kg         2.9         SW846 6020A           Sodium, Total         18.8 mg/kg         2.9         SW846 6020A           Sodium, Total         112 mg/kg         2.4         Calculation           Trivalent Chromium         112 mg/kg         2.9         S	#
Carling Total         2400         mg/kg         58.5         SW846 6020A           Chromium, Total         112         mg/kg         2.9         SW846 6020A           Cobalt, Total         10.3         mg/kg         2.9         SW846 6020A           Copper, Total         13.9         mg/kg         2.9         SW846 6020A           Copper, Total         13.9         mg/kg         2.9         SW846 6020A           Lead, Total         24900         mg/kg         2.9         SW846 6020A           Lead, Total         17.7         mg/kg         1.2         SW846 6020A           Magnesium, Total         14.0         mg/kg         58.5         SW846 6020A           Magnesium, Total         0.072         mg/kg         2.9         SW846 6020A           Mercury, Total         0.072         mg/kg         2.9         SW846 6020A           Nickel, Total         18.8         mg/kg         2.9         SW846 6020A           Sodium, Total         24         mg/kg         58.5         SW846 6020A           Sodium, Total         12         mg/kg         2.9         SW846 6020A           Sodium, Total         15.7         mg/kg         2.4         Calculation	#
Chromium, Total       11.2 mg/kg       1.2       SW846 6020A         Cobalt, Total       10.3 mg/kg       2.9       SW846 6020A         Copper, Total       13.9 mg/kg       2.9       SW846 6020A         Iron, Total       24900 mg/kg       29.2       SW846 6020A         Lead, Total       17.7 mg/kg       1.2       SW846 6020A         Magnesium, Total       1400 mg/kg       58.5       SW846 6020A         Magnesium, Total       0.072 mg/kg       2.9       SW846 6020A         Marganese, Total       0.072 mg/kg       0.055       SW846 6020A         Marganesium, Total       0.072 mg/kg       2.9       SW846 6020A         Mickel, Total       18.8 mg/kg       2.9       SW846 6020A         Nickel, Total       842 mg/kg       58.5       SW846 6020A         Sodium, Total       2.14 mg/kg       58.5       SW846 6020A         Sodium, Total       12.1 mg/kg       2.4       Calculation         Valadium, Total       15.7 mg/kg       1.2       SW846 6020A         Vanadium, Total       62.2 mg/kg       2.9       SW846 6020A         VolLATILE ORGANICS       2.9       SW846 6020A       SW846 6020A         Aceone       12.8 ug/kg       4.8       <	#
Cobalt, Total         10.3 mg/kg         2.9         SW846 6020A           Cobalt, Total         13.9 mg/kg         2.9         SW846 6020A           Lron, Total         24900 mg/kg         29.2         SW846 6020A           Lead, Total         17.7 mg/kg         1.2         SW846 6020A           Magnesium, Total         1410 mg/kg         58.5         SW846 6020A           Magnesium, Total         0.072 mg/kg         2.9         SW846 6020A           Marcury, Total         0.072 mg/kg         0.055         SW846 6020A           Marcury, Total         0.072 mg/kg         0.055         SW846 6020A           Nickel, Total         18.8 mg/kg         2.9         SW846 6020A           Notassium, Total         0.072 mg/kg         0.055         SW846 6020A           Notassium, Total         18.8 mg/kg         2.9         SW846 6020A           Sodium, Total         18.4 mg/kg         58.5         SW846 6020A           Sodium, Total         11.2 mg/kg         2.4         Calculation           Vanadium, Total         15.7 mg/kg         1.2         SW846 6020A           Zinc, Total         66.2 mg/kg         2.9         SW846 6020A           VOLATILE ORGANICS         X846 6020A         SW846 8260B	#
Copper, Total         13.9         mg/kg         2.9         SW846 6020A           Iron, Total         2490         mg/kg         29.2         SW846 6020A           Lead, Total         17.7         mg/kg         1.2         SW846 6020A           Magnesium, Total         1410         mg/kg         58.5         SW846 6020A           Magnese, Total         042         mg/kg         2.9         SW846 6020A           Marganese, Total         062         mg/kg         2.9         SW846 6020A           Mercury, Total         0.072         mg/kg         2.9         SW846 6020A           Mercury, Total         0.072         mg/kg         2.9         SW846 6020A           Mercury, Total         0.072         mg/kg         2.9         SW846 6020A           Nickel, Total         0.82         mg/kg         2.9         SW846 6020A           Sodium, Total         12         mg/kg         2.9         SW846 6020A           Sodium, Total         12         mg/kg         2.4         Calculation           Vanadium, Total         15.7         mg/kg         2.9         SW846 6020A           Vol.ATILE ORGANICS         X         X         SW846 6020A         SW846 820B	#
Tron, Total         24900         mg/kg         29.2         SW846 6020A           Lead, Total         17.7         mg/kg         1.2         SW846 6020A           Magnesium, Total         1410         mg/kg         58.5         SW846 6020A           Magnesium, Total         1410         mg/kg         2.9         SW846 6020A           Manganese, Total         962         mg/kg         2.9         SW846 6020A           Mercury, Total         0.072         mg/kg         0.055         SW846 6020A           Nickel, Total         0.072         mg/kg         2.9         SW846 6020A           Nickel, Total         0.072         mg/kg         2.9         SW846 6020A           Potassium, Total         1.8.8         mg/kg         2.9         SW846 6020A           Potassium, Total         214         mg/kg         58.5         SW846 6020A           Sodium, Total         1.2         mg/kg         2.4         Calculation           Vanadium, Total         15.7         mg/kg         2.9         SW846 6020A           VOLATILE ORGANICS         2.9         SW846 6020A         SW846 6020A           Acetone         12.8         ug/kg         4.8         SW846 8260B	#
Lead, Total         17.7         mg/kg         1.2         SW846 6020A           Magnesium, Total         1410         mg/kg         58.5         SW846 6020A           Manganese, Total         962         mg/kg         2.9         SW846 6020A           Mercury, Total         0.072         mg/kg         0.055         SW846 6020A           Nickel, Total         18.8         mg/kg         2.9         SW846 6020A           Nickel, Total         18.8         mg/kg         2.9         SW846 6020A           Potassium, Total         842         mg/kg         2.9         SW846 6020A           Sodium, Total         18.4         mg/kg         2.9         SW846 6020A           Sodium, Total         18.4         mg/kg         58.5         SW846 6020A           Sodium, Total         11.2         mg/kg         2.4         Calculation           Vanadium, Total         15.7         mg/kg         2.9         SW846 6020A           Zinc, Total         66.2         mg/kg         2.9         SW846 6020A           VOLATILE ORGANICS         2.9         SW846 6020A         SW846 6020A           Acetone         12.8         ug/kg         4.8         SW846 8260B	#
Lace, Nutr         By S           Magnesium, Total         1410 mg/kg         58.5         SW846 6020A           Manganese, Total         962 mg/kg         2.9         SW846 6020A           Mercury, Total         0.072 mg/kg         0.055         SW846 6020A           Nickel, Total         18.8 mg/kg         2.9         SW846 6020A           Potassium, Total         18.8 mg/kg         2.9         SW846 6020A           Sodium, Total         18.8 mg/kg         58.5         SW846 6020A           Sodium, Total         214 mg/kg         58.5         SW846 6020A           Trivalent Chromium         11.2 mg/kg         2.4         Calculation           Vanadium, Total         15.7 mg/kg         1.2         SW846 6020A           Zinc, Total         66.2 mg/kg         2.9         SW846 6020A           VOLATILE ORGANICS         2.9         SW846 6020A           Acetone         12.8 ug/kg         4.8         SW846 8260B	#
Manganese, Total         962 mg/kg         2.9         SW846 6020A           Mercury, Total         0.072 mg/kg         0.055         SW846 7471B           Nickel, Total         18.8 mg/kg         2.9         SW846 6020A           Potassium, Total         842 mg/kg         58.5         SW846 6020A           Sodium, Total         214 mg/kg         58.5         SW846 6020A           Trivalent Chromium         11.2 mg/kg         2.4         Calculation           Vanadium, Total         15.7 mg/kg         1.2         SW846 6020A           Zinc, Total         66.2 mg/kg         2.9         SW846 6020A           VOLATILE ORGANICS         12.8 ug/kg         4.8         SW846 6020A           WET CHEMISTRY         12.8 ug/kg         4.8         SW846 8260B	#
Mercury, Total         0.072 mg/kg         0.055         SW846 7471B           Nickel, Total         18.8 mg/kg         2.9         SW846 6020A           Potassium, Total         842 mg/kg         58.5         SW846 6020A           Sodium, Total         214 mg/kg         58.5         SW846 6020A           Trivalent Chromium         11.2 mg/kg         2.4         Calculation           Vanadium, Total         15.7 mg/kg         1.2         SW846 6020A           Zinc, Total         66.2 mg/kg         2.9         SW846 6020A           VOLATILE ORGANICS         2.9         SW846 6020A         SW846 6020A           WET CHEMISTRY         12.8 ug/kg         4.8         SW846 6020A	#
Nickel, Total         18.8 mg/kg         2.9         SW846 6020A           Potassium, Total         842 mg/kg         58.5         SW846 6020A           Sodium, Total         214 mg/kg         58.5         SW846 6020A           Trivalent Chromium         11.2 mg/kg         58.5         SW846 6020A           Vanadium, Total         15.7 mg/kg         2.4         Calculation           Zinc, Total         15.7 mg/kg         1.2         SW846 6020A           Zinc, Total         66.2 mg/kg         2.9         SW846 6020A           VOLATILE ORGANICS         SW846 6020A         SW846 6020A           Acetone         12.8 ug/kg         4.8         SW846 8260B	#
Number HoldB42 mg/kg58.5SW846 6020APotassium, Total214 mg/kg58.5SW846 6020ASodium, Total214 mg/kg2.4CalculationVanadium, Total15.7 mg/kg1.2SW846 6020AZinc, Total66.2 mg/kg2.9SW846 6020AVOLATILE ORGANICSAcetone12.8 ug/kg4.8SW846 8260BWET CHEMISTRY	#
Sodium, Total214 mg/kg58.5SW846 6020ATrivalent Chromium11.2 mg/kg2.4CalculationVanadium, Total15.7 mg/kg1.2SW846 6020AZinc, Total66.2 mg/kg2.9SW846 6020AVOLATILE ORGANICSAcetone12.8 ug/kg4.8SW846 8260BWET CHEMISTRY	#
Trivalent Chromium11.2 mg/kg2.4CalculationVanadium, Total15.7 mg/kg1.2SW846 6020AZinc, Total66.2 mg/kg2.9SW846 6020AVOLATILE ORGANICSAcetone12.8 ug/kg4.8SW846 8260BWET CHEMISTRY	#
Vanadium, Total15.7 mg/kg1.2SW846 6020AZinc, Total66.2 mg/kg2.9SW846 6020AVOLATILE ORGANICSAcetone12.8 ug/kg4.8SW846 8260BWET CHEMISTRY	#
Zinc, Total 66.2 mg/kg 2.9 SW846 6020A VOLATILE ORGANICS Acetone 12.8 ug/kg 4.8 SW846 8260B WET CHEMISTRY	#
VOLATILE ORGANICS       Acetone       12.8 ug/kg       4.8       SW846 8260B	#
Acetone 12.8 ug/kg 4.8 SW846 8260B WET CHEMISTRY	#
WET CHEMISTRY	
	#
Moisture 19.2 % 0.1 S2540G-11	
	#
Total Solids         80.8 %         0.1         S2540G-11	#



Client Sample ID Lab Sample ID	SB-12-10-12D 3282987019			Collected Lab Receipt	01/12/2023 12:30 01/13/2023 09:02
<u>Compound</u>		<u>Result</u> <u>Units</u>	<u>RDL</u>	Method	<u>Flag</u>
METALS					
Aluminum, Total		6960 mg/kg	44.3	SW846 602	0A #
Arsenic, Total		9.1 mg/kg	1.7	SW846 602	0A #
Barium, Total		120 mg/kg	2.8	SW846 602	0A #
Beryllium, Total		0.62 mg/kg	0.55	SW846 602	0A #
Calcium, Total		1710 mg/kg	55.3	SW846 602	0A #
Chromium, Total		10.8 mg/kg	1.1	SW846 602	0A #
Cobalt, Total		10.4 mg/kg	2.8	SW846 602	0A #
Copper, Total		10.4 mg/kg	2.8	SW846 602	0A #
ron, Total		23900 mg/kg	27.7	SW846 602	0A #
_ead, Total		12.0 mg/kg	1.1	SW846 602	0A #
Magnesium, Total		1220 mg/kg	55.3	SW846 602	0A #
Manganese, Total		359 mg/kg	2.8	SW846 602	0A #
Mercury, Total		0.072 mg/kg	0.054	SW846 747	1B #
Nickel, Total		15.6 mg/kg	2.8	SW846 602	0A #
Potassium, Total		790 mg/kg	55.3	SW846 602	0A #
Sodium, Total		225 mg/kg	55.3	SW846 602	0A #
Trivalent Chromium		10.8 mg/kg	2.5	Calculation	· #
/anadium, Total		14.3 mg/kg	1.1	SW846 602	0A #
Zinc, Total		53.4 mg/kg	2.8	SW846 602	OA #
VOLATILE ORGAN	NICS				
Acetone		5.7 ug/kg	5.3	SW846 826	0B #
WET CHEMISTRY					
Moisture		19.9 %	0.1	S2540G-11	#
Fotal Solids		80.1 %	0.1	S2540G-11	#



Client Sample ID Lab Sample ID	SB-10-0-2 3283084001			Collected Lab Receipt	01/13/2023 09:10 01/14/2023 08:42
Compound		Result Units	<u>RDL</u>	Method	Flag
METALS					
Aluminum, Total		7850 mg/kg	45.5	SW846 60	20A #
Antimony, Total		2.1 mg/kg	1.1	SW846 60	20A #
Arsenic, Total		17.1 mg/kg	1.7	SW846 60	20A #
Barium, Total		119 mg/kg	2.8	SW846 60	20A #
Beryllium, Total		1.1 mg/kg	0.57	SW846 60	20A #
Cadmium, Total		1.1 mg/kg	0.57	SW846 60	20A #
Calcium, Total		3250 mg/kg	56.9	SW846 60	20A #
Chromium, Total		34.7 mg/kg	1.1	SW846 60	20A #
Cobalt, Total		10.6 mg/kg	2.8	SW846 60	20A #
Copper, Total		35.9 mg/kg	2.8	SW846 60	20A #
Iron, Total		30700 mg/kg	28.4	SW846 60	20A #
Lead, Total		108 mg/kg	1.1	SW846 60	20A #
Magnesium, Total		1220 mg/kg	56.9	SW846 60	20A #
Manganese, Total		591 mg/kg	2.8	SW846 60	20A #
Mercury, Total		0.29 mg/kg	0.060	SW846 74	71B #
Nickel, Total		24.3 mg/kg	2.8	SW846 60	20A #
Potassium, Total		705 mg/kg	56.9	SW846 60	20A #
Sodium, Total		58.9 mg/kg	56.9	SW846 60	20A #
Trivalent Chromium		34.5 mg/kg	2.3	Calculatio	n #
Vanadium, Total		19.6 mg/kg	1.1	SW846 60	20A #
Zinc, Total		171 mg/kg	2.8	SW846 60	20A #
WET CHEMISTRY	,				
Moisture		17.1 %	0.1	S2540G-1	1 #
Total Solids		82.9 %	0.1	S2540G-1	1 #



Client Sample ID Lab Sample ID	SB-10-4-6 3283084002			Collected Lab Receipt		)23 09:15 )23 08:42
Compound		Result Units	RDL	Met	<u>10d</u>	<u>Flag</u>
METALS						
Aluminum, Total		11500 mg/kg	41.0	SW8	46 6020A	#
Arsenic, Total		9.9 mg/kg	1.5	SW8	46 6020A	#
Barium, Total		215 mg/kg	2.6	SW8	46 6020A	#
Beryllium, Total		0.90 mg/kg	0.51	SW8	46 6020A	#
Calcium, Total		1990 mg/kg	51.2	SW8	46 6020A	#
Chromium, Total		15.7 mg/kg	1.0	SW8	46 6020A	#
Cobalt, Total		13.0 mg/kg	2.6	SW8	46 6020A	#
Copper, Total		15.8 mg/kg	2.6	SW8	46 6020A	#
Iron, Total		30200 mg/kg	25.6	SW8	46 6020A	#
Lead, Total		15.5 mg/kg	1.0	SW8	46 6020A	#
Magnesium, Total		1890 mg/kg	51.2	SW8	46 6020A	#
Manganese, Total		1120 mg/kg	2.6	SW8	46 6020A	#
Nickel, Total		25.3 mg/kg	2.6	SW8	46 6020A	#
Potassium, Total		1300 mg/kg	51.2	SW8	46 6020A	#
Trivalent Chromium		15.7 mg/kg	2.4	Calcu	ılation	#
Vanadium, Total		21.9 mg/kg	1.0	SW8	46 6020A	#
Zinc, Total		88.1 mg/kg	2.6	SW8/	46 6020A	#
WET CHEMISTRY	,					
Moisture		17.4 %	0.1	S254	0G-11	#
Total Solids		82.6 %	0.1	S254	0G-11	#



Client Sample IDSB-09-0-2Lab Sample ID328308400	3			/13/2023 09:30 /14/2023 08:42
Compound	Result Units	RDL	Method	<u>Flag</u>
METALS				
Aluminum, Total	20900 mg/kg	43.4	SW846 6020A	#
Arsenic, Total	3.6 mg/kg	1.6	SW846 6020A	#
Barium, Total	444 mg/kg	2.7	SW846 6020A	#
Beryllium, Total	3.3 mg/kg	0.54	SW846 6020A	#
Calcium, Total	120000 mg/kg	54.2	SW846 6020A	#
Chromium, Total	13.0 mg/kg	1.1	SW846 6020A	#
Copper, Total	7.2 mg/kg	2.7	SW846 6020A	#
ron, Total	8710 mg/kg	27.1	SW846 6020A	#
.ead, Total	124 mg/kg	1.1	SW846 6020A	#
Aagnesium, Total	22000 mg/kg	54.2	SW846 6020A	#
langanese, Total	1660 mg/kg	2.7	SW846 6020A	#
lickel, Total	12.0 mg/kg	2.7	SW846 6020A	#
Potassium, Total	1660 mg/kg	54.2	SW846 6020A	#
Sodium, Total	642 mg/kg	54.2	SW846 6020A	#
rivalent Chromium	13.0 mg/kg	2.1	Calculation	#
/anadium, Total	17.0 mg/kg	1.1	SW846 6020A	#
linc, Total	49.7 mg/kg	2.7	SW846 6020A	#
<b>/OLATILE ORGANICS</b>				
Acetone	8.2 ug/kg	6.6	SW846 8260B	#
Carbon Disulfide	8.9 ug/kg	1.3	SW846 8260B	#
NET CHEMISTRY				
loisture	8.7 %	0.1	S2540G-11	#
otal Solids	91.3 %	0.1	S2540G-11	#



Client Sample ID Lab Sample ID	SB-09-4-6 3283084004			Collected Lab Receipt	01/13/2023 09:45 01/14/2023 08:42
Compound		<u>Result</u> <u>Units</u>	<u>RDL</u>	Method	<u>Flag</u>
METALS					
Aluminum, Total		9650 mg/kg	40.8	SW846 60	20A #
Antimony, Total		1.3 mg/kg	1.0	SW846 60	20A #
Arsenic, Total		9.8 mg/kg	1.5	SW846 60	20A #
Barium, Total		122 mg/kg	2.5	SW846 60	20A #
Beryllium, Total		0.78 mg/kg	0.51	SW846 60	20A #
Calcium, Total		2710 mg/kg	51.0	SW846 60	20A #
Chromium, Total		15.9 mg/kg	1.0	SW846 60	20A #
Cobalt, Total		9.7 mg/kg	2.5	SW846 60	20A #
Copper, Total		24.2 mg/kg	2.5	SW846 60	20A #
Iron, Total		32700 mg/kg	25.5	SW846 60	20A #
Lead, Total		33.5 mg/kg	1.0	SW846 60	20A #
Magnesium, Total		2000 mg/kg	51.0	SW846 60	20A #
Manganese, Total		574 mg/kg	2.5	SW846 60	20A #
Mercury, Total		0.25 mg/kg	0.048	SW846 74	71B #
Nickel, Total		19.3 mg/kg	2.5	SW846 60	20A #
Potassium, Total		1580 mg/kg	51.0	SW846 60	20A #
Sodium, Total		57.5 mg/kg	51.0	SW846 60	20A #
Trivalent Chromium		15.9 mg/kg	2.2	Calculatio	n #
Vanadium, Total		23.2 mg/kg	1.0	SW846 60	20A #
Zinc, Total		53.3 mg/kg	2.5	SW846 60	20A #
WET CHEMISTRY	,				
Moisture		10.3 %	0.1	S2540G-1	#
Total Solids		89.7 %	0.1	S2540G-11	#



Client Sample ID Lab Sample ID	SB-08-0-2 3283084005			Collected Lab Receipt	01/13/2023 10:30 01/14/2023 08:42
Compound		<u>Result</u> <u>Units</u>	<u>RDL</u>	Metho	od <u>Flag</u>
METALS					
Aluminum, Total		9780 mg/kg	39.3	SW846	6020A #
Antimony, Total		1.6 mg/kg	0.98	SW846	6020A #
Arsenic, Total		13.7 mg/kg	1.5	SW846	6020A #
Barium, Total		148 mg/kg	2.5	SW846	6020A #
Beryllium, Total		0.95 mg/kg	0.49	SW846	6020A #
Cadmium, Total		0.86 mg/kg	0.49	SW846	6020A #
Calcium, Total		4100 mg/kg	49.2	SW846	6020A #
Chromium, Total		29.9 mg/kg	0.98	SW846	6020A #
Cobalt, Total		12.0 mg/kg	2.5	SW846	6020A #
Copper, Total		38.3 mg/kg	2.5	SW846	6020A #
Iron, Total		29900 mg/kg	24.6	SW846	6020A #
Lead, Total		118 mg/kg	0.98	SW846	6020A #
Magnesium, Total		1870 mg/kg	49.2	SW846	6020A #
Manganese, Total		754 mg/kg	2.5	SW846	6020A #
Mercury, Total		0.17 mg/kg	0.050	SW846	7471B #
Nickel, Total		23.6 mg/kg	2.5	SW846	6020A #
Potassium, Total		1040 mg/kg	49.2	SW846	6020A #
Trivalent Chromium		29.6 mg/kg	2.3	Calcula	tion #
Vanadium, Total		21.7 mg/kg	0.98	SW846	6020A #
Zinc, Total		138 mg/kg	2.5	SW846	6020A #
WET CHEMISTRY	,				
Moisture		15.1 %	0.1	S2540G	9-11 #
Total Solids		84.9 %	0.1	S2540G	6-11 #



Client Sample ID Lab Sample ID	SB-08-6-8 3283084006			Collected Lab Receipt	01/13/2023 10:35 01/14/2023 08:42
Compound		Result Units	<u>RDL</u>	Method	<u>Flag</u>
METALS					
Aluminum, Total		6190 mg/kg	42.4	SW846 60	20A #
Arsenic, Total		7.8 mg/kg	1.6	SW846 60	20A #
Barium, Total		77.5 mg/kg	2.7	SW846 60	20A #
Beryllium, Total		0.54 mg/kg	0.53	SW846 60	20A #
Calcium, Total		1100 mg/kg	53.0	SW846 60	20A #
Chromium, Total		10.5 mg/kg	1.1	SW846 60	20A #
Cobalt, Total		7.9 mg/kg	2.7	SW846 60	20A #
Copper, Total		10.8 mg/kg	2.7	SW846 60	20A #
Iron, Total		24300 mg/kg	26.5	SW846 60	20A #
Lead, Total		11.2 mg/kg	1.1	SW846 60	20A #
Magnesium, Total		1310 mg/kg	53.0	SW846 60	20A #
Manganese, Total		541 mg/kg	2.7	SW846 60	20A #
Mercury, Total		1.3 mg/kg	0.053	SW846 74	71B #
Nickel, Total		14.4 mg/kg	2.7	SW846 60	20A #
Potassium, Total		674 mg/kg	53.0	SW846 60	20A #
Trivalent Chromium		10.5 mg/kg	2.3	Calculation	ו #
Vanadium, Total		15.2 mg/kg	1.1	SW846 60	20A #
Zinc, Total		50.0 mg/kg	2.7	SW846 60	20A #
WET CHEMISTRY	,				
Moisture		13.0 %	0.1	S2540G-11	#
Total Solids		87.0 %	0.1	S2540G-11	#



01/11/2023 09:25	Collected	SB-03-0-2	Client Sample ID
t 01/13/2023 09:02	Lab Receipt	3282987001	Lab Sample ID
t 01/13/20	Lab Receipt	3282987001	Lab Sample ID

## METALS

Compound	Result	Elag	Unite	PDI	Method	Dilution	Analysis Dato/Time	Bv	Cotr
Compound	11100	<u>Flag</u> 10,P1	<u>Units</u>	<u>RDL</u> 38.7	SW846 6020A		Analysis Date/Time 01/19/2023 17:39	<u>By</u> RMD	<u>Cntr</u> A1
Aluminum, Total		10,P1 ND,11,P	mg/kg			5			
Antimony, Total	ND	1	mg/kg	0.97	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Arsenic, Total	12.1	12,P1	mg/kg	1.4	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Barium, Total	132	P1	mg/kg	2.4	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Beryllium, Total	1.3	P1	mg/kg	0.48	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Cadmium, Total	ND	ND,P1	mg/kg	0.48	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Calcium, Total	36800	10,13,P 1	mg/kg	48.3	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Chromium, Total	13.8	P1	mg/kg	0.97	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Cobalt, Total	8.0	P1	mg/kg	2.4	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Copper, Total	20.3	12,P1	mg/kg	2.4	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Iron, Total	26400	10,P1	mg/kg	24.2	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Lead, Total	94.7	10,P1	mg/kg	0.97	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Magnesium, Total	4830	10,P1	mg/kg	48.3	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Manganese, Total	730	10,P1	mg/kg	2.4	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Mercury, Total	0.12	P1	mg/kg	0.049	SW846 7471B	1	01/19/2023 15:14	WDA	А
Nickel, Total	16.0	12,P1	mg/kg	2.4	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Potassium, Total	1270	10,P1	mg/kg	48.3	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.4	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	0.97	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Sodium, Total	177	15,P1	mg/kg	48.3	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.48	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Trivalent Chromium	13.8	P1	mg/kg	2.2	Calculation	1	01/24/2023 09:10	CW	А
Vanadium, Total	18.2	12,P1	mg/kg	0.97	SW846 6020A	5	01/19/2023 17:39	RMD	A1
Zinc, Total	82.3	P1	mg/kg	2.4	SW846 6020A	5	01/19/2023 17:39	RMD	A1

## **VOLATILE ORGANICS**

<u>Compound</u>	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	3.6	SW846 8260B	1	01/17/2023 16:04	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	3.6	SW846 8260B	1	01/17/2023 16:04	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	3.6	SW846 8260B	1	01/17/2023 16:04	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
2-Butanone	ND	ND,P1	ug/kg	7.2	SW846 8260B	1	01/17/2023 16:04	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	7.2	SW846 8260B	1	01/17/2023 16:04	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	7.2	SW846 8260B	1	01/17/2023 16:04	TMP	С
Acetone	21.1	P1	ug/kg	7.2	SW846 8260B	1	01/17/2023 16:04	TMP	С



**Client Sample ID** SB-03-0-2 01/11/2023 09:25 Collected Lab Sample ID 3282987001 Lab Receipt 01/13/2023 09:02

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Bromochloromethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Bromoform	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Bromomethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Carbon Disulfide	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Chlorodibromomethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Chloroethane	ND	ND,P1	ug/kg	3.6	SW846 8260B	1	01/17/2023 16:04	TMP	С
Chloroform	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Chloromethane	ND	ND,1,2, P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
cis-1,3-Dichloropropene	ND	ND,3,4, P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Freon 113	ND	ND,7,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
lsopropylbenzene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Methyl acetate	ND	ND,8,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Methyl t-Butyl Ether	ND	ND,9,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Methylene Chloride	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	2.9	SW846 8260B	1	01/17/2023 16:04	TMP	С
o-Xylene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Styrene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Tetrachloroethene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Toluene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	4.3	SW846 8260B	1	01/17/2023 16:04	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
trans-1,3-Dichloropropene	ND	ND,5,6, P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/17/2023 16:04	TMP	С

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<b>Qualifiers</b>
1,2-Dichloroethane-d4	17060-07-0	89.6%	56 - 124	01/17/2023 16:04	
4-Bromofluorobenzene	460-00-4	90.3%	51 - 128	01/17/2023 16:04	
Dibromofluoromethane	1868-53-7	67 %	62 - 123	01/17/2023 16:04	
Toluene-d8	2037-26-5	84.3%	59 - 131	01/17/2023 16:04	

# WET CHEMISTRY

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<u>Dilution</u>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
ALS is one of the world's largest a 2/3/2023 9:09 AM	ind most dive	rsified an	alytical testin	g service provid	ers. To learn more visit us at: ww	w.alsglobal.		3 of 14	41



Client Sample ID	SB-03-0-2	Collected	01/11/2023 09:25
Lab Sample ID	3282987001	Lab Receipt	01/13/2023 09:02

# WET CHEMISTRY (cont.)

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.2	SW846 7196A	1	01/19/2023 08:44	AKH	А
Moisture	7.8	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	92.2	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



Client Sample ID	SB-03-8-10	Collected	01/11/2023 09:30
Lab Sample ID	3282987002	Lab Receipt	01/13/2023 09:02

## METALS

Compound	Result	Flag	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	4320	P1	mg/kg	41.8	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Antimony, Total	ND	ND,11,P 1	mg/kg	1.0	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Arsenic, Total	11.5	P1	mg/kg	1.6	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Barium, Total	51.4	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Beryllium, Total	0.59	P1	mg/kg	0.52	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Cadmium, Total	ND	ND,P1	mg/kg	0.52	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Calcium, Total	10100	13,P1	mg/kg	52.3	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Chromium, Total	11.9	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Cobalt, Total	6.6	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Copper, Total	12.6	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Iron, Total	24800	P1	mg/kg	26.1	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Lead, Total	15.9	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Magnesium, Total	1540	P1	mg/kg	52.3	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Manganese, Total	500	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Mercury, Total	ND	ND,P1	mg/kg	0.050	SW846 7471B	1	01/19/2023 15:16	WDA	А
Nickel, Total	12.8	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Potassium, Total	447	P1	mg/kg	52.3	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.6	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Sodium, Total	ND	ND,P1	mg/kg	52.3	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.52	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Trivalent Chromium	11.9	P1	mg/kg	2.3	Calculation	1	01/24/2023 09:11	CW	А
Vanadium, Total	12.2	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 17:37	RMD	A1
Zinc, Total	55.0	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 17:37	RMD	A1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	Cntr
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	2.5	SW846 8260B	1	01/18/2023 13:36	TMP	
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	2.5	SW846 8260B	1	01/18/2023 13:36	TMP	
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	2.5	SW846 8260B	1	01/18/2023 13:36	TMP	
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
2-Butanone	ND	ND,P1	ug/kg	5.1	SW846 8260B	1	01/18/2023 13:36	TMP	
2-Hexanone	ND	ND,P1	ug/kg	5.1	SW846 8260B	1	01/18/2023 13:36	TMP	
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	5.1	SW846 8260B	1	01/18/2023 13:36	TMP	
Acetone	ND	ND,P1	ug/kg	5.1	SW846 8260B	1	01/18/2023 13:36	TMP	



Client Sample IDSB-03-8-10Lab Sample ID3282987002

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Collected Lab Receipt 01/11/2023 09:30 01/13/2023 09:02

# **VOLATILE ORGANICS (cont.)**

BensenieNDNDNDPug/kg1.0SW46 82008101/18/202 13:3.0TMPBronochicomethaneNDNDPug/kg1.0SW46 82008101/18/202 13:3.0TMPBronochicomethaneNDNDPug/kg1.0SW46 82008101/18/202 13:3.0TMPBronochicomethaneNDNDPug/kg1.0SW46 82008101/18/202 13:3.0TMPBronochicomethaneNDNDPug/kg1.0SW46 82008101/18/202 13:3.0TMPCarbon DialidéNDNDPug/kg1.0SW46 82008101/18/202 13:3.0TMPCarbon DialidéNDNDPug/kg1.0SW46 82008101/18/202 13:3.0TMPChicordemenethaneNDNDPug/kg1.0SW46 82008101/18/202 13:3.0TMPChicordenameNDNDPug/kg1.0SW46 82008101/18/202 13:3.0TMPChicordenameNDNDPug/kg1.0SW46 82008101/18/202 13:3.0TMPChicordenameNDNDPug/kg1.0SW46 82008101/18/202 13:3.0TMPChicordenameNDNDPug/kg1.0SW46 82008101/18/202 13:3.0TMPChicordenameNDNDPug/kg1.0SW46 82008101/18/202 13:3.0TMPChicordenameNDNDPug/kg1.0SW46 82008101/18/202	Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Brondchloromuthane         ND         ND, P1         ug/kg         1.0         SW846 8206B         1         01/18/2023 13.36         TMP           Bronnochm         ND	Benzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Bromolom         ND         ND/L         ug/kg         1.0         SW846 82608         1         01/18/2023 13.36         TMP           Bromomethane         ND         ND         ug/kg         1.0         SW846 82608         1         01/18/2023 13.36         TMP           Carbon Disulfide         ND         ND         ug/kg         1.0         SW846 82608         1         01/18/2023 13.36         TMP           Chlorobenzene         ND         ND         ug/kg         1.0         SW846 82608         1         01/18/2023 13.36         TMP           Chlorobenzene         ND         NDP         ug/kg         2.5         SW846 82608         1         01/18/2023 13.36         TMP           Chlorothane         ND         NDP         ug/kg         1.0         SW846 82608         1         01/18/2023 13.36         TMP           Chlorothane         ND         NDP         ug/kg         1.0         SW846 82608         1         01/18/2023 13.36         TMP           Chlorothane         ND         NDP         ug/kg         1.0         SW846 82608         1         01/18/2023 13.36         TMP           Chlorothorothane         ND         NDP         ug/kg         1.0         SW846 82608	Bromochloromethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Bromomethane         ND	Bromodichloromethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Chinomatuna         No	Bromoform	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Carbon Tetrachloride         ND         ND         ug/kg         1.0         SW846 8200B         1         01/18/2023 13.36         TMP           Chlorobenzene         ND         ND         ND         Ug/kg         1.0         SW846 8200B         1         01/18/2023 13.36         TMP           Chlorobinomomethane         ND         ND         Ug/kg         2.5         SW846 8200B         1         01/18/2023 13.36         TMP           Chlorobinomomethane         ND         ND         ND         Ug/kg         2.5         SW846 8200B         1         01/18/2023 13.36         TMP           Chlorobinomomethane         ND         ND         ND         Ug/kg         1.0         SW846 8200B         1         01/18/2023 13.36         TMP           Chlorobinomomethane         ND         ND         ND         Ug/kg         1.0         SW846 8200B         1         01/18/2023 13.36         TMP           Cyclohexane         ND         ND         ND         Ug/kg         1.0         SW846 8200B         1         01/18/2023 13.36         TMP           Septopylbenzene         ND         ND         ND         Ug/kg         1.0         SW846 8200B         1         01/18/2023 13.36         TMP <td>Bromomethane</td> <td>ND</td> <td>ND,16,P 1</td> <td>ug/kg</td> <td>1.0</td> <td>SW846 8260B</td> <td>1</td> <td>01/18/2023 13:36</td> <td>TMP</td> <td></td>	Bromomethane	ND	ND,16,P 1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Chlorobenzene         ND         NDP         ug/kg         10         SW846 82608         1         01/18/2023 13.36         TMP           Chlorodibromomethane         ND         ND         ND,PI         ug/kg         1.0         SW846 82608         1         01/18/2023 13.36         TMP           Chlorodibromomethane         ND         ND,PI         ug/kg         1.0         SW846 82608         1         01/18/2023 13.36         TMP           Chlorodim         ND         ND,PI         ug/kg         1.0         SW846 82608         1         01/18/2023 13.36         TMP           Chlorodimane         ND         ND,PI         ug/kg         1.0         SW846 82608         1         01/18/2023 13.36         TMP           Chlorodifuoromethane         ND         ND,PI         ug/kg         1.0         SW846 82608         1         01/18/2023 13.36         TMP           Cyclohexane         ND         ND,PI         ug/kg         1.0         SW846 82608         1         01/18/2023 13.36         TMP           Etrylbenzene         ND         ND,PI         ug/kg         1.0         SW846 82608         1         01/18/2023 13.36         TMP           Isopropybenzene         ND         ND,PI         <	Carbon Disulfide	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Chlorodibromomethane         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Chlorodibromomethane         ND         ND         ND,P1         ug/kg         2.5         SW846 8260B         1         01/18/2023 13.36         TMP           Chlorodibrane         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           cls-1,2-Dichloroethane         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           cls-1,2-Dichloroethane         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Cyclohexane         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Ethylbenzene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Isopopybenzene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Methyl clohexane         ND <td< td=""><td>Carbon Tetrachloride</td><td>ND</td><td>ND,P1</td><td>ug/kg</td><td>1.0</td><td>SW846 8260B</td><td>1</td><td>01/18/2023 13:36</td><td>TMP</td><td></td></td<>	Carbon Tetrachloride	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Choroethane         ND         ND         ug/kg         2.5         SW846 8260B         1         01/18/2023 13.36         TMP           Chloroeform         ND         ND         ND         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Chloroethane         ND         ND         ND         ND         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           cis-1,2-Dichloroethene         ND         ND.P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Cyclohexane         ND         ND.P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Cyclohexane         ND         ND.P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Ethylbenzene         ND         ND.P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Isoprop/benzene         ND         ND.P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Methyl cyclohexane         ND         ND.P1         ug/kg	Chlorobenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Choroform         ND         ND_P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Chloromethane         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           cls-1,2-Dichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           cls-1,3-Dichloropropene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Dichlorodifluoromethane         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Ethylbenzene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Isopropylbenzene         ND         ND,11         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Methyl acetate         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Methyl acetate         ND         ND,P1	Chlorodibromomethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Chloromethane         ND, PH         ug/kg         1.0         SW 46 8260B         1         01/18/2023 13:36         TMP           cls-1,2-Dichloropthene         ND         ND, PH         ug/kg         1.0         SW 846 8260B         1         01/18/2023 13:36         TMP           cls-1,2-Dichloropthene         ND         ND, PH         ug/kg         1.0         SW 846 8260B         1         01/18/2023 13:36         TMP           Cyclohexane         ND         ND, PH         ug/kg         1.0         SW 846 8260B         1         01/18/2023 13:36         TMP           Dichlorodiflucromethane         ND         ND, PH         ug/kg         1.0         SW 846 8260B         1         01/18/2023 13:36         TMP           Eichylbenzene         ND         ND, PH         ug/kg         1.0         SW 846 8260B         1         01/18/2023 13:36         TMP           Isopropylbenzene         ND         ND, PH         ug/kg         1.0         SW 846 8260B         1         01/18/2023 13:36         TMP           Methyl acetate         ND         ND, PH         ug/kg         1.0         SW 846 8260B         1         01/18/2023 13:36         TMP           Methyl acetate         ND         ND, PH         ug	Chloroethane	ND	ND,P1	ug/kg	2.5	SW846 8260B	1	01/18/2023 13:36	TMP	
dis-1,2-Dichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           cis-1,3-Dichloropropene         ND         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Cyclohexane         ND         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Dichlorodffluoromethane         ND         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Ethylbenzene         ND         ND         ND         1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Ethylbenzene         ND         ND         ND         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Isopropylbenzene         ND         ND         ND         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Methyl cyclohexane         ND         ND         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36<	Chloroform	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
dis-1,3-DichloropropeneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPCyclohexaneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPDichlorodifluoromethaneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPEthylbenzeneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPFreon 113NDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPIsopropylbenzeneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPMethyl acetateNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPMethyl acetateNDND,P1ug/kg1.0	Chloromethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
CyclohexaneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPDichlorodifluoromethaneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPEthylbenzeneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPFreon 113NDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPIsopropylbenzeneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPMethyl acetateNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPMethyl cyclohexaneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPMethyl cyclohexaneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPMethyl cyclohexaneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPMethyl cyclohexaneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPmp-XyleneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPo-XyleneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPo-XyleneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTotal XylenesNDND,P1ug/kg1.0SW846 8	cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Dichlorodifluoromethane         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Ethylbenzene         ND         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Freon 113         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Isopropylbenzene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Methyl acetate         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Methyl acetate         ND         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Methyl cyclohexane         ND         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP           Methyl Ebher         ND         ND         ND         ND         1         Ug/kg         1.0         SW846 8260B         1         01/18/2023 13.36         TMP	cis-1,3-Dichloropropene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
EthylbenzeneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPFreon 113NDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPIsopropylbenzeneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPMethyl acetateNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPMethyl acetateNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPMethyl cyclohexaneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPMethyl EtherNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPMethylene ChlorideNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPMethylene ChlorideNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPmp-XyleneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPStyreneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPTolueneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPTolueneNDND,P1ug/kg3.0SW846 8260B101/18/2023 13.36TMPTolueneNDND,P1ug/kg1.0SW846 8260B101/1	Cyclohexane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
FreeNDND,17.1 8,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPIsopropylbenzeneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPMethyl acetateNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPMethyl cyclohexaneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPMethyl cyclohexaneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPMethyl EtherNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPMethyl EtherNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPo-XyleneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPo-XyleneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPo-XyleneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTetrachloroetheneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTolueneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTotal XylenesNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTotal XylenesNDND,P1ug/kg1.0SW846 8260B1 </td <td>Dichlorodifluoromethane</td> <td>ND</td> <td>ND,P1</td> <td>ug/kg</td> <td>1.0</td> <td>SW846 8260B</td> <td>1</td> <td>01/18/2023 13:36</td> <td>TMP</td> <td></td>	Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Instant IndNDNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPIsopropylbenzeneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPMethyl acetateNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPMethyl cyclohexaneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPMethyl EtherNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPMethylene ChlorideNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPmp-XyleneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPo-XyleneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPStyreneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPTolueneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPTolax YlenesNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPTolaeNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPTolaeNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.36TMPTolaeNDND,P1ug/kg1.0SW846 8260B101/18/2023 13.	Ethylbenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Methyl acetateNDND,PIug/kg1.0SW846 8260B101/18/2023 13:36TMPMethyl cyclohexaneNDND,PIug/kg1.0SW846 8260B101/18/2023 13:36TMPMethyl t-Butyl EtherNDND,PIug/kg1.0SW846 8260B101/18/2023 13:36TMPMethylene ChlorideNDND,PIug/kg1.0SW846 8260B101/18/2023 13:36TMPmp-XyleneNDND,PIug/kg2.0SW846 8260B101/18/2023 13:36TMPo-XyleneNDND,PIug/kg1.0SW846 8260B101/18/2023 13:36TMPStyreneNDND,PIug/kg1.0SW846 8260B101/18/2023 13:36TMPTetrachloroetheneNDND,PIug/kg1.0SW846 8260B101/18/2023 13:36TMPTolueneNDND,PIug/kg1.0SW846 8260B101/18/2023 13:36TMPTotal XylenesNDND,PIug/kg3.0SW846 8260B101/18/2023 13:36TMPtrans-1,2-DichloroetheneNDND,PIug/kg1.0SW846 8260B101/18/2023 13:36TMPtrans-1,3-DichloropropeneNDND,PIug/kg1.0SW846 8260B101/18/2023 13:36TMPTrichloroetheneNDND,PIug/kg1.0SW846 8260B101/18/2023 13:36TMPTrichloroetheneNDND,PIug/kg1.0<	Freon 113	ND		ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Methyl cyclohexaneNDND,P1ug/kg1.0SW846 8260B10.1/18/2023 13:36TMPMethyl t-Butyl EtherNDND,P1ug/kg1.0SW846 8260B10.1/18/2023 13:36TMPMethyl e ChlorideNDND,P1ug/kg1.0SW846 8260B10.1/18/2023 13:36TMPmp-XyleneNDND,P1ug/kg2.0SW846 8260B10.1/18/2023 13:36TMPo-XyleneNDND,P1ug/kg1.0SW846 8260B10.1/18/2023 13:36TMPStyreneNDND,P1ug/kg1.0SW846 8260B10.1/18/2023 13:36TMPTetrachloroetheneNDND,P1ug/kg1.0SW846 8260B10.1/18/2023 13:36TMPTolueneNDND,P1ug/kg1.0SW846 8260B10.1/18/2023 13:36TMPTotal XylenesNDND,P1ug/kg1.0SW846 8260B10.1/18/2023 13:36TMPtrans-1,2-DichlorootheneNDND,P1ug/kg3.0SW846 8260B10.1/18/2023 13:36TMPtrans-1,3-DichlorootheneNDND,P1ug/kg1.0SW846 8260B10.1/18/2023 13:36TMPtrans-1,3-DichlorootheneNDND,P1ug/kg1.0SW846 8260B10.1/18/2023 13:36TMPTrichlorootheneNDND,P1ug/kg1.0SW846 8260B10.1/18/2023 13:36TMPtrans-1,3-DichlorootheneNDND	lsopropylbenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Methyl t-Butyl EtherNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPMethylene ChlorideNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPmp-XyleneNDND,P1ug/kg2.0SW846 8260B101/18/2023 13:36TMPo-XyleneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPo-XyleneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPStyreneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTetrachloroetheneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTolueneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTotal XylenesNDND,P1ug/kg3.0SW846 8260B101/18/2023 13:36TMPtrans-1,2-DichloroetheneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPtrans-1,3-DichloropropeneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTrichloroetheneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTrichloroetheneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTrichloroetheneNDND,P1ug/kg1.0S	Methyl acetate	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Methylene Chloride         ND         ND, P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           mp-Xylene         ND         ND, P1         ug/kg         2.0         SW846 8260B         1         01/18/2023 13:36         TMP           o-Xylene         ND         ND, P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           o-Xylene         ND         ND, P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Styrene         ND         ND, P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Tetrachloroethene         ND         ND, P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Toluene         ND         ND,P1         ug/kg         3.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,2-Dichloroethene         ND         ND,P1         ug/kg         3.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,3-Dichloropropene         ND         ND,P1         ug/kg	Methyl cyclohexane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
mp-XyleneNDND,P1ug/kg2.0SW846 8260B101/18/2023 13:36TMPo-XyleneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPStyreneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTetrachloroetheneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTolueneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTotal XylenesNDND,P1ug/kg3.0SW846 8260B101/18/2023 13:36TMPtrans-1,2-DichloroetheneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPtrans-1,3-DichloropropeneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTrichloroetheneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTrichloroetheneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTrichloroetheneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTrichloroetheneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTrichloroetheneNDND,P1ug/kg1.0SW846 8260B101/18/2023 13:36TMPTrichloroetheneNDND,P1ug/kg1.0SW	Methyl t-Butyl Ether	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
o-Xylene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Styrene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Tetrachloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Toluene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Toluene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Total Xylenes         ND         ND,P1         ug/kg         3.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,2-Dichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,3-Dichloropropene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichloroethene         ND         ND,P1         ug/kg	Methylene Chloride	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Styrene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Tetrachloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Toluene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Toluene         ND         ND,P1         ug/kg         3.0         SW846 8260B         1         01/18/2023 13:36         TMP           Total Xylenes         ND         ND,P1         ug/kg         3.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,2-Dichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,3-Dichloropropene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichloroethene         ND         ND,P1         ug/kg	mp-Xylene	ND	ND,P1	ug/kg	2.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Tetrachloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Toluene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Total Xylenes         ND         ND,P1         ug/kg         3.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,2-Dichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,2-Dichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,3-Dichloropropene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichlorofluoromethane         ND         ND,P1 </td <td>o-Xylene</td> <td>ND</td> <td>ND,P1</td> <td>ug/kg</td> <td>1.0</td> <td>SW846 8260B</td> <td>1</td> <td>01/18/2023 13:36</td> <td>TMP</td> <td></td>	o-Xylene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Toluene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Total Xylenes         ND         ND,P1         ug/kg         3.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,2-Dichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,3-Dichloropropene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,3-Dichloropropene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           trichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichlorofluoromethane         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP	Styrene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Total Xylenes         ND         ND,P1         ug/kg         3.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,2-Dichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,3-Dichloropropene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichlorofluoromethane         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP	Tetrachloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Itrans-1,2-Dichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           trans-1,3-Dichloropropene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichlorofluoromethane         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP	Toluene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
trans-1,3-Dichloropropene       ND       ND,P1       ug/kg       1.0       SW846 8260B       1       01/18/2023 13:36       TMP         Trichloroethene       ND       ND,P1       ug/kg       1.0       SW846 8260B       1       01/18/2023 13:36       TMP         Trichlorofluoromethane       ND       ND,P1       ug/kg       1.0       SW846 8260B       1       01/18/2023 13:36       TMP	Total Xylenes	ND	ND,P1	ug/kg	3.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Trichloroethene         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP           Trichlorofluoromethane         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP	trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Trichlorofluoromethane         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP	trans-1,3-Dichloropropene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
	Trichloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
Vinyl Chloride         ND         ND,P1         ug/kg         1.0         SW846 8260B         1         01/18/2023 13:36         TMP	Trichlorofluoromethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	
	Vinyl Chloride	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/18/2023 13:36	TMP	

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	92%	56 - 124	01/18/2023 13:36	
4-Bromofluorobenzene	460-00-4	85.1%	51 – 128	01/18/2023 13:36	
Dibromofluoromethane	1868-53-7	69.8 %	62 - 123	01/18/2023 13:36	
Toluene-d8	2037-26-5	84%	59 – 131	01/18/2023 13:36	

### WET CHEMISTRY

<u>Compound</u>	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
ALO: (II   II   I			1 12 1.4 12		<b>T</b> 1 1 1 1				



Client Sample ID	SB-03-8-10	Collected	01/11/2023 09:30
Lab Sample ID	3282987002	Lab Receipt	01/13/2023 09:02
	(cont)		

# WET CHEMISTRY (cont.)

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.3	SW846 7196A	1	01/19/2023 08:44	AKH	А
Moisture	11.6	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	88.4	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



Client Sample ID	SB-02-0-2	Collected	01/11/2023 10:40
Lab Sample ID	3282987003	Lab Receipt	01/13/2023 09:02

## METALS

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	Cntr
Aluminum, Total	7250	P1	mg/kg	40.3	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Antimony, Total	1.7	P1	mg/kg	1.0	SW846 6020A	5	01/20/2023 14:54	RMD	A1
Arsenic, Total	17.2	P1	mg/kg	1.5	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Barium, Total	138	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Beryllium, Total	0.79	P1	mg/kg	0.50	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Cadmium, Total	0.65	P1	mg/kg	0.50	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Calcium, Total	3960	P1	mg/kg	50.4	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Chromium, Total	17.9	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Cobalt, Total	9.5	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Copper, Total	44.0	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Iron, Total	27600	P1	mg/kg	25.2	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Lead, Total	122	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Magnesium, Total	1550	P1	mg/kg	50.4	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Manganese, Total	731	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Mercury, Total	0.12	P1	mg/kg	0.051	SW846 7471B	1	01/19/2023 15:17	WDA	А
Nickel, Total	19.2	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Potassium, Total	896	P1	mg/kg	50.4	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Selenium, Total	ND	ND,P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Sodium, Total	ND	ND,P1	mg/kg	50.4	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.50	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Trivalent Chromium	17.9	P1	mg/kg	2.4	Calculation	1	01/19/2023 20:27	CW	А
Vanadium, Total	18.1	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 17:00	RMD	A1
Zinc, Total	152	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 17:00	RMD	A1

# **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	2.8	SW846 8260B	1	01/17/2023 18:31	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	2.8	SW846 8260B	1	01/17/2023 18:31	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	2.8	SW846 8260B	1	01/17/2023 18:31	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
2-Butanone	ND	ND,P1	ug/kg	5.6	SW846 8260B	1	01/17/2023 18:31	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	5.6	SW846 8260B	1	01/17/2023 18:31	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	5.6	SW846 8260B	1	01/17/2023 18:31	TMP	С
Acetone	ND	ND,P1	ug/kg	5.6	SW846 8260B	1	01/17/2023 18:31	TMP	С
Benzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С



**Client Sample ID** SB-02-0-2 Lab Sample ID 3282987003

Lab Receipt

Collected

01/11/2023 10:40 01/13/2023 09:02

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
Bromochloromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Bromoform	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Bromomethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Carbon Disulfide	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Chlorodibromomethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Chloroethane	ND	ND,P1	ug/kg	2.8	SW846 8260B	1	01/17/2023 18:31	TMP	С
Chloroform	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Chloromethane	ND	ND,1,2, P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
cis-1,3-Dichloropropene	ND	ND,3,4, P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Freon 113	ND	ND,7,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
lsopropylbenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Methyl acetate	ND	ND,8,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Methyl t-Butyl Ether	ND	ND,9,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Methylene Chloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	2.2	SW846 8260B	1	01/17/2023 18:31	TMP	С
o-Xylene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Styrene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Tetrachloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Toluene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	3.4	SW846 8260B	1	01/17/2023 18:31	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
trans-1,3-Dichloropropene	ND	ND,5,6, P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:31	TMP	С

#### SURROGATES

<u>Compound</u>	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	91.1%	56 - 124	01/17/2023 18:31	
4-Bromofluorobenzene	460-00-4	79.3%	51 – 128	01/17/2023 18:31	
Dibromofluoromethane	1868-53-7	67.7%	62 - 123	01/17/2023 18:31	
Toluene-d8	2037-26-5	83.8%	59 - 131	01/17/2023 18:31	

### WET CHEMISTRY

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.4	SW846 7196A	1	01/19/2023 08:44	AKH	А



Results
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Client Sample ID	SB-02-0-2	Collected	01/11/2023 10:40
Lab Sample ID	3282987003	Lab Receipt	01/13/2023 09:02

# WET CHEMISTRY (cont.)

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
Moisture	15.4	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	84.6	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



Client Sample ID	SB-02-10-12	Collected	01/11/2023 10:45
Lab Sample ID	3282987004	Lab Receipt	01/13/2023 09:02
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## METALS

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	4020	P1	mg/kg	40.5	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Antimony, Total	ND	ND,11,P 1	mg/kg	1.0	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Arsenic, Total	8.1	P1	mg/kg	1.5	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Barium, Total	47.6	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Beryllium, Total	ND	ND,P1	mg/kg	0.51	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Cadmium, Total	ND	ND,P1	mg/kg	0.51	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Calcium, Total	566	13,P1	mg/kg	50.6	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Chromium, Total	7.8	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Cobalt, Total	4.1	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Copper, Total	10.6	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Iron, Total	24300	P1	mg/kg	25.3	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Lead, Total	7.9	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Magnesium, Total	971	P1	mg/kg	50.6	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Manganese, Total	569	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Mercury, Total	ND	ND,P1	mg/kg	0.046	SW846 7471B	1	01/19/2023 15:18	WDA	А
Nickel, Total	10.4	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Potassium, Total	314	P1	mg/kg	50.6	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.5	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Sodium, Total	ND	ND,P1	mg/kg	50.6	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.51	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Trivalent Chromium	7.8	P1	mg/kg	2.1	Calculation	1	01/24/2023 09:12	CW	А
Vanadium, Total	11.0	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 17:48	RMD	A1
Zinc, Total	39.9	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 17:48	RMD	A1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
1,2,3-Trichlorobenzene	ND	ND,23,P 1	ug/kg	2.7	SW846 8260B	1	01/17/2023 17:17	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/17/2023 17:17	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/17/2023 17:17	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
2-Butanone	ND	ND,P1	ug/kg	5.5	SW846 8260B	1	01/17/2023 17:17	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	5.5	SW846 8260B	1	01/17/2023 17:17	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	5.5	SW846 8260B	1	01/17/2023 17:17	TMP	С
Acetone	ND	ND,P1	ug/kg	5.5	SW846 8260B	1	01/17/2023 17:17	TMP	С



 Client Sample ID
 SB-02-10-12
 Collected
 01/11/2023 10:45

 Lab Sample ID
 3282987004
 Lab Receipt
 01/13/2023 09:02

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Bromochloromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Bromoform	ND	ND,19,P 1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Bromomethane	ND	, ND,20,P 1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Carbon Disulfide	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Chlorodibromomethane	ND	ND,21,P 1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Chloroethane	ND	' ND,P1	ug/kg	2.7	SW846 8260B	1	01/17/2023 17:17	TMP	С
Chloroform	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Chloromethane	ND	ND,1,2, P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
cis-1,3-Dichloropropene	ND	ND,3,4,2 2,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Freon 113	ND	ND,7,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Isopropylbenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Methyl acetate	ND	ND,8,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Methyl t-Butyl Ether	ND	ND,9,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Methylene Chloride	1.1	P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	2.2	SW846 8260B	1	01/17/2023 17:17	TMP	С
o-Xylene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Styrene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Tetrachloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Toluene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/17/2023 17:17	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
trans-1,3-Dichloropropene	ND	ND,5,6, P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Trichlorofluoromethane	ND	ND,24,P 1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 17:17	TMP	С

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<b>Qualifiers</b>
1,2-Dichloroethane-d4	17060-07-0	84.9%	56 - 124	01/17/2023 17:17	
4-Bromofluorobenzene	460-00-4	88.3%	51 – 128	01/17/2023 17:17	
Dibromofluoromethane	1868-53-7	65.3%	62 - 123	01/17/2023 17:17	
Toluene-d8	2037-26-5	82.5%	59 – 131	01/17/2023 17:17	

## WET CHEMISTRY



Client Sample ID Lab Sample ID	SB-02-10-12 3282987004					Collected Lab Recei	01/11/2 ipt 01/13/2		
<u>Compound</u>	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	By	Cntr
Hexavalent Chromium	ND	ND,P1	mg/kg	2.1	SW846 7196A	1	01/19/2023 08:44	AKH	А
Moisture	5.8	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	94.2	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



 Client Sample ID
 SB-04-0-2
 Collected
 01/11/2023 11:40

 Lab Sample ID
 3282987005
 Lab Receipt
 01/13/2023 09:02

## METALS

<u>Compound</u>	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	8670	P1,S1	mg/kg	43.8	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Antimony, Total	ND	ND,11,P 1,S1	mg/kg	1.1	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Arsenic, Total	10.3	P1,S1	mg/kg	1.6	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Barium, Total	153	P1,S1	mg/kg	2.7	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Beryllium, Total	0.73	P1,S1	mg/kg	0.55	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Cadmium, Total	ND	ND,P1,S 1	mg/kg	0.55	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Calcium, Total	2080	13,P1,S 1	mg/kg	54.8	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Chromium, Total	12.8	P1,S1	mg/kg	1.1	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Cobalt, Total	11.7	P1,S1	mg/kg	2.7	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Copper, Total	14.8	P1,S1	mg/kg	2.7	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Iron, Total	27300	P1,S1	mg/kg	27.4	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Lead, Total	26.9	P1,S1	mg/kg	1.1	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Magnesium, Total	1560	P1,S1	mg/kg	54.8	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Manganese, Total	784	P1,S1	mg/kg	2.7	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Mercury, Total	0.063	P1,S1	mg/kg	0.053	SW846 7471B	1	01/19/2023 15:19	WDA	А
Nickel, Total	19.5	P1,S1	mg/kg	2.7	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Potassium, Total	1150	P1,S1	mg/kg	54.8	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Selenium, Total	ND	ND,14,P 1,S1	mg/kg	2.7	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Silver, Total	ND	ND,P1,S 1	mg/kg	1.1	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Sodium, Total	ND	ND,P1,S 1	mg/kg	54.8	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Thallium, Total	ND	ND,P1,S 1	mg/kg	0.55	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Trivalent Chromium	12.8	P1,S1	mg/kg	2.2	Calculation	1	01/24/2023 09:13	CW	А
Vanadium, Total	19.3	P1,S1	mg/kg	1.1	SW846 6020A	5	01/19/2023 17:50	RMD	A1
Zinc, Total	68.5	P1,S1	mg/kg	2.7	SW846 6020A	5	01/19/2023 17:50	RMD	A1

## **VOLATILE ORGANICS**

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
1,1,2-Trichloroethane	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
1,1-Dichloroethane	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
1,1-Dichloroethene	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
1,2,3-Trichlorobenzene	ND	, ND,P1,S 1	ug/kg	2.8	SW846 8260B	1	01/18/2023 14:00	TMP	С
1,2,4-Trichlorobenzene	ND	, ND,P1,S 1	ug/kg	2.8	SW846 8260B	1	01/18/2023 14:00	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1,S 1	ug/kg	2.8	SW846 8260B	1	01/18/2023 14:00	TMP	С
1,2-Dibromoethane	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
1,2-Dichlorobenzene	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
1,2-Dichloroethane	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
1,2-Dichloropropane	ND	, ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
1,3-Dichlorobenzene	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С



Client Sample ID Lab Sample ID SB-04-0-2 3282987005 Collected 0 Lab Receipt 0

01/11/2023 11:40 01/13/2023 09:02

## **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,4-Dichlorobenzene	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
2-Butanone	ND	ND,P1,S 1	ug/kg	5.7	SW846 8260B	1	01/18/2023 14:00	TMP	С
2-Hexanone	ND	ND,P1,S 1	ug/kg	5.7	SW846 8260B	1	01/18/2023 14:00	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1,S 1	ug/kg	5.7	SW846 8260B	1	01/18/2023 14:00	TMP	С
Acetone	40.0	P1,S1	ug/kg	5.7	SW846 8260B	1	01/18/2023 14:00	TMP	С
Benzene	ND	ND,P1,S 1		1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Bromochloromethane	ND	ND,P1,S 1		1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Bromodichloromethane	ND	ND,P1,S 1		1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Bromoform	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Bromomethane	ND	ND,16,P 1,S1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Carbon Disulfide	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Carbon Tetrachloride	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Chlorobenzene	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Chlorodibromomethane	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Chloroethane	ND	ND,P1,S 1	ug/kg	2.8	SW846 8260B	1	01/18/2023 14:00	TMP	С
Chloroform	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Chloromethane	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
cis-1,3-Dichloropropene	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Cyclohexane	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Dichlorodifluoromethane	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Ethylbenzene	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Freon 113	ND	ND,17,1 8,P1,S1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
lsopropylbenzene	ND	ND,P1,S	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Methyl acetate	ND	, ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Methyl cyclohexane	1.2	P1,S1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Methyl t-Butyl Ether	ND	ND,P1,S 1	5 5	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Methylene Chloride	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
mp-Xylene	ND	ND,P1,S 1	ug/kg	2.3	SW846 8260B	1	01/18/2023 14:00	TMP	С
o-Xylene	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Styrene	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Tetrachloroethene	ND	ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Toluene	ND	, ND,P1,S 1	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Total Xylenes	ND	, ND,P1,S 1	ug/kg	3.4	SW846 8260B	1	01/18/2023 14:00	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1,S	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
trans-1,3-Dichloropropene	ND	ND,P1,S	ug/kg	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
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Client Sample ID	SB-04-0-2	Collected	01/11/2023 11:40
Lab Sample ID	3282987005	Lab Receipt	01/13/2023 09:02

# VOLATILE ORGANICS (cont.)

2037-26-5

<u>Compound</u>	<u>Result</u>	<u>Flag Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
Trichloroethene	ND	ND,P1,S ug/kg 1	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Trichlorofluoromethane	ND	ND,P1,S ug/kg 1	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
Vinyl Chloride	ND	ND,P1,S ug/kg 1	1.1	SW846 8260B	1	01/18/2023 14:00	TMP	С
SURROGATES								
<u>Compound</u>	CAS No		Recovery	Limits(%)	<u>Analysis</u>	Date/Time	<u>Qualifier</u>	rs
1,2-Dichloroethane-d4	17060-07-0		93.4%	56 - 124	01/18/2023	14:00		
4-Bromofluorobenzene	460-00-4		120%	51 - 128	01/18/2023	14:00		
Dibromofluoromethane	1868-53-7		57.6*%	62 - 123	01/18/2023	14:00		25

97.4%

## WET CHEMISTRY

Toluene-d8

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1,S 1	mg/kg	2.2	SW846 7196A	1	01/19/2023 08:44	AKH	Α
Moisture	11.1	P1,S1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	88.9	P1,S1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	

59 - 131

01/18/2023 14:00



Client Sample ID	SB-04-14-16	Collected	01/11/2023 11:45
Lab Sample ID	3282987006	Lab Receipt	01/13/2023 09:02
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## METALS

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	By	<u>Cntr</u>
Aluminum, Total	5890	P1	mg/kg	47.8	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Antimony, Total	ND	ND,11,P 1	mg/kg	1.2	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Arsenic, Total	10.6	P1	mg/kg	1.8	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Barium, Total	64.7	P1	mg/kg	3.0	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Beryllium, Total	ND	ND,P1	mg/kg	0.60	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Cadmium, Total	ND	ND,P1	mg/kg	0.60	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Calcium, Total	904	13,P1	mg/kg	59.8	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Chromium, Total	10.2	P1	mg/kg	1.2	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Cobalt, Total	9.5	P1	mg/kg	3.0	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Copper, Total	13.1	P1	mg/kg	3.0	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Iron, Total	27700	P1	mg/kg	29.9	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Lead, Total	11.8	P1	mg/kg	1.2	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Magnesium, Total	1480	P1	mg/kg	59.8	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Manganese, Total	747	P1	mg/kg	3.0	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Mercury, Total	ND	ND,P1	mg/kg	0.057	SW846 7471B	1	01/19/2023 15:20	WDA	А
Nickel, Total	15.1	P1	mg/kg	3.0	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Potassium, Total	533	P1	mg/kg	59.8	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	3.0	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	1.2	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Sodium, Total	ND	ND,P1	mg/kg	59.8	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.60	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Trivalent Chromium	10.2	P1	mg/kg	2.4	Calculation	1	01/24/2023 09:14	CW	А
Vanadium, Total	15.7	P1	mg/kg	1.2	SW846 6020A	5	01/19/2023 17:52	RMD	A1
Zinc, Total	54.9	P1	mg/kg	3.0	SW846 6020A	5	01/19/2023 17:52	RMD	A1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/17/2023 20:10	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/17/2023 20:10	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/17/2023 20:10	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
2-Butanone	ND	ND,P1	ug/kg	5.4	SW846 8260B	1	01/17/2023 20:10	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	5.4	SW846 8260B	1	01/17/2023 20:10	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	5.4	SW846 8260B	1	01/17/2023 20:10	TMP	С
Acetone	ND	ND,P1	ug/kg	5.4	SW846 8260B	1	01/17/2023 20:10	TMP	С



**Client Sample ID** SB-04-14-16 Collected 01/11/2023 11:45 Lab Sample ID 3282987006 Lab Receipt 01/13/2023 09:02

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Bromochloromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Bromoform	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Bromomethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Carbon Disulfide	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Chlorodibromomethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Chloroethane	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/17/2023 20:10	TMP	С
Chloroform	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Chloromethane	ND	ND,1,2, P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
cis-1,3-Dichloropropene	ND	ND,3,4, P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Freon 113	ND	ND,7,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Isopropylbenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Methyl acetate	ND	ND,8,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Methyl t-Butyl Ether	ND	ND,9,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Methylene Chloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	2.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
o-Xylene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Styrene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Tetrachloroethene	15.0	P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Toluene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	3.2	SW846 8260B	1	01/17/2023 20:10	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
trans-1,3-Dichloropropene	ND	ND,5,6, P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 20:10	TMP	С

#### SURROGATES

<u>Compound</u>	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	85.2%	56 - 124	01/17/2023 20:10	
4-Bromofluorobenzene	460-00-4	80.5%	51 - 128	01/17/2023 20:10	
Dibromofluoromethane	1868-53-7	66.9%	62 - 123	01/17/2023 20:10	
Toluene-d8	2037-26-5	82.7%	59 – 131	01/17/2023 20:10	

## WET CHEMISTRY

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
ALS is one of the world's largest a 2/3/2023 9:09 AM	nd most dive	rsified an	alytical testing	g service providers	s. To learn more visit us at: ww	w.alsglobal.		3 of 14	11 1



01/11/2023 11:45	Collected	SB-04-14-16	Client Sample ID
01/13/2023 09:02	Lab Receipt	3282987006	Lab Sample ID
		(cont.)	WET CHEMISTRY

#### Compound **Result** Flag <u>Units</u> RDL Method **Dilution** Analysis Date/Time <u>Вy</u> Cntr Hexavalent Chromium ND ND,P1 2.4 SW846 7196A 01/19/2023 08:44 AKH mg/kg 1 А Moisture 18.5 P1 % 0.1 S2540G-11 1 01/17/2023 14:20 NXL Total Solids 81.5 P1 % 0.1 S2540G-11 01/17/2023 14:20 NXL 1



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        Client Sample ID
        SB-05-0-2
        Collected
        01/11/2023 12:55

        Lab Sample ID
        3282987007
        Lab Receipt
        01/13/2023 09:02
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## METALS

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	9390	P1	mg/kg	44.4	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Antimony, Total	ND	ND,11,P 1	mg/kg	1.1	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Arsenic, Total	12.0	P1	mg/kg	1.7	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Barium, Total	145	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Beryllium, Total	0.73	P1	mg/kg	0.55	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Cadmium, Total	ND	ND,P1	mg/kg	0.55	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Calcium, Total	2200	13,P1	mg/kg	55.5	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Chromium, Total	14.6	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Cobalt, Total	11.6	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Copper, Total	19.7	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Iron, Total	29100	P1	mg/kg	27.7	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Lead, Total	54.8	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Magnesium, Total	1740	P1	mg/kg	55.5	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Manganese, Total	829	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Mercury, Total	0.10	P1	mg/kg	0.050	SW846 7471B	1	01/19/2023 15:21	WDA	А
Nickel, Total	19.3	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Potassium, Total	979	P1	mg/kg	55.5	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.8	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Sodium, Total	ND	ND,P1	mg/kg	55.5	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.55	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Trivalent Chromium	14.6	P1	mg/kg	2.3	Calculation	1	01/24/2023 09:15	CW	А
Vanadium, Total	20.4	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 17:54	RMD	A1
Zinc, Total	87.5	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 17:54	RMD	A1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	2.6	SW846 8260B	1	01/17/2023 19:45	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	2.6	SW846 8260B	1	01/17/2023 19:45	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	2.6	SW846 8260B	1	01/17/2023 19:45	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
2-Butanone	ND	ND,P1	ug/kg	5.2	SW846 8260B	1	01/17/2023 19:45	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	5.2	SW846 8260B	1	01/17/2023 19:45	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	5.2	SW846 8260B	1	01/17/2023 19:45	TMP	С
Acetone	ND	ND,P1	ug/kg	5.2	SW846 8260B	1	01/17/2023 19:45	TMP	С



**Client Sample ID** Lab Sample ID

SB-05-0-2 3282987007

Collected Lab Receipt

01/11/2023 12:55 01/13/2023 09:02

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Bromochloromethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Bromoform	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Bromomethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Carbon Disulfide	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Chlorodibromomethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Chloroethane	ND	ND,P1	ug/kg	2.6	SW846 8260B	1	01/17/2023 19:45	TMP	С
Chloroform	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Chloromethane	ND	ND,1,2, P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
cis-1,3-Dichloropropene	ND	ND,3,4, P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Freon 113	ND	ND,7,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Isopropylbenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Methyl acetate	ND	ND,8,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Methyl t-Butyl Ether	ND	ND,9,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Methylene Chloride	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	2.1	SW846 8260B	1	01/17/2023 19:45	TMP	С
o-Xylene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Styrene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Tetrachloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Toluene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	3.1	SW846 8260B	1	01/17/2023 19:45	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
trans-1,3-Dichloropropene	ND	ND,5,6, P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 19:45	TMP	С

#### SURROGATES

<u>Compound</u>	CAS No	<u>Recovery</u>	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	93.5%	56 - 124	01/17/2023 19:45	
4-Bromofluorobenzene	460-00-4	84.3%	51 – 128	01/17/2023 19:45	
Dibromofluoromethane	1868-53-7	70.7%	62 - 123	01/17/2023 19:45	
Toluene-d8	2037-26-5	87.1%	59 - 131	01/17/2023 19:45	

## WET CHEMISTRY

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<u>Dilution</u>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
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2/3/2023 9:09 AM							51	of 14	41



Client Sample ID	SB-05-0-2	Collected	01/11/2023 12:55
Lab Sample ID	3282987007	Lab Receipt	01/13/2023 09:02

# WET CHEMISTRY (cont.)

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.3	SW846 7196A	1	01/19/2023 08:44	AKH	A
Moisture	14.3	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	85.7	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



Client Sample ID	SB-05-4-6	Collected	01/11/2023 13:00
Lab Sample ID	3282987008	Lab Receipt	01/13/2023 09:02

## METALS

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	10200	P1	mg/kg	45.0	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Antimony, Total	ND	ND,11,P 1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Arsenic, Total	12.0	P1	mg/kg	1.7	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Barium, Total	120	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Beryllium, Total	0.76	P1	mg/kg	0.56	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Cadmium, Total	ND	ND,P1	mg/kg	0.56	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Calcium, Total	1710	13,P1	mg/kg	56.2	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Chromium, Total	13.9	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Cobalt, Total	12.7	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Copper, Total	17.0	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Iron, Total	30600	P1	mg/kg	28.1	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Lead, Total	15.7	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Magnesium, Total	2280	P1	mg/kg	56.2	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Manganese, Total	990	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Mercury, Total	ND	ND,P1	mg/kg	0.057	SW846 7471B	1	01/19/2023 15:23	WDA	А
Nickel, Total	22.3	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Potassium, Total	867	P1	mg/kg	56.2	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Sodium, Total	ND	ND,P1	mg/kg	56.2	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.56	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Trivalent Chromium	13.9	P1	mg/kg	2.4	Calculation	1	01/24/2023 09:16	CW	А
Vanadium, Total	21.4	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:07	RMD	A1
Zinc, Total	73.7	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:07	RMD	A1

## **VOLATILE ORGANICS**

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>Вy</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/17/2023 19:20	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/17/2023 19:20	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/17/2023 19:20	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
2-Butanone	ND	ND,P1	ug/kg	5.5	SW846 8260B	1	01/17/2023 19:20	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	5.5	SW846 8260B	1	01/17/2023 19:20	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	5.5	SW846 8260B	1	01/17/2023 19:20	TMP	С
Acetone	ND	ND,P1	ug/kg	5.5	SW846 8260B	1	01/17/2023 19:20	TMP	С



**Client Sample ID** Lab Sample ID

SB-05-4-6 3282987008

01/11/2023 13:00 01/13/2023 09:02

Collected

Lab Receipt

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Bromochloromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Bromoform	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Bromomethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Carbon Disulfide	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Chlorodibromomethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Chloroethane	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/17/2023 19:20	TMP	С
Chloroform	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Chloromethane	ND	ND,1,2, P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
cis-1,3-Dichloropropene	ND	ND,3,4, P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Freon 113	ND	ND,7,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
lsopropylbenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Methyl acetate	ND	ND,8,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Methyl t-Butyl Ether	ND	ND,9,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Methylene Chloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	2.2	SW846 8260B	1	01/17/2023 19:20	TMP	С
o-Xylene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Styrene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Tetrachloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Toluene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/17/2023 19:20	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
trans-1,3-Dichloropropene	ND	ND,5,6, P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 19:20	TMP	С

#### SURROGATES

<u>Compound</u>	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	89%	56 - 124	01/17/2023 19:20	
4-Bromofluorobenzene	460-00-4	84.4%	51 – 128	01/17/2023 19:20	
Dibromofluoromethane	1868-53-7	68.7%	62 - 123	01/17/2023 19:20	
Toluene-d8	2037-26-5	83.6%	59 - 131	01/17/2023 19:20	

## WET CHEMISTRY

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<u>Dilution</u>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
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Client Sample ID	SB-05-4-6	Collected	01/11/2023 13:00
Lab Sample ID	3282987008	Lab Receipt	01/13/2023 09:02

# WET CHEMISTRY (cont.)

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.4	SW846 7196A	1	01/19/2023 08:44	AKH	A
Moisture	18.1	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	81.9	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



			7
Client Sample ID	SB-06-0-2	Collected	01/11/2023 14:30
Lab Sample ID	3282987009	Lab Receipt	01/13/2023 09:02

## METALS

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	9400	P1	mg/kg	44.1	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Antimony, Total	ND	ND,11,P 1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Arsenic, Total	10.9	P1	mg/kg	1.7	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Barium, Total	232	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Beryllium, Total	0.78	P1	mg/kg	0.55	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Cadmium, Total	ND	ND,P1	mg/kg	0.55	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Calcium, Total	1760	13,P1	mg/kg	55.1	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Chromium, Total	13.7	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Cobalt, Total	11.7	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Copper, Total	18.3	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Iron, Total	27200	P1	mg/kg	27.5	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Lead, Total	35.0	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Magnesium, Total	1630	P1	mg/kg	55.1	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Manganese, Total	1090	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Mercury, Total	ND	ND,P1	mg/kg	0.053	SW846 7471B	1	01/19/2023 15:24	WDA	А
Nickel, Total	21.8	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Potassium, Total	1210	P1	mg/kg	55.1	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Sodium, Total	ND	ND,P1	mg/kg	55.1	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.55	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Trivalent Chromium	13.6	P1	mg/kg	2.4	Calculation	1	01/24/2023 09:17	CW	А
Vanadium, Total	18.9	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:09	RMD	A1
Zinc, Total	88.5	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:09	RMD	A1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	2.5	SW846 8260B	1	01/17/2023 20:34	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	2.5	SW846 8260B	1	01/17/2023 20:34	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	2.5	SW846 8260B	1	01/17/2023 20:34	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
2-Butanone	ND	ND,P1	ug/kg	5.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	5.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	5.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Acetone	ND	ND,P1	ug/kg	5.0	SW846 8260B	1	01/17/2023 20:34	TMP	С



**Client Sample ID** Lab Sample ID

SB-06-0-2 3282987009

01/11/2023 14:30 01/13/2023 09:02

Collected

Lab Receipt

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Bromochloromethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Bromoform	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Bromomethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Carbon Disulfide	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Chlorodibromomethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Chloroethane	ND	ND,P1	ug/kg	2.5	SW846 8260B	1	01/17/2023 20:34	TMP	С
Chloroform	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Chloromethane	ND	ND,1,2, P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
cis-1,3-Dichloropropene	ND	ND,3,4, P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Freon 113	ND	ND,7,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
lsopropylbenzene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Methyl acetate	ND	ND,8,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Methyl t-Butyl Ether	ND	ND,9,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Methylene Chloride	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	2.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
o-Xylene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Styrene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Tetrachloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Toluene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	3.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
trans-1,3-Dichloropropene	ND	ND,5,6, P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	1.0	SW846 8260B	1	01/17/2023 20:34	TMP	С

#### SURROGATES

<u>Compound</u>	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	89%	56 - 124	01/17/2023 20:34	
4-Bromofluorobenzene	460-00-4	81.9 %	51 – 128	01/17/2023 20:34	
Dibromofluoromethane	1868-53-7	67.9%	62 - 123	01/17/2023 20:34	
Toluene-d8	2037-26-5	81.9%	59 - 131	01/17/2023 20:34	

## WET CHEMISTRY

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
ALS is one of the world's larg	est and most dive	rsified an	alytical tes	sting service pro	viders. To learn more visit us at: ww	w.alsglobal.	com		
2/3/2023 9:09 AM							57	' of 14	11



Client Sample ID	SB-06-0-2	Collected	01/11/2023 14:30
Lab Sample ID	3282987009	Lab Receipt	01/13/2023 09:02

# WET CHEMISTRY (cont.)

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.4	SW846 7196A	1	01/19/2023 08:44	AKH	А
Moisture	15.5	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	84.5	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



Client Sample ID	SB-06-8-10	Collected	01/11/2023 14:35
Lab Sample ID	3282987010	Lab Receipt	01/13/2023 09:02
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## METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	7560	P1	mg/kg	40.4	SW846 6020A	5	01/19/2023 18:11	RMD	<u>A1</u>
Antimony, Total	ND	ND,11,P 1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Arsenic, Total	11.8	P1	mg/kg	1.5	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Barium, Total	92.1	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Beryllium, Total	0.74	P1	mg/kg	0.50	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Cadmium, Total	ND	ND,P1	mg/kg	0.50	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Calcium, Total	1220	13,P1	mg/kg	50.5	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Chromium, Total	12.5	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Cobalt, Total	9.8	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Copper, Total	15.5	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Iron, Total	29400	P1	mg/kg	25.2	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Lead, Total	13.3	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Magnesium, Total	1540	P1	mg/kg	50.5	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Manganese, Total	674	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Mercury, Total	ND	ND,P1	mg/kg	0.056	SW846 7471B	1	01/19/2023 15:27	WDA	А
Nickel, Total	18.2	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Potassium, Total	652	P1	mg/kg	50.5	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Sodium, Total	ND	ND,P1	mg/kg	50.5	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.50	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Trivalent Chromium	12.5	P1	mg/kg	2.3	Calculation	1	01/24/2023 09:18	CW	А
Vanadium, Total	17.6	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:11	RMD	A1
Zinc, Total	63.8	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:11	RMD	A1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	2.2	SW846 8260B	1	01/17/2023 21:24	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	2.2	SW846 8260B	1	01/17/2023 21:24	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	2.2	SW846 8260B	1	01/17/2023 21:24	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
2-Butanone	ND	ND,P1	ug/kg	4.5	SW846 8260B	1	01/17/2023 21:24	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	4.5	SW846 8260B	1	01/17/2023 21:24	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	4.5	SW846 8260B	1	01/17/2023 21:24	TMP	С
Acetone	ND	ND,P1	ug/kg	4.5	SW846 8260B	1	01/17/2023 21:24	TMP	С



01/11/2023 14:35

01/13/2023 09:02

Collected

Lab Receipt

Results

**Client Sample ID** SB-06-8-10 Lab Sample ID 3282987010

**VOLATILE ORGANICS (cont.)** 

<u>Compound</u>	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Bromochloromethane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Bromoform	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Bromomethane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Carbon Disulfide	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Chlorodibromomethane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Chloroethane	ND	ND,P1	ug/kg	2.2	SW846 8260B	1	01/17/2023 21:24	TMP	С
Chloroform	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Chloromethane	ND	ND,1,2, P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
cis-1,3-Dichloropropene	ND	ND,3,4, P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Freon 113	ND	ND,7,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Isopropylbenzene	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Methyl acetate	ND	ND,8,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Methyl t-Butyl Ether	ND	ND,9,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Methylene Chloride	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	1.8	SW846 8260B	1	01/17/2023 21:24	TMP	С
o-Xylene	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Styrene	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Tetrachloroethene	4.1	P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Toluene	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/17/2023 21:24	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
trans-1,3-Dichloropropene	ND	ND,5,6, P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Trichlorofluoromethane	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	0.90	SW846 8260B	1	01/17/2023 21:24	TMP	С

#### SURROGATES

Compound	CAS No	<u>Recovery</u>	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	91%	56 - 124	01/17/2023 21:24	
4-Bromofluorobenzene	460-00-4	82.3%	51 – 128	01/17/2023 21:24	
Dibromofluoromethane	1868-53-7	68.8%	62 - 123	01/17/2023 21:24	
Toluene-d8	2037-26-5	83.4%	59 - 131	01/17/2023 21:24	

## WET CHEMISTRY

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
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Client Sample ID	SB-06-8-10	Collected	01/11/2023 14:35
Lab Sample ID	3282987010	Lab Receipt	01/13/2023 09:02

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.3	SW846 7196A	1	01/19/2023 08:44	AKH	А
Moisture	16.5	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	83.5	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



Client Sample ID	SB-07-0-2	Collected	01/11/2023 15:25
Lab Sample ID	3282987011	Lab Receipt	01/13/2023 09:02
	3202907011		01/13/202

## METALS

Compound	Result	Flag	<u>Units</u>	<u>RDL</u>	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	8020	P1,S2	mg/kg	45.7	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Antimony, Total	1.7	P1,S2	mg/kg	1.1	SW846 6020A	5	01/20/2023 14:56	RMD	A1
Arsenic, Total	11.8	P1,S2	mg/kg	1.7	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Barium, Total	113	P1,S2	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Beryllium, Total	0.92	P1,S2	mg/kg	0.57	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Cadmium, Total	ND	ND,P1,S 2	mg/kg	0.57	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Calcium, Total	21700	- 13,P1,S 2	mg/kg	57.1	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Chromium, Total	9.9	P1,S2	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Cobalt, Total	6.9	P1,S2	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Copper, Total	25.9	P1,S2	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Iron, Total	21400	P1,S2	mg/kg	28.5	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Lead, Total	157	P1,S2	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Magnesium, Total	3150	P1,S2	mg/kg	57.1	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Manganese, Total	718	P1,S2	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Mercury, Total	0.083	P1,S2	mg/kg	0.062	SW846 7471B	1	01/19/2023 15:31	WDA	А
Nickel, Total	14.8	P1,S2	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Potassium, Total	889	P1,S2	mg/kg	57.1	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Selenium, Total	ND	ND,14,P 1,S2	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Silver, Total	ND	ND,P1,S 2	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Sodium, Total	107	P1,S2	mg/kg	57.1	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Thallium, Total	ND	ND,P1,S 2	mg/kg	0.57	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Trivalent Chromium	9.9	P1,S2	mg/kg	2.4	Calculation	1	01/19/2023 20:29	CW	А
Vanadium, Total	15.4	P1,S2	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:13	RMD	A1
Zinc, Total	71.2	P1,S2	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:13	RMD	A1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1,S 2	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
1,1,2-Trichloroethane	ND		ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
1,1-Dichloroethane	ND		ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
1,1-Dichloroethene	ND	- ND,P1,S 2	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1,S	ug/kg	2.9	SW846 8260B	1	01/17/2023 18:56	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1,S	ug/kg	2.9	SW846 8260B	1	01/17/2023 18:56	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1,S	ug/kg	2.9	SW846 8260B	1	01/17/2023 18:56	TMP	С
1,2-Dibromoethane	ND	ND,P1,S	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
1,2-Dichlorobenzene	ND	ND,P1,S	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
1,2-Dichloroethane	ND	ND,P1,S	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
1,2-Dichloropropane	ND	ND,P1,S	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
1,3-Dichlorobenzene	ND	2 ND,P1,S 2	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С



 Client Sample ID
 SB-07-0-2
 Collected
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 Lab Sample ID
 3282987011
 Lab Receipt
 01/13/2023 09:02

## **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	Flag Units	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,4-Dichlorobenzene	ND	ND,P1,S ug/kg 2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
2-Butanone	ND	ND,P1,S ug/kg 2	5.7	SW846 8260B	1	01/17/2023 18:56	TMP	С
2-Hexanone	ND	ND,P1,S ug/kg 2	5.7	SW846 8260B	1	01/17/2023 18:56	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1,S ug/kg 2	5.7	SW846 8260B	1	01/17/2023 18:56	TMP	С
Acetone	11.2	P1,S2 ug/kg	5.7	SW846 8260B	1	01/17/2023 18:56	TMP	С
Benzene	ND	ND,P1,S ug/kg 2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Bromochloromethane	ND	ND,P1,S ug/kg 2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Bromodichloromethane	ND	ND,P1,S ug/kg 2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Bromoform	ND	ND,P1,S ug/kg 2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Bromomethane	ND	ND,P1,S ug/kg 2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Carbon Disulfide	ND	ND,P1,S ug/kg 2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Carbon Tetrachloride	ND	ND,P1,S ug/kg 2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Chlorobenzene	ND	ND,P1,S ug/kg 2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Chlorodibromomethane	ND	ND,P1,S ug/kg 2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Chloroethane	ND	ND,P1,S ug/kg 2	2.9	SW846 8260B	1	01/17/2023 18:56	TMP	С
Chloroform	ND	ND,P1,S ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Chloromethane	ND	ND,1,2, ug/kg P1,S2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1,S ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
cis-1,3-Dichloropropene	ND	ND,3,4, ug/kg P1,S2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Cyclohexane	ND	ND,P1,S ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Dichlorodifluoromethane	ND	ND,P1,S ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Ethylbenzene	ND	ND,P1,S ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Freon 113	ND	ND,7,P1 ug/kg ,S2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Isopropylbenzene	ND	ND,P1,S ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Methyl acetate	ND	ND,8,P1 ug/kg ,S2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Methyl cyclohexane	ND	,52 ND,P1,S ug/kg 2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Methyl t-Butyl Ether	ND	ND,9,P1 ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Methylene Chloride	ND	,S2 ND,P1,S ug/kg 2	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
mp-Xylene	ND	ND,P1,S ug/kg	2.3	SW846 8260B	1	01/17/2023 18:56	TMP	С
o-Xylene	ND	2 ND,P1,S ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Styrene	ND	2 ND,P1,S ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Tetrachloroethene	ND	2 ND,P1,S ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Toluene	ND	2 ND,P1,S ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
Total Xylenes	ND	2 ND,P1,S ug/kg	3.4	SW846 8260B	1	01/17/2023 18:56	TMP	С
trans-1,2-Dichloroethene	ND	2 ND,P1,S ug/kg	1.1	SW846 8260B	1	01/17/2023 18:56	TMP	С
trans-1,3-Dichloropropene	ND	2 ND,5,6, ug/kg		SW846 8260B	1	01/17/2023 18:56		С
		P1,S2						



Client Sample ID	SB-07-0-2	Collected	01/11/2023 15:25
Lab Sample ID	3282987011	Lab Receipt	01/13/2023 09:02

# VOLATILE ORGANICS (cont.)

2037-26-5

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Meth	od	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Trichloroethene	ND	ND,P1,S 2	ug/kg	1.1	SW84	46 8260B	1	01/17/2023 18:56	TMP	С
Trichlorofluoromethane	ND	ND,P1,S 2	ug/kg	1.1	SW84	46 8260B	1	01/17/2023 18:56	TMP	С
Vinyl Chloride	ND	ND,P1,S 2	ug/kg	1.1	SW84	46 8260B	1	01/17/2023 18:56	TMP	С
SURROGATES										
<u>Compound</u>	CAS No			Recovery	Limits	s <u>(%)</u>	<u>Analysis E</u>	Date/Time	<u>Qualifier</u>	S
1,2-Dichloroethane-d4	17060-07-0			87.6%	56 - 1	124	01/17/2023 1	8:56		
4-Bromofluorobenzene	460-00-4			91.9 %	51 - 1	128	01/17/2023 1	8:56		
Dibromofluoromethane	1868-53-7			68%	62 - 1	123	01/17/2023 1	8:56		

88.2%

## WET CHEMISTRY

Toluene-d8

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1,S 2	mg/kg	2.4	SW846 7196A	1	01/19/2023 08:44	AKH	А
Moisture	20.1	P1,S2	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	79.9	P1,S2	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	

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01/17/2023 18:56



Client Sample ID	SB-07-2-4	Collected	01/11/2023 15:30
Lab Sample ID	3282987012	Lab Receipt	01/13/2023 09:02

## METALS

Antimony, Total         ND	Compound	Result	Flag	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	By	<u>Cntr</u>
Ansmit1.51.51.7SW646 6020A50.1102/02181:5RMDA1Arsenic, Total143P1.53mg/kg2.9SW646 6020A50.1119/2023 18:15RMDA1Barium, Total1.5P1.53mg/kg0.57SW646 6020A50.1119/2023 18:15RMDA1Cadrium, TotalND $^{3}$ P1.Smg/kg0.57SW646 6020A50.1119/2023 18:15RMDA1Cadrium, TotalND $^{3}$ P1.Smg/kg57.0SW646 6020A50.1119/2023 18:15RMDA1Cadronum, Total10.6P1.83mg/kg2.9SW646 6020A50.1119/2023 18:15RMDA1Cobalt, Total6.4P1.83mg/kg2.9SW646 6020A50.1119/2023 18:15RMDA1Cobalt, Total24.8P1.83mg/kg2.9SW646 6020A50.1119/2023 18:15RMDA1Cobalt, Total84.7P1.83mg/kg1.1SW646 6020A50.1119/2023 18:15RMDA1Magnesium, Total81.7P1.83mg/kg2.9SW646 6020A50.1119/2023 18:15RMDA1Magnesium, Total1210P1.83mg/kg2.9SW646 6020A50.1119/2023 18:15RMDA1Magnesium, Total1210P1.83mg/kg2.9SW646 6020A50.1119/2023 18:15RMDA1Magnesium, Total1210P1.83mg/kg2.9SW	Aluminum, Total	11100	P1,S3	mg/kg	45.6	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Barium, Total         143         P1.S3         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Beryllium, Total         1.5         P1.S3         mg/kg         0.57         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Cadmium, Total         ND         ND <td>Antimony, Total</td> <td>ND</td> <td></td> <td>mg/kg</td> <td>1.1</td> <td>SW846 6020A</td> <td>5</td> <td>01/19/2023 18:15</td> <td>RMD</td> <td>A1</td>	Antimony, Total	ND		mg/kg	1.1	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Beryllium, Total1.5P1.83mg/kg0.57SW846 6020A501/19/2023 18:15RMDA1Cadmium, TotalND $^{13,P1.S}_{3}$ mg/kg0.57SW846 6020A501/19/2023 18:15RMDA1Calcium, Total40600 $^{13,P1.S}_{3}$ mg/kg57.0SW846 6020A501/19/2023 18:15RMDA1Calcium, Total10.6P1.83mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Cobalt, Total6.4P1.83mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Copper, Total24.8P1.83mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1con, Total20100P1.83mg/kg1.1SW846 6020A501/19/2023 18:15RMDA1Magnesium, Total84.7P1.83mg/kg57.0SW846 6020A501/19/2023 18:15RMDA1Magnese, Total1210P1.83mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Magnese, Total1210P1.83mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Mercury, Total0.13P1.83mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Soleinum, Total1210P1.83mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Soleinum, Total1210P1.83 <td< td=""><td>Arsenic, Total</td><td>10.9</td><td>P1,S3</td><td>mg/kg</td><td>1.7</td><td>SW846 6020A</td><td>5</td><td>01/19/2023 18:15</td><td>RMD</td><td>A1</td></td<>	Arsenic, Total	10.9	P1,S3	mg/kg	1.7	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Cadmium, Total         ND         ND,P1.S         mg/kg         0.57         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Cadmium, Total         40600         13,P1.S         mg/kg         57.0         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Calcium, Total         10.6         P1.ss         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Cobalt, Total         6.4         P1.ss         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Copper, Total         24.8         P1.ss         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Iron, Total         20100         P1.ss         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Magnesum, Total         84.7         P1.ss         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Magnesum, Total         1210         P1.ss         mg/kg         2.9         SW846 6020A         5         01/19/2023	Barium, Total	143	P1,S3	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Calculum, Total         NB         State         Construction         <	Beryllium, Total	1.5	P1,S3	mg/kg	0.57	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Chromium, Total         10.6         P1.S3         mg/kg         1.1         SW846 6020A         5         0.1/19/2023 18:15         RMD         A1           Cobalt, Total         6.4         P1.S3         mg/kg         2.9         SW846 6020A         5         0.1/19/2023 18:15         RMD         A1           Copper, Total         24.8         P1.S3         mg/kg         2.9         SW846 6020A         5         0.1/19/2023 18:15         RMD         A1           Lead, Total         20100         P1.s3         mg/kg         2.8.5         SW846 6020A         5         0.1/19/2023 18:15         RMD         A1           Lead, Total         84.7         P1.s3         mg/kg         1.1         SW846 6020A         5         0.1/19/2023 18:15         RMD         A1           Magnesium, Total         84.7         P1.s3         mg/kg         2.9         SW846 6020A         5         0.1/19/2023 18:15         RMD         A1           Magnesium, Total         0.13         P1.s3         mg/kg         2.9         SW846 6020A         5         0.1/19/2023 18:15         RMD         A1           Vickel, Total         0.13         P1.s3         mg/kg         2.9         SW846 6020A         5         0.1/19/2	Cadmium, Total	ND		mg/kg	0.57	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Cobalt, Total6.4P1,S3mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Copper, Total24.8P1,S3mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Iron, Total20100P1,S3mg/kg28.5SW846 6020A501/19/2023 18:15RMDA1Lead, Total84.7P1,S3mg/kg1.1SW846 6020A501/19/2023 18:15RMDA1Magnesium, Total5860P1,S3mg/kg57.0SW846 6020A501/19/2023 18:15RMDA1Magnese, Total1210P1,S3mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Mercury, Total0.13P1,S3mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Nickel, Total14.3P1,S3mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Potassium, Total1120P1,S3mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Selenium, TotalNDND,P1,Smg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Sodium, TotalNDND,P1,Smg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Sodium, TotalNDND,P1,Smg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Thalium, TotalNDND,P1,Smg/kg0.57S	Calcium, Total	40600		mg/kg	57.0	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Copper, Total24.8P1.83mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Iron, Total20100P1.83mg/kg28.5SW846 6020A501/19/2023 18:15RMDA1Lead, Total84.7P1.83mg/kg1.1SW846 6020A501/19/2023 18:15RMDA1Magnesium, Total5860P1.83mg/kg57.0SW846 6020A501/19/2023 18:15RMDA1Magnese, Total1210P1.83mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Mercury, Total0.13P1.83mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Nickel, Total14.3P1.83mg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Potassium, Total1120P1.83mg/kg57.0SW846 6020A501/19/2023 18:15RMDA1Selenium, TotalNDND.14.Pmg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Solurn, TotalNDND.14.Pmg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Solurn, TotalNDND.14.Pmg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Solurn, TotalNDND.14.Pmg/kg2.9SW846 6020A501/19/2023 18:15RMDA1Thalium, TotalNDND.8mg/kg0.57SW	Chromium, Total	10.6	P1,S3	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:15	RMD	A1
International         Internat	Cobalt, Total	6.4	P1,S3	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Lead, Total       84.7       P1,S3       mg/kg       1.1       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Magnesium, Total       5860       P1,S3       mg/kg       57.0       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Manganese, Total       1210       P1,S3       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Mercury, Total       0.13       P1,S3       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Mercury, Total       0.13       P1,S3       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Nickel, Total       14.3       P1,S3       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Potassium, Total       1120       P1,S3       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Selenium, Total       ND       ND,14,P       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Sodium, Total       ND       ND,P1,S       <	Copper, Total	24.8	P1,S3	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Magnesium, Total         5860         P1,S3         mg/kg         57.0         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Manganese, Total         1210         P1,S3         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Mercury, Total         0.13         P1,S3         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Mercury, Total         0.13         P1,S3         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Nickel, Total         14.3         P1,S3         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Potassium, Total         1120         P1,S3         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Selenium, Total         ND         ND,14,P         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Silver, Total         ND         ND,P1,S         mg/kg         2.9         SW846 6020A         5         01/19/2	Iron, Total	20100	P1,S3	mg/kg	28.5	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Wanganese, Total       1210       P1,S3       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Mercury, Total       0.13       P1,S3       mg/kg       0.062       SW846 6020A       5       01/19/2023 15:32       WDA       A         Nickel, Total       14.3       P1,S3       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Potassium, Total       1120       P1,S3       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Potassium, Total       1120       P1,S3       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Selenium, Total       ND       ND_14/P       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Silver, Total       ND       ND_14/P       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Sodium, Total       ND       ND_15/N       mg/kg       1.1       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Thallium, Total       ND       ND_1/N	Lead, Total	84.7	P1,S3	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Mercury, Total         0.13         P1,S3         mg/kg         0.062         SW846 7471B         1         01/19/2023 15:32         WDA         A           Nickel, Total         14.3         P1,S3         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Potassium, Total         1120         P1,S3         mg/kg         57.0         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Potassium, Total         ND         ND,14,P         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Selenium, Total         ND         ND,14,P         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Selenium, Total         ND         ND,71,S         mg/kg         1.1         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Sodium, Total         150         P1,S3         mg/kg         57.0         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Thallium, Total         ND         ND,81,S         mg/kg         0.57         SW846 6020A         5         01/19	Magnesium, Total	5860	P1,S3	mg/kg	57.0	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Nickel, Total       14.3       P1,S3       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Potassium, Total       1120       P1,S3       mg/kg       57.0       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Selenium, Total       ND       ND,14,P       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Selenium, Total       ND       ND,14,P       mg/kg       2.9       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Solure, Total       ND       ND,P1,S       mg/kg       1.1       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Sodium, Total       150       P1,S3       mg/kg       57.0       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Thallium, Total       ND       ND,P1,S       mg/kg       0.57       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Trivalent Chromium       10.6       P1,S3       mg/kg       2.5       Calculation       1       01/24/2023 09:19       CW       A         Vanadium, Total       15.6       P1,S3	Manganese, Total	1210	P1,S3	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Potassium, Total         1120         P1,S3         mg/kg         57.0         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Selenium, Total         ND         ND,14.P         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Selenium, Total         ND         ND,P1.S         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Silver, Total         ND         ND,P1.S         mg/kg         57.0         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Sodium, Total         150         P1,S3         mg/kg         57.0         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Thallium, Total         150         P1,S3         mg/kg         0.57         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Trivalent Chromium         10.6         P1,S3         mg/kg         2.5         Calculation         1         01/24/2023 09:19         CW         A           Vanadium, Total         15.6         P1,S3         mg/kg         1.1         SW846 6020A         5         01/19	Mercury, Total	0.13	P1,S3	mg/kg	0.062	SW846 7471B	1	01/19/2023 15:32	WDA	А
Selenium, Total         ND         ND,14,P 1,S3         mg/kg         2.9         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Silver, Total         ND         ND,P1,S         mg/kg         1.1         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Sodium, Total         150         P1,S3         mg/kg         57.0         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Thallium, Total         ND         ND,P1,S         mg/kg         0.57         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Trivalent Chromium         10.6         P1,S3         mg/kg         2.5         Calculation         1         01/24/2023 09:19         CW         A           Vanadium, Total         15.6         P1,S3         mg/kg         1.1         SW846 6020A         5         01/19/2023 18:15         RMD         A1	Nickel, Total	14.3	P1,S3	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Solution, rotal       ND       ND,P1,S       mg/kg       1.1       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Solution, Total       ND       ND,P1,S       mg/kg       57.0       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Thallium, Total       ND       ND,P1,S       mg/kg       0.57       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Trivalent Chromium       10.6       P1,S3       mg/kg       2.5       Calculation       1       01/24/2023 09:19       CW       A         Vanadium, Total       15.6       P1,S3       mg/kg       1.1       SW846 6020A       5       01/19/2023 18:15       RMD       A1	Potassium, Total	1120	P1,S3	mg/kg	57.0	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Silver, Total       ND       ND,P1,S       mg/kg       1.1       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Sodium, Total       150       P1,S3       mg/kg       57.0       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Thallium, Total       ND       ND,P1,S       mg/kg       0.57       SW846 6020A       5       01/19/2023 18:15       RMD       A1         Trivalent Chromium       10.6       P1,S3       mg/kg       2.5       Calculation       1       01/24/2023 09:19       CW       A         Vanadium, Total       15.6       P1,S3       mg/kg       1.1       SW846 6020A       5       01/19/2023 18:15       RMD       A1	Selenium, Total	ND		mg/kg	2.9	SW846 6020A	5	01/19/2023 18:15	RMD	A1
ND         ND,P1,S 3         mg/kg mg/kg         0.57         SW846 6020A         5         01/19/2023 18:15         RMD         A1           Trivalent Chromium         10.6         P1,S3         mg/kg         2.5         Calculation         1         01/24/2023 09:19         CW         A           Vanadium, Total         15.6         P1,S3         mg/kg         1.1         SW846 6020A         5         01/19/2023 18:15         RMD         A1	Silver, Total	ND	ND,P1,S	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:15	RMD	A1
3         3         3         6         7 <th7< th=""> <th7< th=""> <th7< th=""> <th7< th=""></th7<></th7<></th7<></th7<>	Sodium, Total	150	P1,S3	mg/kg	57.0	SW846 6020A	5	01/19/2023 18:15	RMD	A1
Vanadium, Total 15.6 P1,S3 mg/kg 1.1 SW846 6020A 5 01/19/2023 18:15 RMD A1	Thallium, Total	ND		mg/kg	0.57	SW846 6020A	5	01/19/2023 18:15	RMD	A1
	Trivalent Chromium	10.6	P1,S3	mg/kg	2.5	Calculation	1	01/24/2023 09:19	CW	А
Zinc, Total 63.0 P1,S3 mg/kg 2.9 SW846 6020A 5 01/19/2023 18:15 RMD A1	Vanadium, Total	15.6	P1,S3	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:15	RMD	A1
	Zinc, Total	63.0	P1,S3	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:15	RMD	A1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	M	lethod	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1,S 3	ug/kg	1.5	S	W846 8260B	1	01/17/2023 16:53	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1,S 3	ug/kg	1.5	S	W846 8260B	1	01/17/2023 16:53	TMP	С
1,1,2-Trichloroethane	ND	ND,P1,S 3	ug/kg	1.5	S	W846 8260B	1	01/17/2023 16:53	TMP	С
1,1-Dichloroethane	ND	ND,P1,S 3	ug/kg	1.5	S	W846 8260B	1	01/17/2023 16:53	TMP	С
1,1-Dichloroethene	ND	ND,P1,S 3	ug/kg	1.5	S	W846 8260B	1	01/17/2023 16:53	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1,S 3	ug/kg	3.7	S	W846 8260B	1	01/17/2023 16:53	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1,S 3	ug/kg	3.7	s	W846 8260B	1	01/17/2023 16:53	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1,S 3	ug/kg	3.7	S	W846 8260B	1	01/17/2023 16:53	TMP	С
1,2-Dibromoethane	ND	ND,P1,S 3	ug/kg	1.5	s	W846 8260B	1	01/17/2023 16:53	TMP	С
1,2-Dichlorobenzene	ND	ND,P1,S 3	ug/kg	1.5	s	W846 8260B	1	01/17/2023 16:53	TMP	С
1,2-Dichloroethane	ND	ND,P1,S	ug/kg	1.5	S	W846 8260B	1	01/17/2023 16:53	TMP	С
1,2-Dichloropropane	ND	ND,P1,S 3	ug/kg	1.5	S	W846 8260B	1	01/17/2023 16:53	TMP	С
1,3-Dichlorobenzene	ND	0 ND,P1,S 3	ug/kg	1.5	S	W846 8260B	1	01/17/2023 16:53	TMP	С



 Client Sample ID
 SB-07-2-4
 Collected
 01/11/2023 15:30

 Lab Sample ID
 3282987012
 Lab Receipt
 01/13/2023 09:02

## **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	Flag Units	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,4-Dichlorobenzene	ND	ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
2-Butanone	ND	ND,P1,S ug/kg 3	7.4	SW846 8260B	1	01/17/2023 16:53	TMP	С
2-Hexanone	ND	ND,P1,S ug/kg 3	7.4	SW846 8260B	1	01/17/2023 16:53	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1,S ug/kg 3	7.4	SW846 8260B	1	01/17/2023 16:53	TMP	С
Acetone	10.4	P1,S3 ug/kg	7.4	SW846 8260B	1	01/17/2023 16:53	TMP	С
Benzene	ND	ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Bromochloromethane	ND	ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Bromodichloromethane	ND	ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Bromoform	ND	ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Bromomethane	ND	ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Carbon Disulfide	ND	ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Carbon Tetrachloride	ND	ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Chlorobenzene	ND	ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Chlorodibromomethane	ND	ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Chloroethane	ND	ND,P1,S ug/kg	3.7	SW846 8260B	1	01/17/2023 16:53	TMP	С
Chloroform	ND	ND,P1,S ug/kg	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Chloromethane	ND	ND,1,2, ug/kg P1,S3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1,S ug/kg	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
cis-1,3-Dichloropropene	ND	ND,3,4, ug/kg P1,S3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Cyclohexane	ND	ND,P1,S ug/kg	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Dichlorodifluoromethane	ND	ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Ethylbenzene	ND	S ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Freon 113	ND	ND,7,P1 ug/kg	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Isopropylbenzene	ND	,S3 ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Methyl acetate	ND	ND,8,P1 ug/kg	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Methyl cyclohexane	ND	,S3 ND,P1,S ug/kg	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Methyl t-Butyl Ether	ND	3 ND,9,P1 ug/kg	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Methylene Chloride	ND	,S3 ND,P1,S ug/kg	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
mp-Xylene	ND	3 ND,P1,S ug/kg	2.9	SW846 8260B	1	01/17/2023 16:53	TMP	С
o-Xylene	ND	3 ND,P1,S ug/kg	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Styrene	ND	3 ND,P1,S ug/kg	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Tetrachloroethene	ND	3 ND,P1,S ug/kg	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Toluene	ND	3 ND,P1,S ug/kg	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Total Xylenes	ND	3 ND,P1,S ug/kg	4.4	SW846 8260B	1	01/17/2023 16:53		С
trans-1,2-Dichloroethene	ND	3 ND,P1,S ug/kg	1.5	SW846 8260B	1	01/17/2023 16:53		С
trans-1,3-Dichloropropene	ND	3 ND,5,6, ug/kg	1.5	SW846 8260B	1	01/17/2023 16:53		С
		P1,S3		01101002008				~



Client Sample ID SB-07-	7-9-4	Collected 0	1/11/2023 15:30
			1/13/2023 09:02

# VOLATILE ORGANICS (cont.)

<u>Compound</u>	<u>Result</u>	<u>Flag Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Trichloroethene	ND	ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Trichlorofluoromethane	ND	ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
Vinyl Chloride	ND	ND,P1,S ug/kg 3	1.5	SW846 8260B	1	01/17/2023 16:53	TMP	С
SURROGATES								
Compound	CAS No		Recovery	Limits(%)	<u>Analysis</u>	Date/Time	Qualifie	rs
1,2-Dichloroethane-d4	17060-07-0		91.3 %	56 - 124	01/17/2023	16:53		

4-Bromofluorobenzene	460-00-4	90.6%	51 - 128	01/17/2023 16:53	
Dibromofluoromethane	1868-53-7	68.3%	62 - 123	01/17/2023 16:53	
Toluene-d8	2037-26-5	89.6%	59 - 131	01/17/2023 16:53	

## WET CHEMISTRY

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	<u>Method</u>	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1,S 3	mg/kg	2.5	SW846 7196A	1	01/19/2023 08:44	AKH	А
Moisture	19.4	P1,S3	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	80.6	P1,S3	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



<u> </u>			2
Client Sample ID	SB-01-0-2	Collected	01/12/2023 09:50
Lab Sample ID	3282987013	Lab Receipt	01/13/2023 09:02
Lab Sample ID	3282987013	Lab Receipt	01/13/2

## METALS

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	9000	P1	mg/kg	40.3	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Antimony, Total	ND	ND,11,P 1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Arsenic, Total	9.5	P1	mg/kg	1.5	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Barium, Total	74.9	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Beryllium, Total	0.66	P1	mg/kg	0.50	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Cadmium, Total	ND	ND,P1	mg/kg	0.50	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Calcium, Total	25600	13,P1	mg/kg	50.3	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Chromium, Total	11.8	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Cobalt, Total	8.8	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Copper, Total	14.8	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Iron, Total	25500	P1	mg/kg	25.2	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Lead, Total	12.1	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Magnesium, Total	2870	P1	mg/kg	50.3	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Manganese, Total	1270	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Mercury, Total	ND	ND,P1	mg/kg	0.049	SW846 7471B	1	01/19/2023 15:33	WDA	А
Nickel, Total	14.9	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Potassium, Total	1100	P1	mg/kg	50.3	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Sodium, Total	235	P1	mg/kg	50.3	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.50	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Trivalent Chromium	11.8	P1	mg/kg	2.3	Calculation	1	01/24/2023 09:20	CW	А
Vanadium, Total	22.0	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:17	RMD	A1
Zinc, Total	56.9	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:17	RMD	A1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	2.8	SW846 8260B	1	01/17/2023 18:07	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	2.8	SW846 8260B	1	01/17/2023 18:07	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	2.8	SW846 8260B	1	01/17/2023 18:07	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
2-Butanone	ND	ND,P1	ug/kg	5.5	SW846 8260B	1	01/17/2023 18:07	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	5.5	SW846 8260B	1	01/17/2023 18:07	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	5.5	SW846 8260B	1	01/17/2023 18:07	TMP	С
Acetone	ND	ND,P1	ug/kg	5.5	SW846 8260B	1	01/17/2023 18:07	TMP	С



Client Sample ID Lab Sample ID SB-01-0-2 3282987013

Collected 0 Lab Receipt 0

01/12/2023 09:50 01/13/2023 09:02

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>Βγ</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Bromochloromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Bromoform	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Bromomethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Carbon Disulfide	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Chlorodibromomethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Chloroethane	ND	ND,P1	ug/kg	2.8	SW846 8260B	1	01/17/2023 18:07	TMP	С
Chloroform	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Chloromethane	ND	ND,1,2, P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
cis-1,3-Dichloropropene	ND	ND,3,4, P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Freon 113	ND	ND,7,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
lsopropylbenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Methyl acetate	ND	ND,8,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Methyl t-Butyl Ether	ND	ND,9,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Methylene Chloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	2.2	SW846 8260B	1	01/17/2023 18:07	TMP	С
o-Xylene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Styrene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Tetrachloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Toluene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/17/2023 18:07	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
trans-1,3-Dichloropropene	ND	ND,5,6, P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/17/2023 18:07	TMP	С

#### SURROGATES

<u>Compound</u>	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	87.5%	56 - 124	01/17/2023 18:07	
4-Bromofluorobenzene	460-00-4	80%	51 – 128	01/17/2023 18:07	
Dibromofluoromethane	1868-53-7	68.3%	62 - 123	01/17/2023 18:07	
Toluene-d8	2037-26-5	81.8 %	59 – 131	01/17/2023 18:07	

## WET CHEMISTRY

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
ALS is one of the world's largest a	nd most diver	sified and	alytical testing	service providers. To learn i	nore visit us at: ww	w.alsglobal.	com		



Client Sample ID	SB-01-0-2	Collected	01/12/2023 09:50
Lab Sample ID	3282987013	Lab Receipt	01/13/2023 09:02

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.3	SW846 7196A	1	01/19/2023 08:44	AKH	А
Moisture	13.5	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	86.5	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



Client Sample ID	SB-01-10-12	Collected	01/12/2023 09:55
Lab Sample ID	3282987014	Lab Receipt	01/13/2023 09:02

## METALS

Compound	Result	Flag	Units	RDL	Method	Dilution	Analysis Date/Time	By	Cntr
Aluminum, Total	6330	P1	mg/kg	39.6	SW846 6020A	5	01/19/2023 18:19	RMD	<u>A1</u>
Antimony, Total	ND	ND,11,P 1	mg/kg	0.99	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Arsenic, Total	11.2	P1	mg/kg	1.5	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Barium, Total	43.5	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Beryllium, Total	ND	ND,P1	mg/kg	0.49	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Cadmium, Total	ND	ND,P1	mg/kg	0.49	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Calcium, Total	935	13,P1	mg/kg	49.5	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Chromium, Total	13.1	P1	mg/kg	0.99	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Cobalt, Total	10.6	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Copper, Total	14.2	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Iron, Total	29900	P1	mg/kg	24.7	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Lead, Total	12.8	P1	mg/kg	0.99	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Magnesium, Total	1340	P1	mg/kg	49.5	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Manganese, Total	701	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Mercury, Total	ND	ND,P1	mg/kg	0.054	SW846 7471B	1	01/19/2023 15:39	WDA	А
Nickel, Total	14.8	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Potassium, Total	672	P1	mg/kg	49.5	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	0.99	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Sodium, Total	232	P1	mg/kg	49.5	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.49	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Trivalent Chromium	12.1	P1	mg/kg	2.3	Calculation	1	01/24/2023 09:21	CW	А
Vanadium, Total	16.6	P1	mg/kg	0.99	SW846 6020A	5	01/19/2023 18:19	RMD	A1
Zinc, Total	55.5	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 18:19	RMD	A1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	2.3	SW846 8260B	1	01/17/2023 20:59	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	2.3	SW846 8260B	1	01/17/2023 20:59	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	2.3	SW846 8260B	1	01/17/2023 20:59	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
2-Butanone	ND	ND,P1	ug/kg	4.7	SW846 8260B	1	01/17/2023 20:59	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	4.7	SW846 8260B	1	01/17/2023 20:59	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	4.7	SW846 8260B	1	01/17/2023 20:59	TMP	С
Acetone	6.9	P1	ug/kg	4.7	SW846 8260B	1	01/17/2023 20:59	TMP	С



**Client Sample ID** SB-01-10-12 Collected 01/12/2023 09:55 Lab Sample ID 3282987014 Lab Receipt 01/13/2023 09:02

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Bromochloromethane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Bromoform	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Bromomethane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Carbon Disulfide	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Chlorodibromomethane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Chloroethane	ND	ND,P1	ug/kg	2.3	SW846 8260B	1	01/17/2023 20:59	TMP	С
Chloroform	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Chloromethane	ND	ND,1,2, P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
cis-1,3-Dichloropropene	ND	ND,3,4, P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Freon 113	ND	ND,7,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Isopropylbenzene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Methyl acetate	ND	ND,8,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Methyl t-Butyl Ether	ND	ND,9,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Methylene Chloride	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	1.9	SW846 8260B	1	01/17/2023 20:59	TMP	С
o-Xylene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Styrene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Tetrachloroethene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Toluene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	2.8	SW846 8260B	1	01/17/2023 20:59	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
trans-1,3-Dichloropropene	ND	ND,5,6, P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Trichlorofluoromethane	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	0.94	SW846 8260B	1	01/17/2023 20:59	TMP	С

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<b>Qualifiers</b>
1,2-Dichloroethane-d4	17060-07-0	89.7%	56 - 124	01/17/2023 20:59	
4-Bromofluorobenzene	460-00-4	87.5%	51 – 128	01/17/2023 20:59	
Dibromofluoromethane	1868-53-7	70.9%	62 - 123	01/17/2023 20:59	
Toluene-d8	2037-26-5	87.8%	59 - 131	01/17/2023 20:59	

## WET CHEMISTRY

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<u>Dilution</u>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
ALS is one of the world's largest a 2/3/2023 9:09 AM	nd most dive	rsified an	alytical testin	g service provide	rs. To learn more visit us at: ww	w.alsglobal.		2 of 14	41



Client Sample ID	SB-01-10-12	Collected	01/12/2023 09:55
Lab Sample ID	3282987014	Lab Receipt	01/13/2023 09:02
			01110/2020 00:02

#### Compound **Result** Flag <u>Units</u> RDL Method **Dilution** Analysis Date/Time <u>Вy</u> Cntr Hexavalent Chromium ND ND,P1 2.3 SW846 7196A 01/19/2023 08:44 AKH mg/kg 1 А Moisture 13.0 P1 % 0.1 S2540G-11 1 01/17/2023 14:20 NXL Total Solids 87.0 P1 % 0.1 S2540G-11 01/17/2023 14:20 NXL 1



Client Sample ID	SB-11-0-2	Collected	01/12/2023 13:15
Lab Sample ID	3282987015	Lab Receipt	01/13/2023 09:02
Lab Sample ID	3282987015	Lab Receipt	

## METALS

Compound	Result	Flag	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	12000	P1	mg/kg	40.8	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Antimony, Total	ND	ND,11,P 1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Arsenic, Total	14.3	P1	mg/kg	1.5	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Barium, Total	232	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Beryllium, Total	1.4	P1	mg/kg	0.51	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Cadmium, Total	ND	ND,P1	mg/kg	0.51	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Calcium, Total	37900	13,P1	mg/kg	51.0	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Chromium, Total	10.0	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Cobalt, Total	6.7	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Copper, Total	18.1	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Iron, Total	24900	P1	mg/kg	25.5	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Lead, Total	61.0	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Magnesium, Total	7470	P1	mg/kg	51.0	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Manganese, Total	2850	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Mercury, Total	0.10	P1	mg/kg	0.050	SW846 7471B	1	01/19/2023 15:43	WDA	А
Nickel, Total	12.6	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Potassium, Total	1320	P1	mg/kg	51.0	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.6	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Sodium, Total	250	P1	mg/kg	51.0	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.51	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Trivalent Chromium	10.0	P1	mg/kg	2.2	Calculation	1	01/24/2023 09:22	CW	А
Vanadium, Total	17.4	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 18:21	RMD	A1
Zinc, Total	78.1	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 18:21	RMD	A1

## **VOLATILE ORGANICS**

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>Вy</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
2-Butanone	ND	ND,P1	ug/kg	6.7	SW846 8260B	1	01/18/2023 15:14	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	6.7	SW846 8260B	1	01/18/2023 15:14	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	6.7	SW846 8260B	1	01/18/2023 15:14	TMP	С
Acetone	11.4	P1	ug/kg	6.7	SW846 8260B	1	01/18/2023 15:14	TMP	С



Client Sample ID Lab Sample ID SB-11-0-2 3282987015

01/12/2023 13:15 01/13/2023 09:02

Collected

Lab Receipt

## **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Bromochloromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Bromoform	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Bromomethane	ND	ND,16,P 1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Carbon Disulfide	6.8	P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Chlorodibromomethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Chloroethane	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Chloroform	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Chloromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
cis-1,3-Dichloropropene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Freon 113	ND	ND,17,1 8,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
lsopropylbenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Methyl acetate	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Methyl t-Butyl Ether	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Methylene Chloride	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/18/2023 15:14	TMP	С
o-Xylene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Styrene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Tetrachloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Toluene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	4.0	SW846 8260B	1	01/18/2023 15:14	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
trans-1,3-Dichloropropene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 15:14	TMP	С

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<b>Qualifiers</b>
1,2-Dichloroethane-d4	17060-07-0	88.3%	56 - 124	01/18/2023 15:14	
4-Bromofluorobenzene	460-00-4	81.3 %	51 - 128	01/18/2023 15:14	
Dibromofluoromethane	1868-53-7	67.5%	62 - 123	01/18/2023 15:14	
Toluene-d8	2037-26-5	79.5%	59 – 131	01/18/2023 15:14	

## WET CHEMISTRY

<u>Compound</u>	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
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Client Sample ID	SB-11-0-2	Collected	01/12/2023 13:15
Lab Sample ID	3282987015	Lab Receipt	01/13/2023 09:02

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.2	SW846 7196A	1	01/19/2023 08:44	AKH	А
Moisture	9.1	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	90.9	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



Client Sample ID	SB-11-6-8	Collected	01/12/2023 13:20
Lab Sample ID	3282987016	Lab Receipt	01/13/2023 09:02

## METALS

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	5500	P1	mg/kg	45.3	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Antimony, Total	ND	ND,11,P 1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Arsenic, Total	12.4	P1	mg/kg	1.7	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Barium, Total	72.3	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Beryllium, Total	0.59	P1	mg/kg	0.57	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Cadmium, Total	ND	ND,P1	mg/kg	0.57	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Calcium, Total	2090	13,P1	mg/kg	56.6	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Chromium, Total	11.3	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Cobalt, Total	7.7	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Copper, Total	13.0	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Iron, Total	27600	P1	mg/kg	28.3	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Lead, Total	13.4	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Magnesium, Total	1310	P1	mg/kg	56.6	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Manganese, Total	382	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Mercury, Total	0.11	P1	mg/kg	0.056	SW846 7471B	1	01/19/2023 15:44	WDA	А
Nickel, Total	13.6	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Potassium, Total	737	P1	mg/kg	56.6	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Sodium, Total	139	P1	mg/kg	56.6	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.57	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Trivalent Chromium	11.3	P1	mg/kg	2.4	Calculation	1	01/24/2023 09:23	CW	А
Vanadium, Total	15.0	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:39	RMD	A1
Zinc, Total	51.3	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:39	RMD	A1

## **VOLATILE ORGANICS**

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>Вy</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
2-Butanone	ND	ND,P1	ug/kg	6.7	SW846 8260B	1	01/19/2023 13:13	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	6.7	SW846 8260B	1	01/19/2023 13:13	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	6.7	SW846 8260B	1	01/19/2023 13:13	TMP	С
Acetone	11.1	P1	ug/kg	6.7	SW846 8260B	1	01/19/2023 13:13	TMP	С



Client Sample ID Lab Sample ID SB-11-6-8 3282987016

Collected Lab Receipt 01/12/2023 13:20 01/13/2023 09:02

# VOLATILE ORGANICS (cont.)

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Bromochloromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Bromoform	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Bromomethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Carbon Disulfide	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Chlorodibromomethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Chloroethane	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Chloroform	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Chloromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
cis-1,3-Dichloropropene	ND	ND,26,P 1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Freon 113	ND	ND,27,P 1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Isopropylbenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Methyl acetate	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Methyl t-Butyl Ether	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Methylene Chloride	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/19/2023 13:13	TMP	С
o-Xylene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Styrene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Tetrachloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Toluene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	4.0	SW846 8260B	1	01/19/2023 13:13	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
trans-1,3-Dichloropropene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/19/2023 13:13	TMP	С

#### SURROGATES

Compound	CAS No	<u>Recovery</u>	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	90.3 %	56 - 124	01/19/2023 13:13	
4-Bromofluorobenzene	460-00-4	85.6%	51 – 128	01/19/2023 13:13	
Dibromofluoromethane	1868-53-7	69.2%	62 - 123	01/19/2023 13:13	
Toluene-d8	2037-26-5	85.3%	59 - 131	01/19/2023 13:13	

## WET CHEMISTRY

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
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Client Sample ID	SB-11-6-8	Collected	01/12/2023 13:20
Lab Sample ID	3282987016	Lab Receipt	01/13/2023 09:02

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.4	SW846 7196A	1	01/19/2023 08:44	AKH	А
Moisture	15.8	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	84.2	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



Lab Sample ID 2292097017 Lab Bassint 01/12/200	Client Sample ID	SB-12-0-2	Collected	01/12/2023 12:20
Lab Sample iD 5202907077 Lab Receipt 01/15/202	Lab Sample ID	3282987017	Lab Receipt	01/13/2023 09:02

## METALS

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	8960	P1	mg/kg	42.2	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Antimony, Total	ND	ND,11,P 1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Arsenic, Total	15.4	P1	mg/kg	1.6	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Barium, Total	126	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Beryllium, Total	1.1	P1	mg/kg	0.53	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Cadmium, Total	0.67	P1	mg/kg	0.53	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Calcium, Total	9300	13,P1	mg/kg	52.7	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Chromium, Total	13.0	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Cobalt, Total	9.5	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Copper, Total	37.6	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Iron, Total	30000	P1	mg/kg	26.4	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Lead, Total	57.2	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Magnesium, Total	2530	P1	mg/kg	52.7	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Manganese, Total	423	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Mercury, Total	0.18	P1	mg/kg	0.052	SW846 7471B	1	01/19/2023 15:45	WDA	А
Nickel, Total	18.6	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Potassium, Total	982	P1	mg/kg	52.7	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.6	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Sodium, Total	208	P1	mg/kg	52.7	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.53	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Trivalent Chromium	13.0	P1	mg/kg	2.2	Calculation	1	01/24/2023 09:24	CW	А
Vanadium, Total	17.7	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:41	RMD	A1
Zinc, Total	119	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 18:41	RMD	A1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	2.9	SW846 8260B	1	01/19/2023 13:37	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	2.9	SW846 8260B	1	01/19/2023 13:37	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	2.9	SW846 8260B	1	01/19/2023 13:37	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
2-Butanone	ND	ND,P1	ug/kg	5.8	SW846 8260B	1	01/19/2023 13:37	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	5.8	SW846 8260B	1	01/19/2023 13:37	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	5.8	SW846 8260B	1	01/19/2023 13:37	TMP	С
Acetone	7.8	P1	ug/kg	5.8	SW846 8260B	1	01/19/2023 13:37	TMP	С



**Client Sample ID** 01/12/2023 12:20 SB-12-0-2 Collected Lab Sample ID 3282987017 Lab Receipt 01/13/2023 09:02

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Bromochloromethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Bromoform	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Bromomethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Carbon Disulfide	3.0	P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Chlorodibromomethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Chloroethane	ND	ND,P1	ug/kg	2.9	SW846 8260B	1	01/19/2023 13:37	TMP	С
Chloroform	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Chloromethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
cis-1,3-Dichloropropene	ND	ND,26,P 1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Freon 113	ND	ND,27,P 1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Isopropylbenzene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Methyl acetate	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Methyl t-Butyl Ether	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Methylene Chloride	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	2.3	SW846 8260B	1	01/19/2023 13:37	TMP	С
o-Xylene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Styrene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Tetrachloroethene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Toluene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	3.5	SW846 8260B	1	01/19/2023 13:37	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
trans-1,3-Dichloropropene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 13:37	TMP	С

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	89.4%	56 - 124	01/19/2023 13:37	
4-Bromofluorobenzene	460-00-4	101%	51 – 128	01/19/2023 13:37	
Dibromofluoromethane	1868-53-7	61.6*%	62 - 123	01/19/2023 13:37	28
Toluene-d8	2037-26-5	86.9%	59 – 131	01/19/2023 13:37	

## WET CHEMISTRY

2/3/2023 9:09 AM

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>	
ALS is one of the world's largest a	ALS is one of the world's largest and most diversified analytical testing service providers. To learn more visit us at: www.alsglobal.com									



Client Sample ID	SB-12-0-2	Collected	01/12/2023 12:20
Lab Sample ID	3282987017	Lab Receipt	01/13/2023 09:02

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.2	SW846 7196A	1	01/19/2023 08:44	AKH	А
Moisture	12.5	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	87.5	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



Client Sample ID	SB-12-10-12	Collected	01/12/2023 12:25
Lab Sample ID	3282987018	Lab Receipt	01/13/2023 09:02

## METALS

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	7270	P1	mg/kg	46.8	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Antimony, Total	ND	ND,11,P 1	mg/kg	1.2	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Arsenic, Total	8.4	P1	mg/kg	1.8	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Barium, Total	163	P1	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Beryllium, Total	0.80	P1	mg/kg	0.58	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Cadmium, Total	ND	ND,P1	mg/kg	0.58	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Calcium, Total	2400	13,P1	mg/kg	58.5	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Chromium, Total	11.2	P1	mg/kg	1.2	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Cobalt, Total	10.3	P1	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Copper, Total	13.9	P1	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Iron, Total	24900	P1	mg/kg	29.2	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Lead, Total	17.7	P1	mg/kg	1.2	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Magnesium, Total	1410	P1	mg/kg	58.5	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Manganese, Total	962	P1	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Mercury, Total	0.072	P1	mg/kg	0.055	SW846 7471B	1	01/19/2023 15:46	WDA	А
Nickel, Total	18.8	P1	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Potassium, Total	842	P1	mg/kg	58.5	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	1.2	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Sodium, Total	214	P1	mg/kg	58.5	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.58	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Trivalent Chromium	11.2	P1	mg/kg	2.4	Calculation	1	01/24/2023 09:25	CW	А
Vanadium, Total	15.7	P1	mg/kg	1.2	SW846 6020A	5	01/19/2023 18:44	RMD	A1
Zinc, Total	66.2	P1	mg/kg	2.9	SW846 6020A	5	01/19/2023 18:44	RMD	A1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	2.4	SW846 8260B	1	01/18/2023 16:27	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	2.4	SW846 8260B	1	01/18/2023 16:27	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	2.4	SW846 8260B	1	01/18/2023 16:27	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
2-Butanone	ND	ND,P1	ug/kg	4.8	SW846 8260B	1	01/18/2023 16:27	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	4.8	SW846 8260B	1	01/18/2023 16:27	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	4.8	SW846 8260B	1	01/18/2023 16:27	TMP	С
Acetone	12.8	P1	ug/kg	4.8	SW846 8260B	1	01/18/2023 16:27	TMP	С



 Client Sample ID
 SB-12-10-12
 Collected
 01/12/2023 12:25

 Lab Sample ID
 3282987018
 Lab Receipt
 01/13/2023 09:02

## **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Bromochloromethane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Bromoform	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Bromomethane	ND	ND,16,P 1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Carbon Disulfide	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Chlorodibromomethane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Chloroethane	ND	ND,P1	ug/kg	2.4	SW846 8260B	1	01/18/2023 16:27	TMP	С
Chloroform	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Chloromethane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
cis-1,3-Dichloropropene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Freon 113	ND	ND,17,1 8,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Isopropylbenzene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Methyl acetate	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Methyl t-Butyl Ether	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Methylene Chloride	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	1.9	SW846 8260B	1	01/18/2023 16:27	TMP	С
o-Xylene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Styrene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Tetrachloroethene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Toluene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	2.9	SW846 8260B	1	01/18/2023 16:27	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
trans-1,3-Dichloropropene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Trichlorofluoromethane	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	0.95	SW846 8260B	1	01/18/2023 16:27	TMP	С

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	87.9%	56 - 124	01/18/2023 16:27	
4-Bromofluorobenzene	460-00-4	81.9%	51 – 128	01/18/2023 16:27	
Dibromofluoromethane	1868-53-7	67.1%	62 - 123	01/18/2023 16:27	
Toluene-d8	2037-26-5	80.4%	59 – 131	01/18/2023 16:27	

## WET CHEMISTRY

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
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Client Sample ID	SB-12-10-12	Collected	01/12/2023 12:25
Lab Sample ID	3282987018	Lab Receipt	01/13/2023 09:02

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.4	SW846 7196A	1	01/19/2023 11:40	AKH	A
Moisture	19.2	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	80.8	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



Client Sample ID	SB-12-10-12D	Collected	01/12/2023 12:30
Lab Sample ID	3282987019	Lab Receipt	01/13/2023 09:02

## METALS

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	6960	P1	mg/kg	44.3	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Antimony, Total	ND	ND,11,P 1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Arsenic, Total	9.1	P1	mg/kg	1.7	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Barium, Total	120	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Beryllium, Total	0.62	P1	mg/kg	0.55	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Cadmium, Total	ND	ND,P1	mg/kg	0.55	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Calcium, Total	1710	13,P1	mg/kg	55.3	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Chromium, Total	10.8	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Cobalt, Total	10.4	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Copper, Total	10.4	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Iron, Total	23900	P1	mg/kg	27.7	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Lead, Total	12.0	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Magnesium, Total	1220	P1	mg/kg	55.3	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Manganese, Total	359	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Mercury, Total	0.072	P1	mg/kg	0.054	SW846 7471B	1	01/19/2023 15:47	WDA	А
Nickel, Total	15.6	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Potassium, Total	790	P1	mg/kg	55.3	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Silver, Total	ND	ND,P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Sodium, Total	225	P1	mg/kg	55.3	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Thallium, Total	ND	ND,P1	mg/kg	0.55	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Trivalent Chromium	10.8	P1	mg/kg	2.5	Calculation	1	01/24/2023 09:26	CW	А
Vanadium, Total	14.3	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 18:46	RMD	A1
Zinc, Total	53.4	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 18:46	RMD	A1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/19/2023 14:02	TMP	С
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/19/2023 14:02	TMP	С
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/19/2023 14:02	TMP	С
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
2-Butanone	ND	ND,P1	ug/kg	5.3	SW846 8260B	1	01/19/2023 14:02	TMP	С
2-Hexanone	ND	ND,P1	ug/kg	5.3	SW846 8260B	1	01/19/2023 14:02	TMP	С
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	5.3	SW846 8260B	1	01/19/2023 14:02	TMP	С
Acetone	5.7	P1	ug/kg	5.3	SW846 8260B	1	01/19/2023 14:02	TMP	С



**Client Sample ID** SB-12-10-12D 01/12/2023 12:30 Collected Lab Sample ID 3282987019 Lab Receipt 01/13/2023 09:02

## **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Bromochloromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Bromodichloromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Bromoform	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Bromomethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Carbon Disulfide	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Chlorobenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Chlorodibromomethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Chloroethane	ND	ND,P1	ug/kg	2.7	SW846 8260B	1	01/19/2023 14:02	TMP	С
Chloroform	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Chloromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
cis-1,3-Dichloropropene	ND	ND,26,P 1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Cyclohexane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Ethylbenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Freon 113	ND	ND,27,P 1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Isopropylbenzene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Methyl acetate	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Methyl cyclohexane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Methyl t-Butyl Ether	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Methylene Chloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
mp-Xylene	ND	ND,P1	ug/kg	2.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
o-Xylene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Styrene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Tetrachloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Toluene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Total Xylenes	ND	ND,P1	ug/kg	3.2	SW846 8260B	1	01/19/2023 14:02	TMP	С
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
trans-1,3-Dichloropropene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Trichloroethene	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С
Vinyl Chloride	ND	ND,P1	ug/kg	1.1	SW846 8260B	1	01/19/2023 14:02	TMP	С

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	86.9%	56 - 124	01/19/2023 14:02	
4-Bromofluorobenzene	460-00-4	86.6%	51 – 128	01/19/2023 14:02	
Dibromofluoromethane	1868-53-7	66.3%	62 - 123	01/19/2023 14:02	
Toluene-d8	2037-26-5	79.9%	59 - 131	01/19/2023 14:02	

## WET CHEMISTRY

2/3/2023 9:09 AM

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
ALS is one of the world's largest a	and most dive	ersified an	alytical testin	g service providers	. To learn more visit us at: ww	w.alsglobal.	com		



Client Sample ID	SB-12-10-12D	Collected	01/12/2023 12:30
Lab Sample ID	3282987019	Lab Receipt	01/13/2023 09:02
WET CHEMISTRY	′ (cont.)		

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.5	SW846 7196A	1	01/19/2023 11:40	AKH	А
Moisture	19.9	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	
Total Solids	80.1	P1	%	0.1	S2540G-11	1	01/17/2023 14:20	NXL	



Client Sample ID	SB-10-0-2	Collected	01/13/2023 09:10
Lab Sample ID	3283084001	Lab Receipt	01/14/2023 08:42

## METALS

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<u>Dilution</u>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	7850	P1	mg/kg	45.5	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Antimony, Total	2.1	P1	mg/kg	1.1	SW846 6020A	5	01/20/2023 14:58	RMD	E1
Arsenic, Total	17.1	P1	mg/kg	1.7	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Barium, Total	119	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Beryllium, Total	1.1	P1	mg/kg	0.57	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Cadmium, Total	1.1	P1	mg/kg	0.57	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Calcium, Total	3250	P1	mg/kg	56.9	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Chromium, Total	34.7	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Cobalt, Total	10.6	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Copper, Total	35.9	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Iron, Total	30700	P1	mg/kg	28.4	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Lead, Total	108	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Magnesium, Total	1220	P1	mg/kg	56.9	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Manganese, Total	591	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Mercury, Total	0.29	P1	mg/kg	0.060	SW846 7471B	1	01/19/2023 15:54	WDA	Е
Nickel, Total	24.3	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Potassium, Total	705	P1	mg/kg	56.9	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Selenium, Total	ND	ND,P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Silver, Total	ND	ND,P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Sodium, Total	58.9	P1	mg/kg	56.9	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Thallium, Total	ND	ND,P1	mg/kg	0.57	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Trivalent Chromium	34.5	P1	mg/kg	2.3	Calculation	1	01/23/2023 11:46	CW	E
Vanadium, Total	19.6	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 19:40	RMD	E1
Zinc, Total	171	P1	mg/kg	2.8	SW846 6020A	5	01/19/2023 19:40	RMD	E1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	3.0	SW846 8260B	1	01/19/2023 14:27	TMP	В
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	3.0	SW846 8260B	1	01/19/2023 14:27	TMP	В
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	3.0	SW846 8260B	1	01/19/2023 14:27	TMP	В
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
2-Butanone	ND	ND,P1	ug/kg	6.0	SW846 8260B	1	01/19/2023 14:27	TMP	В
2-Hexanone	ND	ND,P1	ug/kg	6.0	SW846 8260B	1	01/19/2023 14:27	TMP	В
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	6.0	SW846 8260B	1	01/19/2023 14:27	TMP	В
Acetone	ND	ND,P1	ug/kg	6.0	SW846 8260B	1	01/19/2023 14:27	TMP	В
Benzene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В



 Client Sample ID
 SB-10-0-2
 Collected
 01/13/2023 09:10

 Lab Sample ID
 3283084001
 Lab Receipt
 01/14/2023 08:42

## **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Bromochloromethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Bromodichloromethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Bromoform	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Bromomethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Carbon Disulfide	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Chlorobenzene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Chlorodibromomethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Chloroethane	ND	ND,P1	ug/kg	3.0	SW846 8260B	1	01/19/2023 14:27	TMP	В
Chloroform	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Chloromethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
cis-1,3-Dichloropropene	ND	ND,26,P 1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Cyclohexane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	в
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Ethylbenzene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	в
Freon 113	ND	ND,27,P 1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Isopropylbenzene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	в
Methyl acetate	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Methyl cyclohexane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	в
Methyl t-Butyl Ether	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Methylene Chloride	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
mp-Xylene	ND	ND,P1	ug/kg	2.4	SW846 8260B	1	01/19/2023 14:27	TMP	В
o-Xylene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Styrene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Tetrachloroethene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Toluene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	в
Total Xylenes	ND	ND,P1	ug/kg	3.6	SW846 8260B	1	01/19/2023 14:27	TMP	В
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	в
trans-1,3-Dichloropropene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Trichloroethene	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	в
Vinyl Chloride	ND	ND,P1	ug/kg	1.2	SW846 8260B	1	01/19/2023 14:27	TMP	В

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	92.3%	56 - 124	01/19/2023 14:27	
4-Bromofluorobenzene	460-00-4	84.9%	51 - 128	01/19/2023 14:27	
Dibromofluoromethane	1868-53-7	69.7%	62 - 123	01/19/2023 14:27	
Toluene-d8	2037-26-5	83.3%	59 - 131	01/19/2023 14:27	

## WET CHEMISTRY

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.3	SW846 7196A	1	01/19/2023 11:40	AKH	Е



Client Sample ID	SB-10-0-2	Collected	01/13/2023 09:10
Lab Sample ID	3283084001	Lab Receipt	01/14/2023 08:42

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
Moisture	17.1	P1	%	0.1	S2540G-11	1	01/18/2023 13:20	NXL	D
Total Solids	82.9	P1	%	0.1	S2540G-11	1	01/18/2023 13:20	NXL	D



Client Sample ID	SB-10-4-6	Collected	01/13/2023 09:15
Lab Sample ID	3283084002	Lab Receipt	01/14/2023 08:42

## METALS

Aluminum, Total         11500         P1         mg/kg         41.0         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Antimony, Total         ND         ND.11,2         mg/kg         1.0         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Arsenic, Total         9.9         P1         mg/kg         1.5         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Barium, Total         0.90         P1         mg/kg         0.51         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Cadmium, Total         0.90         P1         mg/kg         0.51         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Cadmium, Total         ND         ND,P1         mg/kg         51.2         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Cobalt, Total         13.0         P1         mg/kg         2.6         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Iron, Total         13.0         P1         mg/kg         2.6         SW846 6020A         5         01/19/2023 19:42 <t< th=""><th>Compound</th><th><u>Result</u></th><th>Flag</th><th><u>Units</u></th><th>RDL</th><th>Method</th><th><b>Dilution</b></th><th>Analysis Date/Time</th><th><u>By</u></th><th><u>Cntr</u></th></t<>	Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Animoly, IodalIodg,P1ing/kg1.5Since (0120)5.42(1kl)E1Arsenic, Total9.9P1mg/kg1.5SW846 6020A501/19/2023 19.42RMDE1Barium, Total0.90P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Cadmium, Total0.90P1mg/kg0.51SW846 6020A501/19/2023 19.42RMDE1Cadmium, Total1990P1mg/kg5.12SW846 6020A501/19/2023 19.42RMDE1Cobalt, Total1990P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Cobalt, Total13.0P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Cobalt, Total13.0P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Lead, Total30200P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Lead, Total15.5P1mg/kg51.2SW846 6020A501/19/2023 19.42RMDE1Lead, Total15.5P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Manganese, Total1890P1mg/kg0.60SW846 6020A501/19/2023 19.42RMDE1Manganese, Total1300P1mg/kg2.6SW846 6020A501/19/2023 19.42RMD<	Aluminum, Total	11500	P1	mg/kg	41.0	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Barium, Total         215         P1         mg/kg         2.6         SW846 6020A         5         0.11/19/2023 19.42         RMD         E1           Beryllium, Total         0.90         P1         mg/kg         0.51         SW846 6020A         5         0.11/19/2023 19.42         RMD         E1           Cadmium, Total         ND         ND         P1         mg/kg         5.12         SW846 6020A         5         0.11/19/2023 19.42         RMD         E1           Calcium, Total         1990         P1         mg/kg         5.12         SW846 6020A         5         0.11/19/2023 19.42         RMD         E1           Chromium, Total         13.0         P1         mg/kg         2.6         SW846 6020A         5         0.11/19/2023 19.42         RMD         E1           Copper, Total         13.0         P1         mg/kg         2.6         SW846 6020A         5         0.11/19/203 19.42         RMD         E1           Lead, Total         30200         P1         mg/kg         2.6         SW846 6020A         5         0.11/19/203 19.42         RMD         E1           Magnaseium, Total         15.5         P1         mg/kg         2.6         SW846 6020A         5         0.1	Antimony, Total	ND		mg/kg	1.0	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Beryllium, Total0.90P1mg/kg0.51SW846 6020A501/19/2023 19:42RMDE1Cadmium, TotalNDND,P1mg/kg0.51SW846 6020A501/19/2023 19:42RMDE1Calcium, Total1990P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Cobalt, Total15.7P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Cobalt, Total13.0P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Coper, Total15.8P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Iron, Total30200P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Magnesium, Total15.5P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Magnesium, Total15.5P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Magnesium, Total1890P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Magnesium, Total1990P1mg/kg61.2SW846 6020A501/19/2023 19:42RMDE1Marganese, Total110ND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND,P1mg/kg2.6SW846 6020A	Arsenic, Total	9.9	P1	mg/kg	1.5	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Cadmium, TotalNDND,Pimg/kg0.51SW846 6020A501/19/2023 19:42RMDE1Calcium, Total1990P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Chromium, Total15.7P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Cobalt, Total13.0P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Copper, Total15.8P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Lead, Total30200P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Lead, Total30200P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Lead, Total15.5P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Lead, Total1890P1mg/kg6.12SW846 6020A501/19/2023 19:42RMDE1Marganesium, Total1890P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Mercury, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND,P1mg/kg2.6SW846 6020A501/19	Barium, Total	215	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Calcium, Total1990Pimg/kg51.2SW846 6020A501/19/203 19:42RMDE1Chromium, Total15.7Pimg/kg1.0SW846 6020A501/19/203 19:42RMDE1Cobalt, Total13.0Pimg/kg2.6SW846 6020A501/19/203 19:42RMDE1Copper, Total15.8Pimg/kg2.6SW846 6020A501/19/203 19:42RMDE1Iron, Total30200Pimg/kg25.6SW846 6020A501/19/203 19:42RMDE1Lead, Total15.5Pimg/kg1.0SW846 6020A501/19/203 19:42RMDE1Magnesium, Total1890Pimg/kg51.2SW846 6020A501/19/203 19:42RMDE1Magnese, Total1120Pimg/kg2.6SW846 6020A501/19/203 19:42RMDE1Marganese, Total1120Pimg/kg2.6SW846 6020A501/19/203 19:42RMDE1Marganese, Total1300Pimg/kg2.6SW846 6020A501/19/203 19:42RMDE1Nickel, Total1300Pimg/kg2.6SW846 6020A501/19/203 19:42RMDE1Selenium, Total1300Pimg/kg2.6SW846 6020A501/19/203 19:42RMDE1Selenium, TotalNDND.Pimg/kg2.6SW846 6020A501/19/203 19:4	Beryllium, Total	0.90	P1	mg/kg	0.51	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Chromium, Total15.7P1mg/sg1.0SW846 6020A501/19/2023 19.42RMDE1Cobalt, Total13.0P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Copper, Total15.8P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Iron, Total30200P1mg/kg2.5.6SW846 6020A501/19/2023 19.42RMDE1Lead, Total15.5P1mg/kg51.2SW846 6020A501/19/2023 19.42RMDE1Magnesium, Total1890P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Magnesium, Total1120P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Magnesium, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Nickel, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Selenium, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Selenium, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Selenium, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19.42RMDE1Selenium, TotalNDND,P1mg/kg1.0SW846 6020A5 <td>Cadmium, Total</td> <td>ND</td> <td>ND,P1</td> <td>mg/kg</td> <td>0.51</td> <td>SW846 6020A</td> <td>5</td> <td>01/19/2023 19:42</td> <td>RMD</td> <td>E1</td>	Cadmium, Total	ND	ND,P1	mg/kg	0.51	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Cobalt, Total13.0P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Copper, Total15.8P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Iron, Total30200P1mg/kg25.6SW846 6020A501/19/2023 19:42RMDE1Lead, Total15.5P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Magnesium, Total1890P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Magnese, Total1120P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Marganese, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Nickel, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Potassium, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND,P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND,P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Sodium, TotalNDND,P1mg/kg51.2SW846 6020A5<	Calcium, Total	1990	P1	mg/kg	51.2	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Copper, Total15.8P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Iron, Total30200P1mg/kg25.6SW846 6020A501/19/2023 19:42RMDE1Lead, Total15.5P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Magnessium, Total1890P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Magnesse, Total1120P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Mercury, TotalNDND.P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Nickel, Total25.3P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Nickel, Total25.3P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Selenium, Total1300P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Selenium, Total1300P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND.P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND.P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Soldium, TotalNDND.P1mg/kg2.6SW846 6020A50	Chromium, Total	15.7	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Iron, Total30200P1mg/kg25.6SW846 6020A501/19/2023 19:42RMDE1Lead, Total15.5P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Magnesium, Total1890P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Manganese, Total1120P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Mickel, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Potassium, Total25.3P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Potassium, Total1300P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Silver, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Silver, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Soldium, TotalNDND,P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1TotalNDND,P1mg/kg51.2SW846 6020A501/	Cobalt, Total	13.0	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Lead, Total15.5P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Magnesium, Total1890P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Manganese, Total1120P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Mercury, TotalNDND,P1mg/kg0.060SW846 7471B101/19/2023 19:42RMDE1Nickel, Total25.3P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Potassium, Total1300P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Silver, TotalNDND,P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Silver, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Silver, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Silver, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Silver, TotalNDND,P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Thallium, TotalNDND,P1mg/kg0.51SW846 6020A5 <td>Copper, Total</td> <td>15.8</td> <td>P1</td> <td>mg/kg</td> <td>2.6</td> <td>SW846 6020A</td> <td>5</td> <td>01/19/2023 19:42</td> <td>RMD</td> <td>E1</td>	Copper, Total	15.8	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Magnasiun, Total1890P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Manganese, Total1120P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Mercury, TotalNDND.P1mg/kg0.060SW846 7471B101/19/2023 19:42RMDE1Nickel, Total25.3P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Potassium, Total1300P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND.P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND.P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Soliver, TotalNDND.P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Soliver, TotalNDND.P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Soliver, TotalNDND.P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Soliver, TotalNDND.P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Soliver, TotalNDND.P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Thallium, TotalNDND,P1mg/kg2.4Calculation <td>Iron, Total</td> <td>30200</td> <td>P1</td> <td>mg/kg</td> <td>25.6</td> <td>SW846 6020A</td> <td>5</td> <td>01/19/2023 19:42</td> <td>RMD</td> <td>E1</td>	Iron, Total	30200	P1	mg/kg	25.6	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Manganese, Total1120P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Mercury, TotalNDND, P1mg/kg0.060SW846 7471B101/19/2023 19:42RMDENickel, Total25.3P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Potassium, Total1300P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND, P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Silver, TotalNDND, P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Solium, TotalNDND, P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Thallium, TotalNDND, P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Thallium, TotalNDND, P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Thallium, TotalNDND, P1mg/kg0.51SW846 6020A501/19/2023 19:42RMDE1Trivalent Chromium15.7P1mg/kg2.4Calculation101/23/2023 11:55CWEVanadium, Total21.9P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1	Lead, Total	15.5	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Mercury, TotalNDND,P1mg/kg0.060SW846 7471B101/19/2023 15:56WDAENickel, Total25.3P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Potassium, Total1300P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Silver, TotalNDND,P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Sodium, TotalNDND,P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Sodium, TotalNDND,P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Thallium, TotalNDND,P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Trivalent Chromium15.7P1mg/kg0.51SW846 6020A501/19/2023 19:42RMDE1Trivalent Chromium, Total15.7P1mg/kg2.4Calculation101/23/2023 11:55CWEVanadium, Total21.9P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1E1SUB <td>Magnesium, Total</td> <td>1890</td> <td>P1</td> <td>mg/kg</td> <td>51.2</td> <td>SW846 6020A</td> <td>5</td> <td>01/19/2023 19:42</td> <td>RMD</td> <td>E1</td>	Magnesium, Total	1890	P1	mg/kg	51.2	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Nickel, Total25.3P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Potassium, Total1300P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Silver, TotalNDND,P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Sodium, TotalNDND,P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Thallium, TotalNDND,P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Trivalent Chromium15.7P1mg/kg0.51SW846 6020A501/19/2023 11:55CWEVanadium, Total21.9P1mg/kg1.0SW846 6020A501/19/2023 11:55CWE	Manganese, Total	1120	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Potassium, Total1300P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Selenium, TotalNDND,P1mg/kg2.6SW846 6020A501/19/2023 19:42RMDE1Silver, TotalNDND,P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1Sodium, TotalNDND,P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Thallium, TotalNDND,P1mg/kg51.2SW846 6020A501/19/2023 19:42RMDE1Trivalent Chromium15.7P1mg/kg2.4Calculation101/23/2023 11:55CWEVanadium, Total21.9P1mg/kg1.0SW846 6020A501/19/2023 19:42RMDE1	Mercury, Total	ND	ND,P1	mg/kg	0.060	SW846 7471B	1	01/19/2023 15:56	WDA	Е
Selenium, Total         ND         ND,P1         mg/kg         2.6         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Silver, Total         ND         ND,P1         mg/kg         1.0         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Sodium, Total         ND         ND,P1         mg/kg         51.2         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Thallium, Total         ND         ND,P1         mg/kg         51.2         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Thallium, Total         ND         ND,P1         mg/kg         0.51         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Trivalent Chromium         15.7         P1         mg/kg         2.4         Calculation         1         01/23/2023 11:55         CW         E           Vanadium, Total         21.9         P1         mg/kg         1.0         SW846 6020A         5         01/19/2023 19:42         RMD         E1	Nickel, Total	25.3	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Silver, Total         ND         ND,P1         mg/kg         1.0         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Sodium, Total         ND         ND         mg/kg         51.2         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Thallium, Total         ND         ND,P1         mg/kg         0.51         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Trivalent Chromium         15.7         P1         mg/kg         2.4         Calculation         1         01/23/2023 11:55         CW         E           Vanadium, Total         21.9         P1         mg/kg         1.0         SW846 6020A         5         01/19/2023 19:42         RMD         E1	Potassium, Total	1300	P1	mg/kg	51.2	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Sodium, Total         ND         ND,P1         mg/kg         51.2         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Thallium, Total         ND         ND,P1         mg/kg         0.51         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Trivalent Chromium         15.7         P1         mg/kg         2.4         Calculation         1         01/23/2023 11:55         CW         E           Vanadium, Total         21.9         P1         mg/kg         1.0         SW846 6020A         5         01/19/2023 19:42         RMD         E1	Selenium, Total	ND	ND,P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Thallium, Total         ND         ND,P1         mg/kg         0.51         SW846 6020A         5         01/19/2023 19:42         RMD         E1           Trivalent Chromium         15.7         P1         mg/kg         2.4         Calculation         1         01/23/2023 11:55         CW         E           Vanadium, Total         21.9         P1         mg/kg         1.0         SW846 6020A         5         01/19/2023 19:42         RMD         E1	Silver, Total	ND	ND,P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Trivalent Chromium         15.7         P1         mg/kg         2.4         Calculation         1         01/23/2023 11:55         CW         E           Vanadium, Total         21.9         P1         mg/kg         1.0         SW846 6020A         5         01/19/2023 19:42         RMD         E1	Sodium, Total	ND	ND,P1	mg/kg	51.2	SW846 6020A	5	01/19/2023 19:42	RMD	E1
Vanadium, Total         21.9         P1         mg/kg         1.0         SW846 6020A         5         01/19/2023 19:42         RMD         E1	Thallium, Total	ND	ND,P1	mg/kg	0.51	SW846 6020A	5	01/19/2023 19:42	RMD	E1
	Trivalent Chromium	15.7	P1	mg/kg	2.4	Calculation	1	01/23/2023 11:55	CW	Е
Zinc, Total 88.1 P1 mg/kg 2.6 SW846 6020A 5 01/19/2023 19:42 RMD E1	Vanadium, Total	21.9	P1	mg/kg	1.0	SW846 6020A	5	01/19/2023 19:42	RMD	E1
	Zinc, Total	88.1	P1	mg/kg	2.6	SW846 6020A	5	01/19/2023 19:42	RMD	E1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	3.8	SW846 8260B	1	01/18/2023 17:41	TMP	В
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	3.8	SW846 8260B	1	01/18/2023 17:41	TMP	В
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	3.8	SW846 8260B	1	01/18/2023 17:41	TMP	В
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
2-Butanone	ND	ND,P1	ug/kg	7.7	SW846 8260B	1	01/18/2023 17:41	TMP	В
2-Hexanone	ND	ND,P1	ug/kg	7.7	SW846 8260B	1	01/18/2023 17:41	TMP	В
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	7.7	SW846 8260B	1	01/18/2023 17:41	TMP	В
Acetone	ND	ND,P1	ug/kg	7.7	SW846 8260B	1	01/18/2023 17:41	TMP	В



Client Sample ID Lab Sample ID SB-10-4-6

3283084002

Collected ( Lab Receipt (

01/13/2023 09:15 01/14/2023 08:42

## **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Bromochloromethane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Bromodichloromethane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Bromoform	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Bromomethane	ND	ND,16,P 1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Carbon Disulfide	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Chlorobenzene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Chlorodibromomethane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Chloroethane	ND	ND,P1	ug/kg	3.8	SW846 8260B	1	01/18/2023 17:41	TMP	В
Chloroform	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Chloromethane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
cis-1,3-Dichloropropene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Cyclohexane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Ethylbenzene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Freon 113	ND	ND,17,1 8,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Isopropylbenzene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Methyl acetate	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Methyl cyclohexane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Methyl t-Butyl Ether	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Methylene Chloride	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
mp-Xylene	ND	ND,P1	ug/kg	3.1	SW846 8260B	1	01/18/2023 17:41	TMP	В
o-Xylene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Styrene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Tetrachloroethene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Toluene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Total Xylenes	ND	ND,P1	ug/kg	4.6	SW846 8260B	1	01/18/2023 17:41	TMP	В
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
trans-1,3-Dichloropropene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Trichloroethene	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В
Vinyl Chloride	ND	ND,P1	ug/kg	1.5	SW846 8260B	1	01/18/2023 17:41	TMP	В

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	88.8%	56 - 124	01/18/2023 17:41	
4-Bromofluorobenzene	460-00-4	81.6 %	51 - 128	01/18/2023 17:41	
Dibromofluoromethane	1868-53-7	68 %	62 - 123	01/18/2023 17:41	
Toluene-d8	2037-26-5	81.1%	59 - 131	01/18/2023 17:41	

## WET CHEMISTRY

<u>Compound</u>	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
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Client Sample ID	SB-10-4-6	Collected	01/13/2023 09:15
Lab Sample ID	3283084002	Lab Receipt	01/14/2023 08:42

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.4	SW846 7196A	1	01/19/2023 11:40	AKH	E
Moisture	17.4	P1	%	0.1	S2540G-11	1	01/18/2023 13:20	NXL	D
Total Solids	82.6	P1	%	0.1	S2540G-11	1	01/18/2023 13:20	NXL	D



Client Sample ID	SB-09-0-2	Collected	01/13/2023 09:30
Lab Sample ID	3283084003	Lab Receipt	01/14/2023 08:42

## METALS

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Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<u>Dilution</u>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	20900	P1,S4	mg/kg	43.4	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Antimony, Total	ND	ND,11,2 9,P1,S4	mg/kg	1.1	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Arsenic, Total	3.6	P1,S4	mg/kg	1.6	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Barium, Total	444	P1,S4	mg/kg	2.7	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Beryllium, Total	3.3	P1,S4	mg/kg	0.54	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Cadmium, Total	ND	ND,P1,S 4	mg/kg	0.54	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Calcium, Total	120000	P1,S4	mg/kg	54.2	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Chromium, Total	13.0	P1,S4	mg/kg	1.1	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Cobalt, Total	ND	ND,P1,S 4	mg/kg	2.7	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Copper, Total	7.2	P1,S4	mg/kg	2.7	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Iron, Total	8710	P1,S4	mg/kg	27.1	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Lead, Total	124	P1,S4	mg/kg	1.1	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Magnesium, Total	22000	P1,S4	mg/kg	54.2	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Manganese, Total	1660	P1,S4	mg/kg	2.7	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Mercury, Total	ND	ND,P1,S 4	mg/kg	0.051	SW846 7471B	1	01/19/2023 15:59	WDA	Е
Nickel, Total	12.0	P1,S4	mg/kg	2.7	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Potassium, Total	1660	P1,S4	mg/kg	54.2	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Selenium, Total	ND	ND,14,P 1,S4	mg/kg	2.7	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Silver, Total	ND	ND,P1,S 4	mg/kg	1.1	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Sodium, Total	642	P1,S4	mg/kg	54.2	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Thallium, Total	ND	ND,P1,S 4	mg/kg	0.54	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Trivalent Chromium	13.0	P1,S4	mg/kg	2.1	Calculation	1	01/23/2023 11:56	CW	Е
Vanadium, Total	17.0	P1,S4	mg/kg	1.1	SW846 6020A	5	01/19/2023 19:44	RMD	E1
Zinc, Total	49.7	P1,S4	mg/kg	2.7	SW846 6020A	5	01/19/2023 19:44	RMD	E1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
1,1,2,2-Tetrachloroethane	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
1,1,2-Trichloroethane	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
1,1-Dichloroethane	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
1,1-Dichloroethene	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
1,2,3-Trichlorobenzene	ND	ND,P1,S	ug/kg	3.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
1,2,4-Trichlorobenzene	ND	ND,P1,S 4	ug/kg	3.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
1,2-Dibromo-3-chloropropane	ND	ND,P1,S 4	ug/kg	3.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
1,2-Dibromoethane	ND	ND,P1,S	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
1,2-Dichlorobenzene	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
1,2-Dichloroethane	ND	ND,P1,S	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
1,2-Dichloropropane	ND	ND,P1,S	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
1,3-Dichlorobenzene	ND	4 ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В



 Client Sample ID
 SB-09-0-2
 Collected
 01/13/2023 09:30

 Lab Sample ID
 3283084003
 Lab Receipt
 01/14/2023 08:42

## **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,4-Dichlorobenzene	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
2-Butanone	ND	ND,P1,S 4	ug/kg	6.6	SW846 8260B	1	01/19/2023 14:51	TMP	В
2-Hexanone	ND	ND,P1,S 4	ug/kg	6.6	SW846 8260B	1	01/19/2023 14:51	TMP	В
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1,S 4	ug/kg	6.6	SW846 8260B	1	01/19/2023 14:51	TMP	В
Acetone	8.2	P1,S4	ug/kg	6.6	SW846 8260B	1	01/19/2023 14:51	TMP	В
Benzene	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Bromochloromethane	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Bromodichloromethane	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Bromoform	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Bromomethane	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Carbon Disulfide	8.9	P1,S4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Carbon Tetrachloride	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Chlorobenzene	ND	ND,P1,S 4	-9/19	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Chlorodibromomethane	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Chloroethane	ND	ND,P1,S 4	ug/kg	3.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Chloroform	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Chloromethane	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
cis-1,2-Dichloroethene	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
cis-1,3-Dichloropropene	ND	ч ND,26,Р 1,S4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Cyclohexane	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Dichlorodifluoromethane	ND	ND,P1,S	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Ethylbenzene	ND	4 ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Freon 113	ND	ND,27,P	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Isopropylbenzene	ND	1,S4 ND,P1,S	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	в
Methyl acetate	ND	4 ND,P1,S	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Methyl cyclohexane	ND	4 ND,P1,S	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Methyl t-Butyl Ether	ND	4 ND,P1,S	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Methylene Chloride	ND	4 ND,P1,S		1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
mp-Xylene	ND	4 ND,P1,S	ug/kg	2.6	SW846 8260B	1	01/19/2023 14:51	TMP	в
o-Xylene	ND	4 ND,P1,S	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	в
Styrene	ND	4 ND,P1,S	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	в
Tetrachloroethene	ND	4 ND,P1,S		1.3	SW846 8260B	1	01/19/2023 14:51		в
Toluene	ND	4 ND,P1,S	0 0	1.3	SW846 8260B	1	01/19/2023 14:51		В
Total Xylenes	ND	4 ND,P1,S	3,3	3.9	SW846 8260B	1	01/19/2023 14:51		В
trans-1,2-Dichloroethene	ND	4 ND,P1,S	33	1.3	SW846 8260B	1	01/19/2023 14:51		В
	ND	4 ND,P1,S	33	1.3				TMP	
trans-1,3-Dichloropropene		4	ug/kg	1.0	SW846 8260B	1	01/19/2023 14:51		U



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Client Sample ID	SB-09-0-2	Collected	01/13/2023 09:30
Lab Sample ID	3283084003	Lab Receipt	01/14/2023 08:42

## **VOLATILE ORGANICS (cont.)**

1868-53-7

2037-26-5

Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
Trichloroethene	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Trichlorofluoromethane	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
Vinyl Chloride	ND	ND,P1,S 4	ug/kg	1.3	SW846 8260B	1	01/19/2023 14:51	TMP	В
SURROGATES									
<u>Compound</u>	CAS No			<u>Recovery</u>	Limits(%)	<u>Analysis</u>	Date/Time	Qualifier	<u>rs</u>
1,2-Dichloroethane-d4	17060-07-0			93.8%	56 - 124	01/19/2023	14:51		
4-Bromofluorobenzene	460-00-4			119 %	51 - 128	01/19/2023	14:51		

62 - 123

59 - 131

01/19/2023 14:51

01/19/2023 14:51

73.2%

102%

### WET CHEMISTRY

Dibromofluoromethane

Toluene-d8

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1,S 4	mg/kg	2.1	SW846 7196A	1	01/19/2023 11:40	AKH	Е
Moisture	8.7	P1,S4	%	0.1	S2540G-11	1	01/18/2023 13:20	NXL	D
Total Solids	91.3	P1,S4	%	0.1	S2540G-11	1	01/18/2023 13:20	NXL	D



Client Sample ID	SB-09-4-6	Collected	01/13/2023 09:45
Lab Sample ID	3283084004	Lab Receipt	01/14/2023 08:42

## METALS

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
Aluminum, Total	9650	P1,S5	mg/kg	40.8	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Antimony, Total	1.3	P1,S5	mg/kg	1.0	SW846 6020A	5	01/20/2023 15:00	RMD	E1
Arsenic, Total	9.8	P1,S5	mg/kg	1.5	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Barium, Total	122	P1,S5	mg/kg	2.5	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Beryllium, Total	0.78	P1,S5	mg/kg	0.51	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Cadmium, Total	ND	ND,P1,S 5	mg/kg	0.51	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Calcium, Total	2710	P1,S5	mg/kg	51.0	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Chromium, Total	15.9	P1,S5	mg/kg	1.0	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Cobalt, Total	9.7	P1,S5	mg/kg	2.5	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Copper, Total	24.2	P1,S5	mg/kg	2.5	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Iron, Total	32700	P1,S5	mg/kg	25.5	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Lead, Total	33.5	P1,S5	mg/kg	1.0	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Magnesium, Total	2000	P1,S5	mg/kg	51.0	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Manganese, Total	574	P1,S5	mg/kg	2.5	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Mercury, Total	0.25	P1,S5	mg/kg	0.048	SW846 7471B	1	01/19/2023 16:00	WDA	Е
Nickel, Total	19.3	P1,S5	mg/kg	2.5	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Potassium, Total	1580	P1,S5	mg/kg	51.0	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Selenium, Total	ND	ND,14,P 1,S5	mg/kg	2.5	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Silver, Total	ND	ND,P1,S 5	mg/kg	1.0	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Sodium, Total	57.5	P1,S5	mg/kg	51.0	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Thallium, Total	ND	ND,P1,S 5	mg/kg	0.51	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Trivalent Chromium	15.9	P1,S5	mg/kg	2.2	Calculation	1	01/23/2023 11:52	CW	Е
Vanadium, Total	23.2	P1,S5	mg/kg	1.0	SW846 6020A	5	01/19/2023 19:46	RMD	E1
Zinc, Total	53.3	P1,S5	mg/kg	2.5	SW846 6020A	5	01/19/2023 19:46	RMD	E1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1,S 5	ug/kg	1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
1,1,2,2-Tetrachloroethane	ND	ND,P1,S 5	ug/kg	1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
1,1,2-Trichloroethane	ND	ND,P1,S 5	ug/kg	1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
1,1-Dichloroethane	ND	ND,P1,S 5	ug/kg	1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
1,1-Dichloroethene	ND	ND,P1,S 5	ug/kg	1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
1,2,3-Trichlorobenzene	ND	ND,P1,S 5	ug/kg	2.7	SW846 8260B	1	01/19/2023 15:16	TMP	В
1,2,4-Trichlorobenzene	ND	ND,P1,S 5	ug/kg	2.7	SW846 8260B	1	01/19/2023 15:16	TMP	В
1,2-Dibromo-3-chloropropane	ND	ND,P1,S 5	ug/kg	2.7	SW846 8260B	1	01/19/2023 15:16	TMP	В
1,2-Dibromoethane	ND	ND,P1,S 5	ug/kg	1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
1,2-Dichlorobenzene	ND	ND,P1,S 5	ug/kg	1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
1,2-Dichloroethane	ND	ND,P1,S 5	ug/kg	1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
1,2-Dichloropropane	ND	ND,P1,S 5	ug/kg	1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
1,3-Dichlorobenzene	ND	5 ND,P1,S 5	ug/kg	1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В



01/13/2023 09:45

01/14/2023 08:42

#### Results

Client Sample IDSB-09-4-6CollectedLab Sample ID3283084004Lab Receipt

## **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	Flag Units	<u>s RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,4-Dichlorobenzene	ND	ND,P1,S ug/kų 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
2-Butanone	ND	ND,P1,S ug/kg	g 5.3	SW846 8260B	1	01/19/2023 15:16	TMP	В
2-Hexanone	ND	ND,P1,S ug/kg	g 5.3	SW846 8260B	1	01/19/2023 15:16	TMP	В
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1,S ug/kg 5	g 5.3	SW846 8260B	1	01/19/2023 15:16	TMP	В
Acetone	ND	ND,P1,S ug/kg	g 5.3	SW846 8260B	1	01/19/2023 15:16	TMP	В
Benzene	ND	ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Bromochloromethane	ND	ND,P1,S ug/kg	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Bromodichloromethane	ND	ND,P1,S ug/kg	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Bromoform	ND	ND,P1,S ug/kg	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Bromomethane	ND	ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Carbon Disulfide	ND	ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Carbon Tetrachloride	ND	ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Chlorobenzene	ND	ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Chlorodibromomethane	ND	ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Chloroethane	ND	ND,P1,S ug/kg 5	g 2.7	SW846 8260B	1	01/19/2023 15:16	TMP	В
Chloroform	ND	ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Chloromethane	ND	ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
cis-1,2-Dichloroethene	ND	ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
cis-1,3-Dichloropropene	ND	ND,26,P ug/kg 1,S5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Cyclohexane	ND	ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Dichlorodifluoromethane	ND	ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Ethylbenzene	ND	ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Freon 113	ND	ND,27,P ug/kg 1,S5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Isopropylbenzene	ND	ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Methyl acetate	ND	5 ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Methyl cyclohexane	ND	ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Methyl t-Butyl Ether	ND	ND,P1,S ug/kg	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Methylene Chloride	ND	5 ND,P1,S ug/kg 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
mp-Xylene	ND	ND,P1,S ug/kg	g 2.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
o-Xylene	ND	5 ND,P1,S ug/kų 5	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Styrene	ND	ND,P1,S ug/kg	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Tetrachloroethene	ND	5 ND,P1,S ug/kg	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Toluene	ND	5 ND,P1,S ug/kg	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Total Xylenes	ND	5 ND,P1,S ug/kų	g 3.2	SW846 8260B	1	01/19/2023 15:16	TMP	В
trans-1,2-Dichloroethene	ND	5 ND,P1,S ug/kg	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
trans-1,3-Dichloropropene	ND	5 ND,P1,S ug/kg	g 1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
		5 5	-					



Client Sample ID	SB-09-4-6	Collected	01/13/2023 09:45
Lab Sample ID	3283084004	Lab Receipt	01/14/2023 08:42

## VOLATILE ORGANICS (cont.)

<u>Compound</u>	<u>Result</u>	Flag Units	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Trichloroethene	ND	ND,P1,S ug/kg 5	1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Trichlorofluoromethane	ND	ND,P1,S ug/kg 5	1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
Vinyl Chloride	ND	ND,P1,S ug/kg 5	1.1	SW846 8260B	1	01/19/2023 15:16	TMP	В
SURROGATES								
Compound	CAS No		<u>Recovery</u>	Limits(%)	<u>Analysis</u>	Date/Time	<u>Qualifie</u>	rs
1,2-Dichloroethane-d4	17060-07-0		84.7%	56 - 124	01/19/2023	15:16		
			100.1/	51 100	01/10/0000	45.47		

1,2 Dientoroethane u4	17000 07 0	64.7 %		01/17/2020 10:10
4-Bromofluorobenzene	460-00-4	103 %	51 - 128	01/19/2023 15:16
Dibromofluoromethane	1868-53-7	66.5%	62 - 123	01/19/2023 15:16
Toluene-d8	2037-26-5	99.8%	59 - 131	01/19/2023 15:16

## WET CHEMISTRY

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1,S 5	mg/kg	2.2	SW846 7196A	1	01/19/2023 11:40	AKH	Е
Moisture	10.3	P1,S5	%	0.1	S2540G-11	1	01/18/2023 13:20	NXL	D
Total Solids	89.7	P1,S5	%	0.1	S2540G-11	1	01/18/2023 13:20	NXL	D



Client Sample ID	SB-08-0-2	Collected	01/13/2023 10:30
Lab Sample ID	3283084005	Lab Receipt	01/14/2023 08:42
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## METALS

<u>Compound</u>	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	9780	P1	mg/kg	39.3	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Antimony, Total	1.6	P1	mg/kg	0.98	SW846 6020A	5	01/20/2023 15:20	RMD	E1
Arsenic, Total	13.7	P1	mg/kg	1.5	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Barium, Total	148	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Beryllium, Total	0.95	P1	mg/kg	0.49	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Cadmium, Total	0.86	P1	mg/kg	0.49	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Calcium, Total	4100	P1	mg/kg	49.2	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Chromium, Total	29.9	P1	mg/kg	0.98	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Cobalt, Total	12.0	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Copper, Total	38.3	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Iron, Total	29900	P1	mg/kg	24.6	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Lead, Total	118	P1	mg/kg	0.98	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Magnesium, Total	1870	P1	mg/kg	49.2	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Manganese, Total	754	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Mercury, Total	0.17	P1	mg/kg	0.050	SW846 7471B	1	01/19/2023 16:01	WDA	Е
Nickel, Total	23.6	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Potassium, Total	1040	P1	mg/kg	49.2	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.5	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Silver, Total	ND	ND,P1	mg/kg	0.98	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Sodium, Total	ND	ND,P1	mg/kg	49.2	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Thallium, Total	ND	ND,P1	mg/kg	0.49	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Trivalent Chromium	29.6	P1	mg/kg	2.3	Calculation	1	01/23/2023 11:53	CW	Е
Vanadium, Total	21.7	P1	mg/kg	0.98	SW846 6020A	5	01/19/2023 19:48	RMD	E1
Zinc, Total	138	P1	mg/kg	2.5	SW846 6020A	5	01/19/2023 19:48	RMD	E1

### **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	3.6	SW846 8260B	1	01/19/2023 15:41	TMP	В
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	3.6	SW846 8260B	1	01/19/2023 15:41	TMP	В
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	3.6	SW846 8260B	1	01/19/2023 15:41	TMP	В
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
2-Butanone	ND	ND,P1	ug/kg	7.2	SW846 8260B	1	01/19/2023 15:41	TMP	В
2-Hexanone	ND	ND,P1	ug/kg	7.2	SW846 8260B	1	01/19/2023 15:41	TMP	В
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	7.2	SW846 8260B	1	01/19/2023 15:41	TMP	В
Acetone	ND	ND,P1	ug/kg	7.2	SW846 8260B	1	01/19/2023 15:41	TMP	В



Client Sample ID SB Lab Sample ID 32

SB-08-0-2 3283084005 Collected Lab Receipt

01/13/

01/13/2023 10:30 01/14/2023 08:42

## **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Bromochloromethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Bromodichloromethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Bromoform	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Bromomethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Carbon Disulfide	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Chlorobenzene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Chlorodibromomethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Chloroethane	ND	ND,P1	ug/kg	3.6	SW846 8260B	1	01/19/2023 15:41	TMP	В
Chloroform	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Chloromethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
cis-1,3-Dichloropropene	ND	ND,26,P 1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Cyclohexane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Ethylbenzene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Freon 113	ND	ND,27,P 1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
lsopropylbenzene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Methyl acetate	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Methyl cyclohexane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Methyl t-Butyl Ether	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Methylene Chloride	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
mp-Xylene	ND	ND,P1	ug/kg	2.9	SW846 8260B	1	01/19/2023 15:41	TMP	В
o-Xylene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Styrene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Tetrachloroethene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Toluene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Total Xylenes	ND	ND,P1	ug/kg	4.3	SW846 8260B	1	01/19/2023 15:41	TMP	В
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
trans-1,3-Dichloropropene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Trichloroethene	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В
Vinyl Chloride	ND	ND,P1	ug/kg	1.4	SW846 8260B	1	01/19/2023 15:41	TMP	В

#### SURROGATES

<u>Compound</u>	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	93.2%	56 - 124	01/19/2023 15:41	
4-Bromofluorobenzene	460-00-4	85.1%	51 – 128	01/19/2023 15:41	
Dibromofluoromethane	1868-53-7	70.1%	62 - 123	01/19/2023 15:41	
Toluene-d8	2037-26-5	82.7%	59 – 131	01/19/2023 15:41	

### WET CHEMISTRY

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
ALC is an effet world's brought and work diversified and discrete diversified. To be many static set of the static balance of the set									



Client Sample ID	SB-08-0-2	Collected	01/13/2023 10:30
Lab Sample ID	3283084005	Lab Receipt	01/14/2023 08:42

## WET CHEMISTRY (cont.)

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.3	SW846 7196A	1	01/19/2023 11:40	AKH	Е
Moisture	15.1	P1	%	0.1	S2540G-11	1	01/18/2023 13:20	NXL	D
Total Solids	84.9	P1	%	0.1	S2540G-11	1	01/18/2023 13:20	NXL	D



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        Client Sample ID
        SB-08-6-8
        Collected
        01/13/2023 10:35

        Lab Sample ID
        3283084006
        Lab Receipt
        01/14/2023 08:42
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### METALS

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Total	6190	P1	mg/kg	42.4	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Antimony, Total	ND	ND,11,2 9,P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Arsenic, Total	7.8	P1	mg/kg	1.6	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Barium, Total	77.5	P1	mg/kg	2.7	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Beryllium, Total	0.54	P1	mg/kg	0.53	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Cadmium, Total	ND	ND,P1	mg/kg	0.53	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Calcium, Total	1100	P1	mg/kg	53.0	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Chromium, Total	10.5	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Cobalt, Total	7.9	P1	mg/kg	2.7	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Copper, Total	10.8	P1	mg/kg	2.7	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Iron, Total	24300	P1	mg/kg	26.5	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Lead, Total	11.2	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Magnesium, Total	1310	P1	mg/kg	53.0	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Manganese, Total	541	P1	mg/kg	2.7	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Mercury, Total	1.3	P1	mg/kg	0.053	SW846 7471B	1	01/19/2023 16:14	WDA	Е
Nickel, Total	14.4	P1	mg/kg	2.7	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Potassium, Total	674	P1	mg/kg	53.0	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Selenium, Total	ND	ND,14,P 1	mg/kg	2.7	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Silver, Total	ND	ND,P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Sodium, Total	ND	ND,P1	mg/kg	53.0	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Thallium, Total	ND	ND,P1	mg/kg	0.53	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Trivalent Chromium	10.5	P1	mg/kg	2.3	Calculation	1	01/23/2023 11:57	CW	E
Vanadium, Total	15.2	P1	mg/kg	1.1	SW846 6020A	5	01/19/2023 19:51	RMD	E1
Zinc, Total	50.0	P1	mg/kg	2.7	SW846 6020A	5	01/19/2023 19:51	RMD	E1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
1,1,2-Trichloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
1,1-Dichloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
1,1-Dichloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	в
1,2,3-Trichlorobenzene	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
1,2,4-Trichlorobenzene	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/18/2023 19:20	TMP	в
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
1,2-Dibromoethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	в
1,2-Dichlorobenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
1,2-Dichloroethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	в
1,2-Dichloropropane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
1,3-Dichlorobenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
1,4-Dichlorobenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	в
2-Butanone	ND	ND,P1	ug/kg	6.5	SW846 8260B	1	01/18/2023 19:20	TMP	в
2-Hexanone	ND	ND,P1	ug/kg	6.5	SW846 8260B	1	01/18/2023 19:20	TMP	В
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/kg	6.5	SW846 8260B	1	01/18/2023 19:20	TMP	в
Acetone	ND	ND,P1	ug/kg	6.5	SW846 8260B	1	01/18/2023 19:20	TMP	В



**Client Sample ID** Lab Sample ID

SB-08-6-8 3283084006

01/13/2023 10:35 01/14/2023 08:42

Collected

Lab Receipt

## **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Bromochloromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Bromodichloromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Bromoform	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Bromomethane	ND	ND,16,P 1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Carbon Disulfide	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Carbon Tetrachloride	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Chlorobenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Chlorodibromomethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Chloroethane	ND	ND,P1	ug/kg	3.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Chloroform	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Chloromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
cis-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
cis-1,3-Dichloropropene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Cyclohexane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Dichlorodifluoromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Ethylbenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Freon 113	ND	ND,17,1 8,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Isopropylbenzene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Methyl acetate	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Methyl cyclohexane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Methyl t-Butyl Ether	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Methylene Chloride	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
mp-Xylene	ND	ND,P1	ug/kg	2.6	SW846 8260B	1	01/18/2023 19:20	TMP	В
o-Xylene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Styrene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Tetrachloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Toluene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Total Xylenes	ND	ND,P1	ug/kg	3.9	SW846 8260B	1	01/18/2023 19:20	TMP	В
trans-1,2-Dichloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
trans-1,3-Dichloropropene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Trichloroethene	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Trichlorofluoromethane	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В
Vinyl Chloride	ND	ND,P1	ug/kg	1.3	SW846 8260B	1	01/18/2023 19:20	TMP	В

#### SURROGATES

<u>Compound</u>	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	89%	56 - 124	01/18/2023 19:20	
4-Bromofluorobenzene	460-00-4	75.4%	51 – 128	01/18/2023 19:20	
Dibromofluoromethane	1868-53-7	67.6%	62 - 123	01/18/2023 19:20	
Toluene-d8	2037-26-5	79.1%	59 – 131	01/18/2023 19:20	

### WET CHEMISTRY

2/3/2023 9:09 AM

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
ALS is one of the world's largest a	nd most dive	rsified an	alytical testing	g service providers. To learn ı	nore visit us at: ww	w.alsglobal.	com		



Client Sample ID	SB-08-6-8	Collected	01/13/2023 10:35
Lab Sample ID	3283084006	Lab Receipt	01/14/2023 08:42

## WET CHEMISTRY (cont.)

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/kg	2.3	SW846 7196A	1	01/19/2023 11:40	AKH	E
Moisture	13.0	P1	%	0.1	S2540G-11	1	01/18/2023 13:20	NXL	D
Total Solids	87.0	P1	%	0.1	S2540G-11	1	01/18/2023 13:20	NXL	D



## Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3282987001	SB-03-0-2	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3282987002	SB-03-8-10	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3282987003	SB-02-0-2	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3282987004	SB-02-10-12	SW846 6020A	SW846 3051A	
202001004		SW840 0020A SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3282987005	SR 04 0 2	SW846 6020A	SW846 3051A	
202907003	30-04-0-2	SW840 0020A SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
202007006	SP 04 14 16			
3282987006	SB-04-14-16	SW846 6020A SW846 7471B	SW846 3051A	
		SW846 8260B	SW846 7471B SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
000007007				
3282987007	SB-05-0-2	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation S2540G-11	N/A N/A	
		SZ540G-11 SW846 7196A	N/A SW846 3060A	
	00.05.4.0			
3282987008	SB-05-4-6	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3282987009	SB-06-0-2	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	

### Project 2022FMA SCI Pittsburgh Phase I

#### Workorder 3282987



Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3282987010	SB-06-8-10	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3282987011	SB-07-0-2	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3282987012	SB-07-2-4	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3282987013	SB-01-0-2	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3282987014	SB-01-10-12	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3282987015	SB-11-0-2	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3282987016	SB-11-6-8	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3282987017	SB-12-0-2	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3282987018	SB-12-10-12	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	

### Project 2022FMA SCI Pittsburgh Phase I

#### Workorder 3282987



Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3282987019	SB-12-10-12D	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3283084001	SB-10-0-2	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3283084002	SB-10-4-6	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3283084003	SB-09-0-2	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3283084004	SB-09-4-6	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3283084005	SB-08-0-2	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	
3283084006	SB-08-6-8	SW846 6020A	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8260B	SW846 5035A	
		Calculation	N/A	
		S2540G-11	N/A	
		SW846 7196A	SW846 3060A	



### METALS

1	QC Ba	atch ———			$\overline{}$	Asso
	QC Batch	936329	Prep Method	SW846 3051A		328298700
	<u>Date</u>	01/18/2023 11:10	Analysis Method	SW846 6020A		328298700
	<u>Tech.</u>	JSE			)	328298700
						328298701

Associate	ed Samples		
3282987001	3282987002	3282987003	3282987004
3282987005	3282987006	3282987007	3282987008
3282987009	3282987010	3282987011	3282987012
3282987013	3282987014	3282987015	3282987016
3282987017	3282987018	3282987019	

Method Blank	3612065 (MB)	Created on 01/17/2023 12:11	For QC Batch <u>936329</u>

#### RESULTS

Compound	CAS No		Result Units	<u>RDL</u>	Qualifiers
Aluminum, Total	7429-90-5	BLK	ND mg/kg	40.0	ND
Antimony, Total	7440-36-0	BLK	ND mg/kg	1.0	ND
Arsenic, Total	7440-38-2	BLK	ND mg/kg	1.5	ND
Barium, Total	7440-39-3	BLK	ND mg/kg	2.5	ND
Beryllium, Total	7440-41-7	BLK	ND mg/kg	0.50	ND
Cadmium, Total	7440-43-9	BLK	ND mg/kg	0.50	ND
Calcium, Total	7440-70-2	BLK	ND mg/kg	50.0	ND
Chromium, Total	7440-47-3	BLK	ND mg/kg	1.0	ND
Cobalt, Total	7440-48-4	BLK	ND mg/kg	2.5	ND
Copper, Total	7440-50-8	BLK	ND mg/kg	2.5	ND
Iron, Total	7439-89-6	BLK	ND mg/kg	25.0	ND
Lead, Total	7439-92-1	BLK	ND mg/kg	1.0	ND
Magnesium, Total	7439-95-4	BLK	ND mg/kg	50.0	ND
Manganese, Total	7439-96-5	BLK	ND mg/kg	2.5	ND
Nickel, Total	7440-02-0	BLK	ND mg/kg	2.5	ND
Potassium, Total	7440-09-7	BLK	ND mg/kg	50.0	ND
Selenium, Total	7782-49-2	BLK	ND mg/kg	2.5	ND
Silver, Total	7440-22-4	BLK	ND mg/kg	1.0	ND
Sodium, Total	7440-23-5	BLK	ND mg/kg	50.0	ND
Thallium, Total	7440-28-0	BLK	ND mg/kg	0.50	ND
Vanadium, Total	7440-62-2	BLK	ND mg/kg	1.0	ND
Zinc, Total	7440-66-6	BLK	ND mg/kg	2.5	ND

Lab Control Standard

3612066 (LCS2)

Created on 01/17/2023 12:11

For QC Batch 936329

#### RESULTS

<u>Compound</u> Aluminum, Total	<u>CAS No</u> 7429-90-5	LCS	<u>Result</u> (mg/kg) 208	<u>Orig.</u> <u>Result</u> (mg/kg)	<u>Spk</u> <u>Added</u> (mg/kg) 200	<u>Rec.</u> (%) 104	<u>Limits (%)</u> 80 - 120	<u>RPD Limit (%)</u>	<u>Qualifiers</u>
Antimony, Total	7440-36-0	LCS	23.50		20	118	80 - 120		
Arsenic, Total	7440-38-2	LCS	21.70		20	109	80 - 120		
Barium, Total	7440-39-3	LCS	204		200	102	80 - 120		
Beryllium, Total	7440-41-7	LCS	21		20	105	80 - 120		
Cadmium, Total	7440-43-9	LCS	20.20		20	101	80 - 120		
Calcium, Total	7440-70-2	LCS	214		200	107	80 - 120		
Chromium, Total	7440-47-3	LCS	21.20		20	106	80 - 120		



### **METALS** (cont.)

#### RESULTS

Compound	CAS No		<u>Result</u> (mg/kg)	<u>Orig.</u> <u>Result</u> (mg/kg)	<u>Spk</u> Added	<u>Rec.</u> (%)	Limits (%)	RPD Limit (%)	Qualifiers
Cobalt, Total	7440-48-4	LCS	20.50	<u>(mg/kg)</u>	<u>(mg/kg)</u> 20	102	80 - 120	<u></u>	duamere
Copper, Total	7440-50-8	LCS	21		20	105	80 - 120		
Iron, Total	7439-89-6	LCS	230		200	115	80 - 120		
Lead, Total	7439-92-1	LCS	21		20	105	80 - 120		
Magnesium, Total	7439-95-4	LCS	211		200	106	80 - 120		
Manganese, Total	7439-96-5	LCS	21.20		20	106	80 - 120		
Nickel, Total	7440-02-0	LCS	21.10		20	106	80 - 120		
Potassium, Total	7440-09-7	LCS	209		200	105	80 - 120		
Selenium, Total	7782-49-2	LCS	21.90		20	109	80 - 120		
Silver, Total	7440-22-4	LCS	10.30		10	103	80 - 120		
Sodium, Total	7440-23-5	LCS	214		200	107	80 - 120		
Thallium, Total	7440-28-0	LCS	21		20	105	80 - 120		
Vanadium, Total	7440-62-2	LCS	21.10		20	106	80 - 120		
Zinc, Total	7440-66-6	LCS	207		200	104	80 - 120		

Matrix Spike

3612067 (MS2)

3282987001

For QC Batch 936329

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Matrix Spike Duplicate	3612068	(MSD2)	3282987001	For QC Batch	936329

#### RESULTS

Compound	CAS No		<u>Result</u> (mg/kg)	<u>Orig.</u> <u>Result</u> (mg/kg)	<u>Spk</u> <u>Added</u> (mg/kg)	<u>Rec.</u> (%)	Limits (%)	RPD Limit (%)	<u>Qualifiers</u>
Aluminum, Total	7429-90-5	MS	11200	10300	181	NC	75 - 125		
Aluminum, Total	7429-90-5	MSD	10100	10300	195	NC	75 - 125	RPD <u>10.20</u> (Max-20)	
Antimony, Total	7440-36-0	MS	21	0.66	18.10	112	75 - 125		
Antimony, Total	7440-36-0	MSD	22.60	0.66	19.50	113	75 - 125	RPD <u>7.57</u> (Max-20)	
Arsenic, Total	7440-38-2	MS	23.90	11.10	18.10	70.5*	75 - 125		
Arsenic, Total	7440-38-2	MSD	28	11.10	19.50	86.6	75 - 125	RPD <u>15.90</u> (Max-20)	
Barium, Total	7440-39-3	MS	340	122	181	120	75 - 125		
Barium, Total	7440-39-3	MSD	336	122	195	110	75 - 125	RPD <u>1.14</u> (Max-20)	
Beryllium, Total	7440-41-7	MS	19.60	1.20	18.10	102	75 - 125		
Beryllium, Total	7440-41-7	MSD	20.70	1.20	19.50	100	75 - 125	RPD <u>5.58</u> (Max-20)	
Cadmium, Total	7440-43-9	MS	18.40	0.27	18.10	100	75 - 125		
Cadmium, Total	7440-43-9	MSD	19.90	0.27	19.50	101	75 - 125	RPD <u>7.75</u> (Max-20)	
Calcium, Total	7440-70-2	MS	57400	33900	181	NC	75 - 125		
Calcium, Total	7440-70-2	MSD	63900	33900	195	NC	75 - 125	RPD <u>10.80</u> (Max-20)	
Chromium, Total	7440-47-3	MS	27.20	12.70	18.10	80.2	75 - 125		
Chromium, Total	7440-47-3	MSD	31.80	12.70	19.50	98	75 - 125	RPD <u>15.60</u> (Max-20)	
Cobalt, Total	7440-48-4	MS	22	7.30	18.10	81.2	75 - 125		
Cobalt, Total	7440-48-4	MSD	24	7.30	19.50	85.6	75 - 125	RPD <u>8.75</u> (Max-20)	
Copper, Total	7440-50-8	MS	31.10	18.70	18.10	68.3*	75 - 125		
Copper, Total	7440-50-8	MSD	39	18.70	19.50	104	75 - 125	RPD <u>22.80*</u> (Max-20)	
Iron, Total	7439-89-6	MS	17800	24400	181	NC	75 - 125		
Iron, Total	7439-89-6	MSD	21800	24400	195	NC	75 - 125	RPD <u>20.30*</u> (Max-20)	



## **METALS** (cont.)

#### RESULTS

Compound	CAS No		<u>Result</u> (mg/kg)	<u>Orig.</u> <u>Result</u> (mg/kg)	<u>Spk</u> <u>Added</u> (mg/kg)	<u>Rec.</u> (%)	Limits (%)	RPD Limit (%)	<u>Qualifiers</u>
Lead, Total	7439-92-1	MS	103	87.30	18.10	NC	75 - 125		
Lead, Total	7439-92-1	MSD	102	87.30	19.50	NC	75 - 125	RPD <u>0.82</u> (Max-20)	
Magnesium, Total	7439-95-4	MS	6380	4450	181	NC	75 - 125		
Magnesium, Total	7439-95-4	MSD	9290	4450	195	NC	75 - 125	RPD <u>37.10*</u> (Max-20)	
Manganese, Total	7439-96-5	MS	848	673	18.10	NC	75 - 125		
Manganese, Total	7439-96-5	MSD	810	673	19.50	NC	75 - 125	RPD <u>4.55</u> (Max-20)	
Nickel, Total	7440-02-0	MS	27.60	14.80	18.10	71.1*	75 - 125		
Nickel, Total	7440-02-0	MSD	34.30	14.80	19.50	100	75 - 125	RPD <u>21.40*</u> (Max-20)	
Potassium, Total	7440-09-7	MS	1200	1170	181	NC	75 - 125		
Potassium, Total	7440-09-7	MSD	1280	1170	195	NC	75 - 125	RPD <u>5.86</u> (Max-20)	
Selenium, Total	7782-49-2	MS	18.90	0.91	18.10	99.7	75 - 125		
Selenium, Total	7782-49-2	MSD	20.30	0.91	19.50	99.7	75 - 125	RPD <u>7.16</u> (Max-20)	
Silver, Total	7440-22-4	MS	9	0.0460	9	99.2	75 - 125		
Silver, Total	7440-22-4	MSD	9.90	0.0460	9.70	101	75 - 125	RPD <u>9.25</u> (Max-20)	
Sodium, Total	7440-23-5	MS	451	163	181	159*	75 - 125		
Sodium, Total	7440-23-5	MSD	420	163	195	132*	75 - 125	RPD <u>7.21</u> (Max-20)	
Thallium, Total	7440-28-0	MS	18.30	0.0370	18.10	101	75 - 125		
Thallium, Total	7440-28-0	MSD	19.90	0.0370	19.50	102	75 - 125	RPD <u>8.53</u> (Max-20)	
Vanadium, Total	7440-62-2	MS	29.60	16.80	18.10	70.7*	75 - 125		
Vanadium, Total	7440-62-2	MSD	33.60	16.80	19.50	86.6	75 - 125	RPD <u>12.90</u> (Max-20)	
Zinc, Total	7440-66-6	MS	271	75.90	181	108	75 - 125		
Zinc, Total	7440-66-6	MSD	256	75.90	195	92.6	75 - 125	RPD <u>5.66</u> (Max-20)	

QC Batch -			Asso	ciated Samples		
<u>QC Batch</u> 936330 <u>Date</u> 01/18/202 <u>Tech.</u> JSE	Prep Method 11:10 <u>Analysis Meth</u>				3283084003	3283084004
latrix Spike	3612073	3 (MS2)	3282717001 (non-Proje	ct Sample)	For QC E	Batch <u>936330</u>
		0	shown below is a raw result and is This result is not a final value and			ing
Matrix Spike Duplicate	3612074	4 (MSD2)	3282717001 (non-Proje	ct Sample)	For QC E	Batch 936330

Compound	<u>CAS No</u>		<u>Result</u> (mg/kg)	<u>Orig.</u> <u>Result</u> (mg/kg)	<u>Spk</u> <u>Added</u> (mg/kg)	<u>Rec.</u> (%)	Limits (%)	RPD Limit (%)	<u>Qualifiers</u>
Arsenic, Total	7440-38-2	MS	20.20	1.30	16.80	112	75 - 125		
Arsenic, Total	7440-38-2	MSD	19.40	1.30	17.80	102	75 - 125	RPD <u>4.08</u> (Max-20)	
Barium, Total	7440-39-3	MS	228	43	168	110	75 - 125		
Barium, Total	7440-39-3	MSD	257	43	178	120	75 - 125	RPD <u>11.70</u> (Max-20)	
Cadmium, Total	7440-43-9	MS	16.90	0.0660	16.80	100	75 - 125		
Cadmium, Total	7440-43-9	MSD	17.80	0.0660	17.80	99.7	75 - 125	RPD <u>5.41</u> (Max-20)	
Chromium, Total	7440-47-3	MS	22.70	4.70	16.80	107	75 - 125		



## **METALS** (cont.)

<u>Compound</u> Chromium, Total Lead, Total Lead, Total	<u>CAS No</u> 7440-47-3 7439-92-1 7439-92-1	MSD MS MSD	Result (mg/kg) 22.20 29.50 26.20	<u>Orig.</u> <u>Result</u> (mg/kg) 4.70 10.70 10.70	<u>Spk</u> <u>Addeo</u> (mg/kc 17.80 16.80 17.80	<u>d R</u> (a) ( 9	<u>Rec.</u> (%) 98.2 112 36.8	<u>Limits (%)</u> 75 - 125 75 - 125 75 - 125	RPD RPD		( <u>%)</u> (Max-20) (Max-20)	Qualifiers
Selenium, Total	7782-49-2	MS	18	0.35	16.80		105	75 - 125			(	
Selenium, Total	7782-49-2	MSD	18.80	0.35	17.80		104	75 - 125	RPD	4 21	(Max-20)	
Silver, Total	7440-22-4	MS	8.50	0.0240	8.40		100	75 - 125		<u></u>	(max 20)	
Silver, Total	7440-22-4	MSD	9.10	0.0240	8.90		102	75 - 125	RPD	7.45	(Max-20)	
		-					-				( -/	
Method Blank		3612070	) (MB)		Cr	reated c	on <u>01/</u>	17/2023 12:14			For QC Batch	936330
RESULTS												
<u>Compound</u>		CAS No			Result	<u>Units</u>		<u>RDL</u>				<u>Qualifiers</u>
Aluminum, Total		7429-90-5	BLł	<	ND	mg/kg		40.0				ND
Antimony, Total		7440-36-0	BLł	<	ND	mg/kg		1.0				ND
Arsenic, Total		7440-38-2	BLł	<	ND	mg/kg		1.5				ND
Barium, Total		7440-39-3	BLł	<	ND	mg/kg		2.5				ND
Beryllium, Total		7440-41-7	BLł	<	ND	mg/kg		0.50				ND
Cadmium, Total		7440-43-9	BLł	<	ND	mg/kg		0.50				ND
Calcium, Total		7440-70-2	BLł	<	ND	mg/kg		50.0				ND
Chromium, Total		7440-47-3	BLł	<	ND	mg/kg		1.0				ND
Cobalt, Total		7440-48-4	BLł	<	ND	mg/kg		2.5				ND
Copper, Total		7440-50-8	BLł	<	ND	mg/kg		2.5				ND
Iron, Total		7439-89-6	BLł	<	ND	mg/kg		25.0				ND
Lead, Total		7439-92-1	BLł	<	ND	mg/kg		1.0				ND
Magnesium, Total		7439-95-4	BLł	<	ND	mg/kg		50.0				ND
Manganese, Total		7439-96-5	BLł	<	ND	mg/kg		2.5				ND
Nickel, Total		7440-02-0	BLł	<	ND	mg/kg		2.5				ND
Potassium, Total		7440-09-7	BLł	<	ND	mg/kg		50.0				ND
Selenium, Total		7782-49-2	BLł	<	ND	mg/kg		2.5				ND
Silver, Total		7440-22-4	BLł	<	ND	mg/kg		1.0				ND
Sodium, Total		7440-23-5	BLł	<	ND	mg/kg		50.0				ND
Thallium, Total		7440-28-0	BLł	<	ND	mg/kg		0.50				ND
Vanadium, Total		7440-62-2	BLł	<	ND	mg/kg		1.0				ND
Zinc, Total		7440-66-6	BLł	<	ND	mg/kg		2.5				ND

## RESULTS

Lab Control Standard

<u>Compound</u>	CAS No		<u>Result</u> (mg/kg)	<u>Orig.</u> <u>Result</u> (mg/kg)	<u>Spk</u> <u>Added</u> (mg/kg)	<u>Rec.</u> (%)	Limits (%)	RPD Limit (%)	<u>Qualifiers</u>
Aluminum, Total	7429-90-5	LCS	198		200	99	80 - 120		
Antimony, Total	7440-36-0	LCS	23		20	115	80 - 120		
Arsenic, Total	7440-38-2	LCS	21.20		20	106	80 - 120		
Barium, Total	7440-39-3	LCS	196		200	98.1	80 - 120		
Beryllium, Total	7440-41-7	LCS	19.60		20	97.9	80 - 120		

Created on 01/17/2023 12:14

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3612072 (LCS2)

For QC Batch 936330



## **METALS** (cont.)

#### RESULTS

<u>Compound</u>	CAS No		<u>Result</u> (mg/kg)	<u>Orig.</u> <u>Result</u> (mg/kg)	<u>Spk</u> <u>Added</u> (mg/kg)	<u>Rec.</u> (%)	Limits (%)	RPD Limit (%)	Qualifiers
Cadmium, Total	7440-43-9	LCS	19.70		20	98.6	80 - 120		
Calcium, Total	7440-70-2	LCS	188		200	93.8	80 - 120		
Chromium, Total	7440-47-3	LCS	19.70		20	98.7	80 - 120		
Cobalt, Total	7440-48-4	LCS	19.20		20	95.8	80 - 120		
Copper, Total	7440-50-8	LCS	19.60		20	98	80 - 120		
Iron, Total	7439-89-6	LCS	215		200	107	80 - 120		
Lead, Total	7439-92-1	LCS	19.90		20	99.5	80 - 120		
Magnesium, Total	7439-95-4	LCS	203		200	102	80 - 120		
Manganese, Total	7439-96-5	LCS	19.80		20	98.8	80 - 120		
Nickel, Total	7440-02-0	LCS	19.60		20	97.8	80 - 120		
Potassium, Total	7440-09-7	LCS	185		200	92.4	80 - 120		
Selenium, Total	7782-49-2	LCS	20.90		20	105	80 - 120		
Silver, Total	7440-22-4	LCS	10.10		10	101	80 - 120		
Sodium, Total	7440-23-5	LCS	192		200	95.8	80 - 120		
Thallium, Total	7440-28-0	LCS	19.80		20	99.1	80 - 120		
Vanadium, Total	7440-62-2	LCS	19.90		20	99.5	80 - 120		
Zinc, Total	7440-66-6	LCS	191		200	95.5	80 - 120		

QC Batch			$\overline{}$	Associate	ed Samples		
QC Batch 936955	Prep Method	SW846 7471B		3282987001	3282987002	3282987003	3282987004
Date 01/19/2023 10:45	Analysis Method	SW846 7471B		3282987005	3282987006	3282987007	3282987008
<u>Tech.</u> WDA				3282987009	3282987010	3282987011	3282987012
				3282987013			
Matrix Spike	3612962 (	(MS)	3278089001	(non-Project Sa	ample)	For QC B	atch <u>936955</u>
	****NOTE - The Oric Matrix Spike percen	,			, ,		ing
Matrix Spike Duplicate	3612963 (	MSD)	3278089001	(non-Project Sa	ample)	For QC B	atch <u>936955</u>
RESULTS		Orig.	Spk				
Compound CAS No		esult <u>Result</u> g/kg) (mg/kg)	Added	<u>Rec.</u> ( <u>%)</u> <u>Limits</u>	<u>(%)</u> <u>RPE</u>	<u> </u>	Qualifiers
Mercury, Total 7439-97-6	MS C	0.000540	0.24	107 80 -	120		
Mercury, Total 7439-97-6	MSD C	.29 0.000540	0.25	116 80 -	120 RPD	<u>9.85</u> (Max-20)	
Method Blank	3612960 (	MB)	Created	on <u>01/19/2023</u>	06:26	For QC B	atch <u>936955</u>
RESULTS							
Compound	CAS No		Result Units	R	DL		Qualifiers
Mercury, Total	7439-97-6	BLK	ND mg/kg	0.0	050		ND



## **METALS** (cont.)

Lab Control Standard		3612961	1 (LCS)		Creat	ted on <u>01</u>	/19/2023 06:26		For QC B	atch <u>936955</u>
RESULTS				<u>Orig.</u>	Spk_					
<u>Compound</u> Mercury, Total	<u>CAS No</u> 7439-97-6		<u>Result</u> (mg/kg) 0.48	<u>Result</u> (mg/kg)	<u>Added</u> (mg/kg) 0.40	<u>Rec.</u> (%) 120	<u>Limits (%)</u> 80 - 120	<u>RPD Li</u>	<u>imit (%)</u>	Qualifiers
Matrix Spike		3612964	4 (MS)		32829870	)10			For QC B	atch <u>936955</u>
l		****NOTE - The ( Matrix Spike perc								ng
Matrix Spike Duplicate		3612965			32829870					eatch <u>936955</u>
<i>RESULTS</i> Compound	CAS No		Result	<u>Orig.</u> <u>Result</u>	<u>Spk</u> Added	<u>Rec.</u> (%)	Limits (%)	RPD I i	.imit (%)	Qualifiers
Mercury, Total	7439-97-6		<u>(mg/kg)</u> 1.10	<u>(mg/kg)</u> 0.0210	<u>(mg/kg)</u> 0.96	113	80 - 120	<u>IXI 8</u>	<u>11iit (707</u>	<u>Quanter e</u>
Mercury, Total	7439-97-6		1.10	0.0210	0.91	113	80 - 120	RPD <u>4.</u>	<u>1.91</u> (Max-20)	
QC Batch QC Batch 9369 Date 01/19, Tech. WDA	/2023 10:45	<u>Prep Method</u> <u>Analysis Meth</u>		46 7471B 46 7471B		32829	987018 32829	2987015 3 2987019 3	3282987016 3283084001 3283084005	3282987017 3283084002 3283084006
Method Blank		3612966	6 (MB)		Creat	ted on <u>01</u>	/19/2023 06:29		For QC B	atch <u>936956</u>
RESULTS										
<u>Compound</u> Mercury, Total		<u>CAS No</u> 7439-97-6	BI	LK	Result Uni		<u>RDL</u> 0.050			Qualifiers ND
Mercury, Iotat		1437-71-0			,	kg	0.030			
Lab Control Standard		3612967	7 (LCS)		Creat	ted on <u>01</u>	/19/2023 06:29		For QC B	atch <u>936956</u>
RESULTS			Result	<u>Orig.</u> <u>Result</u>	<u>Spk</u> Added	Rec.				
Compound	CAS No		(mg/kg)	(mg/kg)	(mg/kg)	<u>(%)</u>	Limits (%)	<u>RPD Li</u> r	<u>imit (%)</u>	Qualifiers
Mercury, Total	7439-97-6	LCS	0.47		0.40	118	80 - 120			
Matrix Spike		3612968			32829870			the sturp		atch <u>936956</u>
		****NOTE - The ( Matrix Spike perc								ng
Matrix Spike Duplicate		3612969	9 (MSD)		32829870	)14			For QC Ba	atch <u>936956</u>



### **METALS** (cont.)

#### RESULTS

<u>Compound</u> Mercury, Total Mercury, Total	<u>CAS No</u> 7439-97-6 7439-97-6	MS MSD	<u>Result</u> (mg/kg) 0.98 0.97	<u>Orig.</u> <u>Result</u> (mg/kg) 0.0190 0.0190	<u>Spk</u> <u>Added</u> (mg/kg) 0.94 0.91	<u>Rec.</u> (%) 102 104	<u>Limits (%)</u> 80 - 120 80 - 120	<u>RPD Limi</u> RPD <u>1.07</u>		Qualifiers
Matrix Spike		361297	0 (MS)		32830840	002			For QC Batch	936956
		****NOTE - The Matrix Spike pe	0				· ·		0	
Matrix Spike Duplicate		361297	'1 (MSD)		32830840	002			For QC Batch	936956
RESULTS			Result	<u>Orig.</u> Result	<u>Spk</u> Added	<u>Rec.</u>				
<u>Compound</u>	CAS No		(mg/kg)	(mg/kg)	(mg/kg)	<u>(%)</u>	<u>Limits (%)</u>	<u>RPD Limi</u>	<u>t (%)</u>	<u>Qualifiers</u>
Mercury, Total	7439-97-6	MS	1.20	0.0240	0.98	115	80 - 120			
Mercury, Total	7439-97-6	MSD	1	0.0240	0.98	103	80 - 120	RPD <u>10.8</u>	<u>0</u> (Max-20)	



SW846 5035A

SW846 8260B

### **VOLATILE ORGANICS**

— QC В	atch ——
QC Batch	936310
<u>Date</u>	01/17/2023 10:22
Tech.	JTH

<u>Prep Method</u> Analysis Method

3611991

(MB)

Associate	ed Samples			
3282987001	3282987003	3282987004	3282987006	
3282987007	3282987008	3282987009	3282987010	
3282987011	3282987012	3282987013	3282987014	

Method	Blank
mourou	<b>D</b> iam.

Created on 01/17/2023 10:21

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For QC Batch 936310

#### RESULTS

Compound	CAS No		Result Units	RDL	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND ug/kg	2.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND ug/kg	2.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND ug/kg	2.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND ug/kg	2.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND ug/kg	2.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND ug/kg	5.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND ug/kg	5.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND ug/kg	5.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND ug/kg	2.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND ug/kg	2.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND ug/kg	2.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND ug/kg	2.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND ug/kg	2.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND ug/kg	2.0	ND
2-Butanone	78-93-3	BLK	ND ug/kg	10.0	ND
2-Hexanone	591-78-6	BLK	ND ug/kg	10.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND ug/kg	10.0	ND
Acetone	67-64-1	BLK	ND ug/kg	10.0	ND
Benzene	71-43-2	BLK	ND ug/kg	2.0	ND
Bromochloromethane	74-97-5	BLK	ND ug/kg	2.0	ND
Bromodichloromethane	75-27-4	BLK	ND ug/kg	2.0	ND
Bromoform	75-25-2	BLK	ND ug/kg	2.0	ND
Bromomethane	74-83-9	BLK	ND ug/kg	2.0	ND
Carbon Disulfide	75-15-0	BLK	ND ug/kg	2.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND ug/kg	2.0	ND
Chlorobenzene	108-90-7	BLK	ND ug/kg	2.0	ND
Chlorodibromomethane	124-48-1	BLK	ND ug/kg	2.0	ND
Chloroethane	75-00-3	BLK	ND ug/kg	5.0	ND
Chloroform	67-66-3	BLK	ND ug/kg	2.0	ND
Chloromethane	74-87-3	BLK	ND ug/kg	2.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND ug/kg	2.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND ug/kg	2.0	ND
Cyclohexane	110-82-7	BLK	ND ug/kg	2.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND ug/kg	2.0	ND
Ethylbenzene	100-41-4	BLK	ND ug/kg	2.0	ND
Freon 113	76-13-1	BLK	ND ug/kg	2.0	ND
Isopropylbenzene	98-82-8	BLK	ND ug/kg	2.0	ND
Methyl acetate	79-20-9	BLK	ND ug/kg	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND ug/kg	2.0	ND



### VOLATILE ORGANICS (cont.)

#### RESULTS

<u>Compound</u>	CAS No		Result Units	<u>RDL</u>	Qualifiers
Methyl t-Butyl Ether	1634-04-4	BLK	ND ug/kg	2.0	ND
Methylene Chloride	75-09-2	BLK	ND ug/kg	2.0	ND
mp-Xylene	108383/106423	BLK	ND ug/kg	4.0	ND
o-Xylene	95-47-6	BLK	ND ug/kg	2.0	ND
Styrene	100-42-5	BLK	ND ug/kg	2.0	ND
Tetrachloroethene	127-18-4	BLK	ND ug/kg	2.0	ND
Toluene	108-88-3	BLK	ND ug/kg	2.0	ND
Total Xylenes	1330-20-7	BLK	ND ug/kg	6.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND ug/kg	2.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND ug/kg	2.0	ND
Trichloroethene	79-01-6	BLK	ND ug/kg	2.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND ug/kg	2.0	ND
Vinyl Chloride	75-01-4	BLK	ND ug/kg	2.0	ND

#### SURROGATES

Compound	CAS No		<u>Result</u> (ug/kg)	Expected (ug/kg)	<u>Rec.</u> (%)	Limits (%)	Qualifiers		
1,2-Dichloroethane-d4	17060-07-0	BLK	25.80	30	86.1	56 - 124			
4-Bromofluorobenzene	460-00-4	BLK	23.40	30	78	51 - 128			
Dibromofluoromethane	1868-53-7	BLK	19.50	30	65.1	62 - 123			
Toluene-d8	2037-26-5	BLK	24.20	30	80.5	59 - 131			
Lab Control Standard 3611992		3611992 (L	.CS)	Crea	ated on <u>(</u>	01/17/2023 10:21	For QC Batch 936310		
Lab Control Std Duplicate 3611993 (LCSD)			CSD)	Created on 01/17/2023 10:21			For QC Batch <u>936310</u>		

#### RESULTS

Compound	CAS No		<u>Result</u> (ug/kg)	<u>Orig.</u> <u>Result</u> (ug/kg)	<u>Spk</u> <u>Added</u> (ug/kg)	<u>Rec.</u> (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	19.50		20	97.4	68 - 131		
1,1,1-Trichloroethane	71-55-6	LCSD	21		20	105	68 - 131	RPD <u>7.42</u> (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	LCS	23.70		20	118	72 - 134		
1,1,2,2-Tetrachloroethane	79-34-5	LCSD	25.10		20	126	72 - 134	RPD <u>5.81</u> (Max-40)	
1,1,2-Trichloroethane	79-00-5	LCS	22		20	110	79 - 123		
1,1,2-Trichloroethane	79-00-5	LCSD	22.90		20	114	79 - 123	RPD <u>3.74</u> (Max-40)	
1,1-Dichloroethane	75-34-3	LCS	23.10		20	116	74 - 131		
1,1-Dichloroethane	75-34-3	LCSD	25		20	125	74 - 131	RPD <u>7.63</u> (Max-40)	
1,1-Dichloroethene	75-35-4	LCS	20.20		20	101	59 - 139		
1,1-Dichloroethene	75-35-4	LCSD	21.80		20	109	59 - 139	RPD <u>7.63</u> (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	LCS	18.40		20	92.1	68 - 129		
1,2,3-Trichlorobenzene	87-61-6	LCSD	21.20		20	106	68 - 129	RPD <u>14.20</u> (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	LCS	14.20		20	70.8	63 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCSD	17.80		20	88.8	63 - 132	RPD <u>22.70</u> (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	LCS	16.90		20	84.6	52 - 151		
1,2-Dibromo-3-chloropropane	96-12-8	LCSD	19		20	95.2	52 - 151	RPD <u>11.80</u> (Max-40)	
1,2-Dibromoethane	106-93-4	LCS	18		20	90.2	76 - 127		
1,2-Dibromoethane	106-93-4	LCSD	19.30		20	96.7	76 - 127	RPD <u>6.96</u> (Max-40)	



### **VOLATILE ORGANICS (cont.)**

RESULTS

			<u>Result</u>	<u>Orig.</u> <u>Result</u>	<u>Spk</u> Added	<u>Rec.</u>			0.115
<u>Compound</u>	<u>CAS No</u>		<u>(ug/kg)</u>	<u>(ug/kg)</u>	<u>(ug/kg)</u>	<u>(%)</u>	Limits (%)	<u>RPD Limit (%)</u>	<u>Qualifiers</u>
1,2-Dichlorobenzene	95-50-1	LCS	16.40		20	82.2	75 - 126		
1,2-Dichlorobenzene	95-50-1	LCSD	18.70		20	93.5	75 - 126	RPD <u>12.90</u> (Max-40)	
1,2-Dichloroethane	107-06-2	LCS	23.30		20	117	69 - 132		
1,2-Dichloroethane	107-06-2	LCSD	24.50		20	122	69 - 132	RPD <u>4.90</u> (Max-40)	
1,2-Dichloropropane	78-87-5	LCS	23.20		20	116	78 - 131		
1,2-Dichloropropane	78-87-5	LCSD	24.70		20	124	78 - 131	RPD <u>6.19</u> (Max-40)	
1,3-Dichlorobenzene	541-73-1	LCS	18.90		20	94.7	72 - 127		
1,3-Dichlorobenzene	541-73-1	LCSD	21.50		20	108	72 - 127	RPD <u>12.70</u> (Max-40)	
1,4-Dichlorobenzene	106-46-7	LCS	18.10		20	90.5	72 - 126		
1,4-Dichlorobenzene	106-46-7	LCSD	20.70		20	103	72 - 126	RPD <u>13.30</u> (Max-40)	
2-Butanone	78-93-3	LCS	121		100	121	64 - 148		
2-Butanone	78-93-3	LCSD	129		100	129	64 - 148	RPD <u>5.73</u> (Max-40)	
2-Hexanone	591-78-6	LCS	118		100	118	62 - 147		
2-Hexanone	591-78-6	LCSD	125		100	125	62 - 147	RPD <u>5.53</u> (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	103		100	103	64 - 143		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCSD	109		100	109	64 - 143	RPD <u>5.97</u> (Max-40)	
Acetone	67-64-1	LCS	126		100	126	58 - 146		
Acetone	67-64-1	LCSD	143		100	143	58 - 146	RPD <u>12.10</u> (Max-40)	
Benzene	71-43-2	LCS	23		20	115	75 - 132	、	
Benzene	71-43-2	LCSD	24.70		20	123	75 - 132	RPD 6.77 (Max-40)	
Bromochloromethane	74-97-5	LCS	18.70		20	93.4	71 - 120		
Bromochloromethane	74-97-5	LCSD	20.10		20	101	71 - 120	RPD 7.40 (Max-40)	
Bromodichloromethane	75-27-4	LCS	17.10		20	85.3	74 - 127		
Bromodichloromethane	75-27-4	LCSD	18.30		20	91.5	74 - 127	RPD 6.93 (Max-40)	
Bromoform	75-25-2	LCS	15.30		20	76.3	68 - 131	(max 10)	
Bromoform	75-25-2	LCSD	16.50		20	82.5	68 - 131	RPD 7.82 (Max-40)	
Bromomethane	74-83-9	LCS	27.10		20	135	43 - 148	<u>1102</u> (max 40)	
Bromomethane	74-83-9	LCSD	27.10		20	135	43 - 148	RPD 1.63 (Max-40)	
			17					1105 (Max-40)	
Carbon Disulfide	75-15-0	LCS			20	85.2	47 - 144	RPD 7.38 (Max-40)	
Carbon Disulfide	75-15-0	LCSD	18.40		20	91.8	47 - 144	RPD <u>7.38</u> (Max-40)	
Carbon Tetrachloride	56-23-5	LCS	20.30		20	102	64 - 136		
Carbon Tetrachloride	56-23-5	LCSD	22.40		20	112	64 - 136	RPD <u>9.78</u> (Max-40)	
Chlorobenzene	108-90-7	LCS	18.90		20	94.3	76 - 125		
Chlorobenzene	108-90-7	LCSD	20.30		20	102	76 - 125	RPD <u>7.41</u> (Max-40)	
Chlorodibromomethane	124-48-1	LCS	16		20	80	75 - 124	//	
Chlorodibromomethane	124-48-1	LCSD	17.30		20	86.4	75 - 124	RPD <u>7.73</u> (Max-40)	
Chloroethane	75-00-3	LCS	14.40		20	72.1	1 - 141		
Chloroethane	75-00-3	LCSD	12.40		20	62	1 - 141	RPD <u>15.10</u> (Max-40)	
Chloroform	67-66-3	LCS	21.80		20	109	73 - 126		
Chloroform	67-66-3	LCSD	22.80		20	114	73 - 126	RPD <u>4.59</u> (Max-40)	
Chloromethane	74-87-3	LCS	27.90		20	140*	44 - 139		
Chloromethane	74-87-3	LCSD	29		20	145*	44 - 139	RPD <u>3.93</u> (Max-40)	
cis-1,2-Dichloroethene	156-59-2	LCS	23		20	115	75 - 128		
cis-1,2-Dichloroethene	156-59-2	LCSD	24.30		20	122	75 - 128	RPD <u>5.56</u> (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	LCS	11.10		20	55.4*	76 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCSD	12.10		20	60.6*	76 - 123	RPD <u>8.96</u> (Max-40)	
Cyclohexane	110-82-7	LCS	22.20		20	111	62 - 143		
Cyclohexane	110-82-7	LCSD	25.40		20	127	62 - 143	RPD <u>13.60</u> (Max-40)	
Dichlorodifluoromethane	75-71-8	LCS	23		20	115	16 - 152		



### VOLATILE ORGANICS (cont.)

#### RESULTS

1200270				<u>Orig.</u>	<u>Spk</u>	Rec.			
Compound	CAS No		<u>Result</u> (ug/kg)	Result	Added	<u>(%)</u>	Limits (%)	RPD Limit (%)	Qualifiers
Dichlorodifluoromethane	75-71-8	LCSD	<u>(ug/kg)</u> 26.80	<u>(ug/kg)</u>	<u>(ug/kg)</u> 20	134	<u>16 - 152</u>	RPD 15.40 (Max-40)	duamoro
Ethylbenzene	100-41-4	LCS	19.90		20	99.7	73 - 133	······································	
Ethylbenzene	100-41-4	LCSD	22.10		20	111	73 - 133	RPD 10.50 (Max-40)	
Freon 113	76-13-1	LCS	20.80		20	104	40 - 109	( , ,	
Freon 113	76-13-1	LCSD	26.40		20	132*	40 - 109	RPD <u>23.80</u> (Max-40)	
Isopropylbenzene	98-82-8	LCS	19.80		20	99.2	71 - 137		
Isopropylbenzene	98-82-8	LCSD	22.50		20	113	71 - 137	RPD <u>12.70</u> (Max-40)	
Methyl acetate	79-20-9	LCS	25.60		20	128	70 - 130		
Methyl acetate	79-20-9	LCSD	28.50		20	143*	70 - 130	RPD <u>11</u> (Max-40)	
Methyl cyclohexane	108-87-2	LCS	15.30		20	76.6	70 - 130		
Methyl cyclohexane	108-87-2	LCSD	20.20		20	101	70 - 130	RPD <u>27.30</u> (Max-40)	
Methyl t-Butyl Ether	1634-04-4	LCS	22.40		20	112	70 - 118		
Methyl t-Butyl Ether	1634-04-4	LCSD	26.20		20	131*	70 - 118	RPD <u>15.40</u> (Max-40)	
Methylene Chloride	75-09-2	LCS	20.90		20	105	68 - 133		
Methylene Chloride	75-09-2	LCSD	23.30		20	116	68 - 133	RPD <u>10.80</u> (Max-40)	
mp-Xylene	108383/106423	LCS	33.30		40	83.3	72 - 130		
mp-Xylene	108383/106423	LCSD	36.90		40	92.1	72 - 130	RPD <u>10.10</u> (Max-40)	
o-Xylene	95-47-6	LCS	15.70		20	78.7	75 - 129		
o-Xylene	95-47-6	LCSD	17.40		20	86.9	75 - 129	RPD <u>9.88</u> (Max-40)	
Styrene	100-42-5	LCS	18.10		20	90.7	77 - 130		
Styrene	100-42-5	LCSD	19.90		20	99.7	77 - 130	RPD <u>9.48</u> (Max-40)	
Tetrachloroethene	127-18-4	LCS	19.40		20	97.2	58 - 137		
Tetrachloroethene	127-18-4	LCSD	22.70		20	113	58 - 137	RPD <u>15.30</u> (Max-40)	
Toluene	108-88-3	LCS	18.30		20	91.5	73 - 129		
Toluene	108-88-3	LCSD	19.60		20	97.9	73 - 129	RPD <u>6.75</u> (Max-40)	
Total Xylenes	1330-20-7	LCS	49		60	81.7	73 - 130		
Total Xylenes	1330-20-7	LCSD	54.20		60	90.4	73 - 130	RPD <u>10.10</u> (Max-40)	
trans-1,2-Dichloroethene	156-60-5	LCS	20		20	99.9	66 - 133		
trans-1,2-Dichloroethene	156-60-5	LCSD	23		20	115	66 - 133	RPD <u>14.10</u> (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	LCS	12.20		20	61.1*	77 - 123		
trans-1,3-Dichloropropene	10061-02-6	LCSD	13.10		20	65.6*	77 - 123	RPD <u>7.19</u> (Max-40)	
Trichloroethene	79-01-6	LCS	19.90		20	99.6	72 - 129		
Trichloroethene	79-01-6	LCSD	22		20	110	72 - 129	RPD <u>10.10</u> (Max-40)	
Trichlorofluoromethane	75-69-4	LCS	24.60		20	123	40 - 130		
Trichlorofluoromethane	75-69-4	LCSD	26.10		20	130	40 - 130	RPD <u>6.01</u> (Max-40)	
Vinyl Chloride	75-01-4	LCS	26.10		20	130	53 - 141		
Vinyl Chloride	75-01-4	LCSD	27.20		20	136	53 - 141	RPD <u>4.18</u> (Max-40)	

#### SURROGATES

	040.1		<u>Result</u>	Expected	<u>Rec.</u>		
<u>Compound</u>	<u>CAS No</u>		<u>(ug/kg)</u>	<u>(ug/kg)</u>	<u>(%)</u>	<u>Limits (%)</u>	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	LCS	26.20	30	87.3	56 - 124	
1,2-Dichloroethane-d4	17060-07-0	LCSD	27.20	30	90.7	56 - 124	
4-Bromofluorobenzene	460-00-4	LCS	23.80	30	79.4	51 - 128	
4-Bromofluorobenzene	460-00-4	LCSD	24.90	30	82.9	51 - 128	
Dibromofluoromethane	1868-53-7	LCS	20.60	30	68.7	62 - 123	
Dibromofluoromethane	1868-53-7	LCSD	21.60	30	72	62 - 123	
Toluene-d8	2037-26-5	LCS	23.10	30	77	59 - 131	



## **VOLATILE ORGANICS (cont.)**

#### SURROGATES

Tokure-e8         207:24-5         LC5D         23:0         30         77.7         59 - 131           Matrix Spike         3612249         (MS)         3282987004         For QC Batch           ****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.         For QC Batch           RESULTS         Original Result         Spik         Edge         Edge <thedge< th="">         Edge         Edge         &lt;</thedge<>	<u>Qualifiers</u>
M***NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike parcent recoveries. This result is not a final value and cannot be used as such.           SESUES           Compound         CAS No         Result (uarkin)         Origin (uarkin)         Spided (uarkin)         Result (uarkin)         Spided (uarkin)         Result (uarkin)         Spided (uarkin)         Result (uarkin) <th></th>	
Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.           RESULTS           Compound         CAS No         Output full/info full/info         Spike Result         Spike (up/A)         Rep. (up/A)         Rep. (up/A)	936310
Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.           RESULTS           Compound         CAS No         Output full/info full/info         Spike Result         Spike (up/A)         Rep. (up/A)         Rep. (up/A)	
Compound         CAS No         Red Lubric         Red Lubric         Red Lubric         Red Lubric         Red Lubric         Red Lubric         Red Lubric           11.1-ficharesthane         71-54-5         M5         8.0         0         970         18         48         10           12.2-frichloresthane         79-05-5         M5         10.0         0.7         105         7.1         13           11-Dichloresthane         75-34-3         M5         10.00         9.70         106         7.4         131           12-Dichloresthane         75-34-3         M5         0.00         9.70         643         120           12-Dichloresteane         78-16-4         M5         6.50         0         9.70         7.67         7.63         120           12-Dichloresteane         10-82-1         M5         6.70         0         9.70         7.62         120           12-Dichloresteane         196-92-1         M5         7.00         9.70         7.62         120           12-Dichloresteane         196-92-1         M5         7.00         9.70         7.8         120           12-Dichloresteane         196-92-1         M5         7.00         9.70         7.2	
Compound         CAS No         Red Lubric         Red Lubric         Red Lubric         Red Lubric         Red Lubric         Red Lubric         Red Lubric           11.1-ficharesthane         71-54-5         M5         8.0         0         970         18         48         10           12.2-frichloresthane         79-05-5         M5         10.0         0.7         105         7.1         13           11-Dichloresthane         75-34-3         M5         10.00         9.70         106         7.4         131           12-Dichloresthane         75-34-3         M5         0.00         9.70         643         120           12-Dichloresteane         78-16-4         M5         6.50         0         9.70         7.67         7.63         120           12-Dichloresteane         10-82-1         M5         6.70         0         9.70         7.62         120           12-Dichloresteane         196-92-1         M5         7.00         9.70         7.62         120           12-Dichloresteane         196-92-1         M5         7.00         9.70         7.8         120           12-Dichloresteane         196-92-1         M5         7.00         9.70         7.2	
Compound CompoundCAS howResult (updkn)Added (updkn)Added (updkn)Added (updkn)PPD Limit (%) (PDPPD Limit (%)M.1-Trichlorosethane71-55-4MS11097088.868 - 13111.22-Trichlorosethane77-30-5MS10.10097010577 - 13211-Dichlorosethane75-34-3MS10.30097010674 - 13111-Dichlorosethane75-35-4MS6.5009706768 - 12912-A-Trichlorobenzene87-41-4MS6.50097067168 - 12912-Ja-Trichlorobenzene120-82-11MS6.70097062163 - 13212-Dichlorobenzene164-32-4MS8097082075 - 13212-Dichlorobenzene164-34-4MS7.80097082075 - 13212-Dichlorobenzene164-37-4MS7.80097010369 - 13212-Dichlorobenzene164-45-7MS7.80097010369 - 13212-Dichlorobenzene164-67MS970042.010742 - 14212-Dichlorobenzene164-67MS970048.010742 - 14212-Dichlorobenzene164-67MS970048.010742 - 14212-Dichlorobenzene191-85170048.017016 - 13212-Dichlorobenzene191-86<	
Compound         CAS No         Lasting (usakin)         (usakin) (usakin)         (usakin)	
L)1-Trichloroethane         71-55-6         MS         8.60         0         9700         88.8         48 - 131           L)2.2-Trichloroethane         77-30-5         MS         10         0         970         105         79 - 123           L)2.1-Trichloroethane         75-34-3         MS         10.30         0         970         106         74 - 131           L)-Dichorethane         75-35-4         MS         8.40         0         970         66.9         59 - 139           L2.3-Trichlorobenzene         87-61-6         MS         6.50         0         970         67.1         63 - 132           L2.4-Trichlorobenzene         120-82-1         MS         6.70         0         970         73.2         52 - 151           L2-Dibromoethane         106-93-4         MS         8         0         970         73.2         52 - 151           L2-Dibromoethane         107-06-2         MS         10         0         970         103         69 - 132           L2-Dichloroephane         78-75         MS         10.60         9.70         103         69 - 132           L2-Dichloroephane         78-173-1         MS         9.50         0         9.70         9.67	Qualifiers
J.JZirichloroethane       79-00-5       MS       10.10       0       9.70       105       79 - 123         J.JDickloroethane       75-34-3       MS       10.30       0       9.70       105       79 - 123         J.JDickloroethane       75-34-3       MS       8.40       0       9.70       86.9       59 - 139         J.2-Dickloroethane       87-61-6       MS       6.70       0       9.70       691       63 - 132         J.2-Dickloroethane       102-82-1       MS       6.70       0       9.70       691       63 - 132         J.2-Dickloroethane       104-93-4       MS       8       0       9.70       82.9       76 - 127         J.2-Dickloroethane       107-96-2       MS       10       0       9.70       103       69 - 132         J.2-Dickloroethane       107-96-2       MS       10       0       9.70       103       69 - 132         J.2-Dickloroethane       107-96-2       MS       10.0       9.70       103       69 - 132         J.2-Dickloroethane       107-96-2       MS       10.0       9.70       94.7       72 - 126         J.2-Dickloroethane       76-41.7       MS       920       0	
1.1       Li.1       Discretione       75-34-3       MS       10.30       0       9.70       106       74 - 131         1.1       Dichiorcethene       75-35-4       MS       8.40       0       9.70       86.9       59 - 139         1.2.3-Trichlorobenzene       87-61-6       MS       6.50       0       9.70       69.1       63 - 132         1.2-Lrichlorobenzene       120-82-1       MS       6.70       0       9.70       69.1       63 - 132         1.2-Dibromesthane       106-93-4       MS       7.00       0       9.70       82.9       76 - 127         1.2-Dichlorobenzene       95-50-1       MS       7.80       0       9.70       103       69 - 132         1.2-Dichlorobenzene       197-0-62       MS       10       0       9.70       109       78 - 131         1.2-Dichlorobenzene       541-73-1       MS       9.20       0       9.70       98.5       72 - 127         1.4-Dichlorobenzene       564-73       MS       51.70       0       48.40       107       64 - 148         2-Hexanone       591-78-6       MS       51.70       0       48.40       107       65 - 147         4-MethyL2-Penta	
L1-Dickloroethene         75-35-4         MS         8.40         0         9.70         86.9         59 - 139           L2,3-Tricklorobenzene         87-41-4         MS         6.50         0         9.70         67*         68 - 129           L2,4-Tricklorobenzene         120-82-1         MS         6.70         0         9.70         67.1         68 - 129           L2-Dibromo-3-chlaropropane         94-12-8         MS         7.10         0         9.70         62.2         15           L2-Dichlorobenzene         106-93-4         MS         8         0         9.70         82.9         76 - 127           L2-Dichlorobenzene         95-50-1         MS         7.80         0         9.70         103         69 - 132           L2-Dichlorobenzene         107-06-2         MS         10         0         9.70         103         69 - 132           L3-Dichlorobenzene         541-73-1         MS         9.20         0         9.70         94.7         72 - 126           L3-Bidrobrobenzene         106-46-7         MS         9.20         0         9.70         94.7         72 - 126           L4-Dichlorobenzene         106-46-7         MS         51.70         0	
12.3-Trichtorobenzene       87-61-6       MS       6.50       0       9.70       67*       68 - 129         12.4-Trichtorobenzene       120-82-1       MS       6.70       0       9.70       69.1       68 - 129         12.4-Trichtorobenzene       106-93-4       MS       8       0       9.70       73.2       52 - 151         12-Dichtorobenzene       106-93-4       MS       8       0       9.70       82.9       76 - 127         12-Dichtorobenzene       55-50-1       MS       7.80       0       9.70       103       69 - 132         12-Dichtorobenzene       78-87-5       MS       10.60       9.70       103       69 - 132         12-Dichtorobenzene       51-73       MS       10.60       9.70       98.5       72 - 127         12-Dichtorobenzene       106-4-7       MS       9.20       9.70       98.5       72 - 126         2-Butanone       78-93.3       MS       51.70       0       48.40       107       64 - 148         2-Hexanone       591-78-6       MS       61.30       2.80       48.40       107       72 - 126         2-Butanone       71-43-2       MS       10.30       0       9.70 <t< td=""><td></td></t<>	
12.4Trichlorobenzene         120-82-1         MS         6.70         0         9.70         69.1         63 - 132           12-Dibromosthane         106-93-4         MS         7.10         0         9.70         73.2         52 - 151           12-Dibromosthane         106-93-4         MS         8         0         9.70         82.7         76 - 127           12-Dichlorobenzene         95-50-1         MS         7.80         0         9.70         81         75 - 126           12-Dichlorobropropane         78-87-5         MS         10.40         0         9.70         109         78 - 131           12-Dichlorobropropane         78-87-5         MS         10.40         0         9.70         94.7         72 - 127           12-Dichlorobenzene         541-73-1         MS         9.20         9.70         94.7         72 - 127           12-Dichlorobenzene         106-46-7         MS         9.20         9.70         94.7         72 - 126           2-Butanone         78-93-3         MS         51.70         0         48.40         107         44 - 148           2-Hexanone         57-78-6         MS         51.70         0         48.40         121         58	
1.2-Dibromo-3-chloropropane       96-12-8       MS       7.10       0       9.70       7.3.2       5.2 -       151         1.2-Dibromoethane       106-93-4       MS       8       0       9.70       82.9       7.6 -       127         1.2-Dichlorobenzene       95-50-1       MS       7.80       0       9.70       81       75 -       126         1.2-Dichloropropane       78-87-5       MS       10.60       0       9.70       103       69 -       132         1.2-Dichloropropane       78-87-5       MS       9.50       0       9.70       98.5       72 -       126         1.4-Dichlorobenzene       106-46-7       MS       9.20       0       9.70       94.7       72 -       126         2-Butanone       78-93.3       MS       51.70       0       48.40       107       64 -       148         2-Hexanone       591-78-6       MS       51.70       0       48.40       107       62 -       147         Acetone       67-64-1       MS       61.30       2.80       48.40       121       58 -       146         Benzene       71-43.2       MS       10.30       9.70       77.3       74 - <td></td>	
12-Dicromeethane       106-93-4       MS       8       0       9.70       82.9       7.6 -       127         1.2-Dichlorobenzene       95-50-1       MS       7.80       0       9.70       81       75 -       126         1.2-Dichlorobenzene       107-06-2       MS       10       0       9.70       103       69 -       132         1.2-Dichlorobenzene       78-87-5       MS       10.60       0       9.70       198 -       72 -       127         1.4-Dichlorobenzene       541-73-1       MS       9.50       0       9.70       94.7       72 -       126         2-Butanone       78-93-3       MS       51.70       0       48.40       107       64 -       148         2-Hexanone       591-78-4       MS       51.70       0       48.40       107       62 -       147         4-Methyl-2-Pentanone(MIBK)       109-10-1       MS       44.60       0       48.40       107       62 -       147         Acetone       67-64-1       MS       61.30       2.80       48.40       121       58 -       146         Benzene       71-4-22       MS       10.30       9.70       77.3       74 -	
12-Dichlorobenzene         95-50-1         MS         7.80         0         9.70         81         75 - 126           1.2-Dichloropthane         107-06-2         MS         10         0         9.70         103         69 - 132           1.2-Dichloropthane         78-87-5         MS         10.60         0         9.70         109         78 - 131           1.3-Dichlorobenzene         541-73-1         MS         9.50         0         9.70         98.5         72 - 127           1.4-Dichlorobenzene         106-46-7         MS         9.20         0         9.70         94.7         72 - 126           2-Butanone         78-93-3         MS         51.70         0         48.40         107         64 - 148           2-Hexanone         591-78-6         MS         51.70         0         48.40         107         64 - 143           Acetone         67-64-1         MS         61.30         2.80         48.40         121         58 - 146           Benzene         71-43-2         MS         10.30         0         9.70         107         75 - 132           Bromochloromethane         75-27         MS         8.60         0         9.70         68 - 131	
1.2-Dichloroethane         107-06-2         MS         10         0         9.70         103         69 - 132           1.2-Dichloropropane         78-87-5         MS         10.60         0         9.70         109         78 - 131           1.3-Dichlorobenzene         541-73-1         MS         9.50         0         9.70         98.5         72 - 127           1.4-Dichlorobenzene         106-46-7         MS         9.20         0         9.70         94.7         72 - 126           2-Butanene         78-93-3         MS         51.70         0         48.40         107         64 - 148           2-Hexanone         591-78-6         MS         51.70         0         48.40         107         62 - 147           Acetone         67-64-1         MS         61.30         2.80         48.40         121         58 - 146           Benzene         71-43-2         MS         10.30         0         9.70         107         75 - 132           Bromochloromethane         74-97-5         MS         8.60         0         9.70         66.9*         68 - 131           Bromodichloromethane         75-25-2         MS         6.50         0         9.70         76.4<	
1/2-Dichloroethane         107-06-2         MS         10         0         9.70         103         69 - 132           1.2-Dichloropropane         78-87-5         MS         10.60         0         9.70         109         78 - 131           1.3-Dichlorobenzene         541-73-1         MS         9.50         0         9.70         98.5         72 - 127           1.4-Dichlorobenzene         106-46-7         MS         9.20         0         9.70         94.7         72 - 126           2-Butanone         78-93-3         MS         51.70         0         48.40         107         64 - 148           2-Hexanone         591-78-6         MS         51.70         0         48.40         107         62 - 147           Acetone         576-64-1         MS         61.30         2.80         48.40         121         58 - 146           Benzene         71-43-2         MS         10.30         0         9.70         107         75 - 132           Bromochloromethane         75-27-4         MS         7.50         0         9.70         66.9*         68 - 131           Bromoromethane         75-25-2         MS         6.50         0         9.70         77.6	
1.3-Dichlorobenzene         541-73-1         MS         9.50         0         9.70         98.5         72 -         127           1.4-Dichlorobenzene         106-46-7         MS         9.20         0         9.70         94.7         72 -         126           2-Butanone         78-93-3         MS         51.70         0         48.40         107         64 -         148           2-Hexanone         591-78-6         MS         51.70         0         48.40         107         62 -         147           4-Methyl-2-Pentanone(MIBK)         108-10-1         MS         44.60         0         48.40         92.2         64 -         143           Acetone         67-64-1         MS         61.30         2.80         48.40         121         58 -         146           Benzene         71-43-2         MS         10.30         0         9.70         107         75 -         132           Bromochloromethane         74-97-5         MS         8.60         0         9.70         97.1         71 -         120           Bromochloromethane         75-25-2         MS         6.50         0         9.70         77.6         42 -         144	
1.3-Dichlorobenzene         541-73-1         MS         9.50         0         9.70         98.5         72 -         127           1.4-Dichlorobenzene         106-46-7         MS         9.20         0         9.70         94.7         72 -         126           2-Butanone         78-93-3         MS         51.70         0         48.40         107         64 -         148           2-Hexanone         591-78-6         MS         51.70         0         48.40         107         62 -         147           4-Methyl-2-Pentanone(MIBK)         108-10-1         MS         44.60         0         48.40         92.2         64 -         143           Acetone         67-64-1         MS         61.30         2.80         48.40         121         58 -         146           Benzene         71-43-2         MS         10.30         0         9.70         107         75 -         132           Bromochloromethane         74-97-5         MS         8.60         0         9.70         97.1         71 -         120           Bromochloromethane         75-25-2         MS         6.50         0         9.70         77.6         42 -         144	
1.4-Dichlorobenzene       106-46-7       MS       9.20       0       9.70       94.7       72 - 126         2-Butanone       78-93-3       MS       51.70       0       48.40       107       64 - 148         2-Hexanone       591-78-6       MS       51.70       0       48.40       107       62 - 147         4-Methyl-2-Pentanone(MIBK)       108-10-1       MS       44.60       0       48.40       92.2       64 - 143         Acetone       67-64-1       MS       61.30       2.80       48.40       121       58 - 146         Benzene       71-43-2       MS       10.30       0       9.70       107       75 - 132         Bromochloromethane       74-97-5       MS       8.60       0       9.70       17.3       74 - 127         Bromoferm       75-27-4       MS       7.50       0       9.70       77.3       74 - 127         Bromoform       75-25-2       MS       6.50       0       9.70       15.84       3 - 148         Carbon Disulfide       75-50       MS       7.50       0       9.70       77.6       47 - 144         Carbon Disulfide       75-15-0       MS       7.50       0	
2-Butanone         78-93-3         MS         51.70         0         48.40         107         64 - 148           2-Hexanone         591-78-6         MS         51.70         0         48.40         107         62 - 147           4-Methyl-2-Pentanone(MIBK)         108-10-1         MS         44.60         0         48.40         92.2         64 - 143           Acetone         67-64-1         MS         61.30         2.80         48.40         121         58 - 146           Benzene         71-43-2         MS         10.30         0         9.70         107         75 - 132           Bromochloromethane         74-97-5         MS         8.60         0         9.70         89.1         71 - 120           Bromodichloromethane         75-27-4         MS         7.50         0         9.70         77.3         74 - 127           Bromodichloromethane         75-22         MS         6.50         0         9.70         166.9*         68 - 131           Bromomethane         74-83-9         MS         15.30         0         9.70         77.6         47 - 144           Carbon Disulfide         75-10         MS         7.50         9.70         76.1         64	
2-Hexanone       591-78-6       MS       51.70       0       48.40       107       62 - 147         4-Methyl-2-Pentanone(MIBK)       108-10-1       MS       44.60       0       48.40       92.2       64 - 143         Acetone       67-64-1       MS       61.30       2.80       48.40       121       58 - 146         Benzene       71-43-2       MS       10.30       0       9.70       107       75 - 132         Bromochloromethane       74-97-5       MS       8.60       0       9.70       77.3       74 - 127         Bromochloromethane       75-27-4       MS       7.50       0       9.70       158*       43 - 148         Carbon Disulfide       75-15-0       MS       7.50       0       9.70       77.6       47 - 144         Carbon Disulfide       75-15-0       MS       7.50       0       9.70       76.4       125         Chlorobenzene       108-90-7       MS       8.90       0       9.70       74*       15       124         Chlorodibromomethane       124-48-1       MS       7.20       0       9.70       74*       15       124         Chlorodibromomethane       124-48-1       MS </td <td></td>	
4-Methyl-2-Pentanone(MIBK)108-10-1MS44.60048.4092.264 -143Acetone67-64-1MS61.302.8048.4012158 -146Benzene71-43-2MS10.3009.7010775 -132Bromochloromethane74-97-5MS8.6009.7089.171 -120Bromochloromethane75-27-4MS7.5009.7077.374 -127Bromoform75-25-2MS6.5009.70158*43 -148Carbon Disulfide75-15-0MS7.5009.7077.647 -144Carbon Disulfide56-23-5MS9.3009.7096.164 -136Chlorobenzene108-90-7MS8.9009.7074*75 -124Chlorodibrommethane124-48-1MS7.2009.7074*75 -124Chlorodibromomethane76-6-3MS9.500.389.709473 -126Chloroform67-66-3MS9.5009.7012144 -139Chloromethane74-87-3MS11.7009.7010975 -128cis-1,3-Dichloropropene1061-01-5MS7.1009.7073.1*76 -123	
Acetone67-64-1MS61.302.8048.4012158 - 146Benzene71-43-2MS10.3009.7010775 - 132Bromochloromethane74-97-5MS8.6009.7089.171 - 120Bromochloromethane75-27-4MS7.5009.7077.374 - 127Bromotichloromethane75-25-2MS6.5009.7066.9*68 - 131Bromotifue75-15-0MS7.5009.70158*43 - 148Carbon Disulfide75-15-0MS7.5009.7077.647 - 144Carbon Tetrachloride56-23-5MS9.3009.7096.164 - 136Chlorobenzene108-90-7MS8.9009.7077.4*75 - 124Chlorodibromomethane124-48-1MS7.2009.7079.91 - 141Chloroform67-66-3MS9.500.389.709473 - 126Chloromethane74-87-3MS11.7009.7075 - 128cis-1,2-Dichloropropene10061-01-5MS7.1009.7073.1*76 - 123	
Benzene71-43-2MS10.3009.7010775 - 132Bromochloromethane74-97-5MS8.6009.7089.171 - 120Bromodichloromethane75-27-4MS7.5009.7077.374 - 127Bromodichloromethane75-25-2MS6.5009.70158*43 - 148Bromomethane74-83-9MS15.3009.70158*43 - 148Carbon Disulfide75-15-0MS7.5009.7077.647 - 144Carbon Tetrachloride56-23-5MS9.3009.7096.164 - 136Chlorobenzene108-90-7MS8.9009.7074*75 - 124Chlorodibromomethane124-48-1MS7.2009.7079.91 - 141Chloroform67-66-3MS9.500.389.709473 - 126Chloroform67-66-3MS11.7009.7012144 - 139cis-1,2-Dichloropenee1061-01-5MS7.1009.7073.1*76 - 123	
Bromochloromethane74-97-5MS8.6009.7089.171 - 120Bromodichloromethane75-27-4MS7.5009.7077.374 - 127Bromoform75-25-2MS6.5009.7066.9*68 - 131Bromomethane74-83-9MS15.3009.70158*43 - 148Carbon Disulfide75-15-0MS7.5009.7077.647 - 144Carbon Tetrachloride56-23-5MS9.3009.7096.164 - 136Chlorobenzene108-90-7MS8.9009.7074*75 - 124Chloroethane75-00-3MS7.2009.7074*75 - 124Chloroethane75-03MS9.500.389.709473 - 126Chloroethane74-87-3MS11.7009.7012144 - 139cis-1,2-Dichloroethene156-59-2MS10.5009.7073.1*76 - 123	
Bromodichloromethane75-27-4MS7.5009.7077.374 - 127Bromoform75-25-2MS6.5009.7066.9*68 - 131Bromomethane74-83-9MS15.3009.70158*43 - 148Carbon Disulfide75-15-0MS7.5009.7077.647 - 144Carbon Tetrachloride56-23-5MS9.3009.7096.164 - 136Chlorobenzene108-90-7MS8.9009.7074*75 - 124Chlorodibromomethane124-48-1MS7.2009.7074*75 - 124Chloroform67-66-3MS9.500.389.709473 - 126Chloromethane74-87-3MS11.7009.7012144 - 139cis-1,2-Dichloroptopene10061-01-5MS7.1009.7073.*76 - 123	
Bromoform75-25-2MS6.5009.7066.9*68 - 131Bromomethane74-83-9MS15.3009.70158*43 - 148Carbon Disulfide75-15-0MS7.5009.7077.647 - 144Carbon Tetrachloride56-23-5MS9.3009.7096.164 - 136Chlorobenzene108-90-7MS8.9009.7092.476 - 125Chlorodibromomethane124-48-1MS7.2009.7074*75 - 124Chlorodibromomethane75-00-3MS7.7009.7079.91 - 141Chloroform67-66-3MS9.500.389.709473 - 126Chloroethane74-87-3MS11.7009.7010975 - 128cis-1,2-Dichloroethene156-59-2MS10.5009.7073.1*76 - 123	
Bromomethane74-83-9MS15.3009.70158*43 - 148Carbon Disulfide75-15-0MS7.5009.7077.647 - 144Carbon Tetrachloride56-23-5MS9.3009.7096.164 - 136Chtorobenzene108-90-7MS8.9009.7092.476 - 125Chtorodibromomethane124-48-1MS7.2009.7074*75 - 124Chtoroethane75-00-3MS7.7009.7079.91 - 141Chtoroform67-66-3MS9.500.389.709473 - 126Chtoroethane74-87-3MS11.7009.7012144 - 139cis-1,2-Dichloroethene156-59-2MS10.5009.7073.1*76 - 123	
Carbon Disulfide75-15-0MS7.5009.7077.647 - 144Carbon Tetrachloride56-23-5MS9.3009.7096.164 - 136Chlorobenzene108-90-7MS8.9009.7092.476 - 125Chlorodibromomethane124-48-1MS7.2009.7074*75 - 124Chlorodibromomethane75-00-3MS7.7009.7079.91 - 141Chloroform67-66-3MS9.500.389.709473 - 126Chloromethane74-87-3MS11.7009.7012144 - 139cis-1,2-Dichloroptopene10061-01-5MS7.1009.7073.1*76 - 123	
Carbon Tetrachloride56-23-5MS9.3009.7096.164 - 136Chlorobenzene108-90-7MS8.9009.7092.476 - 125Chlorodibromomethane124-48-1MS7.2009.7074*75 - 124Chloroethane75-00-3MS7.7009.7079.91 - 141Chloroform67-66-3MS9.500.389.709473 - 126Chloromethane74-87-3MS11.7009.7012144 - 139cis-1,2-Dichloroethene156-59-2MS10.5009.7010975 - 128cis-1,3-Dichloropropene10061-01-5MS7.1009.7073.1*76 - 123	
Chlorobenzene108-90-7MS8.9009.7092.476 - 125Chlorodibromomethane124-48-1MS7.2009.7074*75 - 124Chloroethane75-00-3MS7.7009.7079.91 - 141Chloroform67-66-3MS9.500.389.709473 - 126Chloromethane74-87-3MS11.7009.7012144 - 139cis-1,2-Dichloroethene156-59-2MS10.5009.7010975 - 128cis-1,3-Dichloropropene10061-01-5MS7.1009.7073.1*76 - 123	
Chlorodibromomethane       124-48-1       MS       7.20       0       9.70       74*       75 - 124         Chlorodibromomethane       75-00-3       MS       7.70       0       9.70       79.9       1 - 141         Chloroform       67-66-3       MS       9.50       0.38       9.70       94       73 - 126         Chloromethane       74-87-3       MS       11.70       0       9.70       121       44 - 139         cis-1,2-Dichloroethene       156-59-2       MS       10.50       0       9.70       109       75 - 128         cis-1,3-Dichloropropene       10061-01-5       MS       7.10       0       9.70       73.1*       76 - 123	
Chloroethane       75-00-3       MS       7.70       0       9.70       79.9       1 - 141         Chloroform       67-66-3       MS       9.50       0.38       9.70       94       73 - 126         Chloromethane       74-87-3       MS       11.70       0       9.70       121       44 - 139         cis-1,2-Dichloroethene       156-59-2       MS       10.50       0       9.70       109       75 - 128         cis-1,3-Dichloropropene       10061-01-5       MS       7.10       0       9.70       73.1*       76 - 123	
Chloroform         67-66-3         MS         9.50         0.38         9.70         94         73 - 126           Chloromethane         74-87-3         MS         11.70         0         9.70         121         44 - 139           cis-1,2-Dichloroethene         156-59-2         MS         10.50         0         9.70         109         75 - 128           cis-1,3-Dichloropropene         10061-01-5         MS         7.10         0         9.70         73.1*         76 - 123	
Chloromethane         74-87-3         MS         11.70         0         9.70         121         44 -         139           cis-1,2-Dichloroethene         156-59-2         MS         10.50         0         9.70         109         75 -         128           cis-1,3-Dichloropropene         10061-01-5         MS         7.10         0         9.70         73.1*         76 -         123	
cis-1,2-Dichloroethene156-59-2MS10.5009.7010975 -128cis-1,3-Dichloropropene10061-01-5MS7.1009.7073.1*76 -123	
cis-1,3-Dichloropropene 10061-01-5 MS 7.10 0 9.70 73.1* 76 - 123	
Cyclohexane 110-82-7 MS 10.70 0 9.70 110 62 - 143	
Dichlorodifluoromethane 75-71-8 MS 12.90 0 9.70 133 16 - 152	
Ethylbenzene 100-41-4 MS 9.70 0 9.70 100 73 - 133	
Freon 113 76-13-1 MS 10.60 0 9.70 109 40 - 109	
Isopropylbenzene 98-82-8 MS 10.50 0 9.70 108 71 - 137	



### **VOLATILE ORGANICS (cont.)**

#### RESULTS

			<u>Orig.</u>	<u>Spk</u>	Rec			
CAS No					(%)	Limits (%)	RPD Limit (%)	Qualifiers
79-20-9	MS	9.40	0	9.70	97.5	70 - 130		
108-87-2	MS	9.30	0	9.70	96.2	70 - 130		
1634-04-4	MS	9.80	0	9.70	101	70 - 118		
75-09-2	MS	10	1.10	9.70	91.7	68 - 133		
108383/106423	MS	16.60	0	19.40	85.7	72 - 130		
95-47-6	MS	7.80	0	9.70	80.9	75 - 129		
100-42-5	MS	9.20	0	9.70	95.3	77 - 130		
127-18-4	MS	8	0	9.70	83.1	58 - 137		
108-88-3	MS	8.10	0	9.70	84.2	73 - 129		
1330-20-7	MS	24.40	0	29	84.1	73 - 130		
156-60-5	MS	9.90	0	9.70	102	66 - 133		
10061-02-6	MS	7.60	0	9.70	78.9	77 - 123		
79-01-6	MS	9.70	0	9.70	101	72 - 129		
75-69-4	MS	13.70	0	9.70	142*	40 - 130		
75-01-4	MS	12.60	0	9.70	130	53 - 141		
	79-20-9         108-87-2         1634-04-4         75-09-2         108383/106423         95-47-6         100-42-5         127-18-4         108-88-3         1330-20-7         156-60-5         10061-02-6         79-01-6         75-69-4	79-20-9         MS           108-87-2         MS           1634-04-4         MS           75-09-2         MS           108383/106423         MS           95-47-6         MS           100-42-5         MS           108-88-3         MS           1330-20-7         MS           10061-02-6         MS           79-01-6         MS	T9-20-9         MS         9.40           108-87-2         MS         9.30           1634-04-4         MS         9.80           75-09-2         MS         10           108383/106423         MS         16.60           95-47-6         MS         7.80           100-42-5         MS         9.20           127-18-4         MS         8           108-88-3         MS         8.10           1330-20-7         MS         24.40           156-60-5         MS         9.90           10061-02-6         MS         7.60           79-01-6         MS         9.70           75-69-4         MS         13.70	CAS No         Result (ug/kg)         Result (ug/kg)           79-20-9         MS         9.40         0           108-87-2         MS         9.30         0           1634-04-4         MS         9.80         0           75-09-2         MS         10         1.10           108383/106423         MS         16.60         0           95-47-6         MS         7.80         0           100-42-5         MS         9.20         0           100-42-5         MS         9.20         0           127-18-4         MS         8         0           1330-20-7         MS         24.40         0           156-60-5         MS         9.90         0           10061-02-6         MS         7.60         0           79-01-6         MS         9.70         0	Result (ug/kg)         Result (ug/kg)         Result (ug/kg)         Added (ug/kg)           79-20-9         MS         9.40         0         9.70           108-87-2         MS         9.30         0         9.70           1634-04-4         MS         9.80         0         9.70           75-09-2         MS         10         1.10         9.70           108383/106423         MS         16.60         0         19.40           95-47-6         MS         7.80         0         9.70           100-42-5         MS         9.20         0         9.70           100-42-5         MS         9.20         0         9.70           127-18-4         MS         8         0         9.70           1330-20-7         MS         24.40         0         29           156-60-5         MS         9.90         9.70         9.70           10061-02-6         MS         7.60         0         9.70           79-01-6         MS         9.70         0         9.70           75-69-4         MS         13.70         0         9.70	Result (ug/kg)         Result (ug/kg)         Result (ug/kg)         Added (ug/kg)         Result (ug/kg)           79-20-9         MS         9.40         0         9.70         97.5           108-87-2         MS         9.30         0         9.70         96.2           1634-04-4         MS         9.80         0         9.70         101           75-09-2         MS         10         1.10         9.70         91.7           108383/106423         MS         16.60         0         19.40         85.7           95-47-6         MS         7.80         0         9.70         80.9           100-42-5         MS         9.20         0         9.70         83.1           108-88-3         MS         8.10         0         9.70         83.1           108-88-3         MS         8.10         0         9.70         84.2           1330-20-7         MS         24.40         0         29         84.1           156-60-5         MS         9.90         9.70         102           10061-02-6         MS         7.60         0         9.70         18.9           79-01-6         MS         9.70	CAS No (ug/kg)Result (ug/kg)Added (ug/kg)Resc. (%)Limits (%) $79-20-9$ MS $9.40$ 0 $9.70$ $97.5$ $70 - 130$ $108-87-2$ MS $9.30$ 0 $9.70$ $96.2$ $70 - 130$ $1634-04-4$ MS $9.80$ 0 $9.70$ $96.2$ $70 - 130$ $1634-04-4$ MS $9.80$ 0 $9.70$ $96.2$ $70 - 130$ $1634-04-4$ MS $9.80$ 0 $9.70$ $96.2$ $70 - 130$ $1634-04-4$ MS $9.80$ 0 $9.70$ $91.7$ $68 - 133$ $108383/106423$ MS $16.60$ 0 $19.40$ $85.7$ $72 - 130$ $95-47-6$ MS $7.80$ 0 $9.70$ $80.9$ $75 - 129$ $100-42-5$ MS $9.20$ 0 $9.70$ $80.9$ $77 - 130$ $127-18-4$ MS $8$ 0 $9.70$ $84.2$ $73 - 129$ $1330-20-7$ MS $24.40$ 0 $29$ $84.1$ $73 - 130$ $156-60-5$ MS $9.90$ $0$ $9.70$ $102$ $66 - 133$ $10061-02-6$ MS $7.60$ $0$ $9.70$ $101$ $72 - 129$ $79-01-6$ MS $9.70$ $0$ $9.70$ $101$ $72 - 129$ $75-69-4$ MS $13.70$ $0$ $9.70$ $142^*$ $40 - 130$	Result (ug/kg)         Result (ug/kg)         Added (ug/kg)         Result (%)         Limits (%)         RPD Limit (%)           79-20-9         MS         9.40         0         9.70         97.5         70 - 130           108-87-2         MS         9.30         0         9.70         96.2         70 - 130           1634-04-4         MS         9.80         0         9.70         101         70 - 118           75-09-2         MS         10         1.10         9.70         91.7         68 - 133           108383/106423         MS         16.60         0         19.40         85.7         72 - 130           95-47-6         MS         7.80         0         9.70         91.7         68 - 133           100-42-5         MS         9.20         0         9.70         95.3         77 - 130           127-18-4         MS         8         0         9.70         83.1         58 - 137           108-88-3         MS         8.10         0         9.70         84.2         73 - 129           1330-20-7         MS         24.40         0         29         84.1         73 - 130           156-60-5         MS         9.90

#### SURROGATES

Compound	CAS No		<u>Result</u> (ug/kg)	Expected (ug/kg)	<u>Rec.</u> (%)	<u>Limits (%)</u>	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	MS	12.10	14.50	83.5	56 - 124	
4-Bromofluorobenzene	460-00-4	MS	12.40	14.50	85.5	51 - 128	
Dibromofluoromethane	1868-53-7	MS	10.10	14.50	69.8	62 - 123	
Toluene-d8	2037-26-5	MS	11.50	14.50	79.4	59 - 131	

QC Ba	atch ———			$\overline{}$	Associate	ed Samples		
QC Batch	936471	Prep Method	SW846 5035A		3282987002	3282987005	3282987015	3282987018
<u>Date</u>	01/18/2023 08:14	Analysis Method	SW846 8260B		3283084002	3283084006		
Tech.	JTH			J				

Method Blank	3612380 (MB)	Created on 01/18/2023 08:14	For QC Batch 936471

#### RESULTS

<u>Compound</u>	CAS No		Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND ug/kg	2.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND ug/kg	2.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND ug/kg	2.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND ug/kg	2.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND ug/kg	2.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND ug/kg	5.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND ug/kg	5.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND ug/kg	5.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND ug/kg	2.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND ug/kg	2.0	ND



## **VOLATILE ORGANICS (cont.)**

#### RESULTS

Compound	CAS No		Result Units	RDL	Qualifiers
1,2-Dichloroethane	107-06-2	BLK	ND ug/kg	2.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND ug/kg	2.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND ug/kg	2.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND ug/kg	2.0	ND
2-Butanone	78-93-3	BLK	ND ug/kg	10.0	ND
2-Hexanone	591-78-6	BLK	ND ug/kg	10.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND ug/kg	10.0	ND
Acetone	67-64-1	BLK	ND ug/kg	10.0	ND
Benzene	71-43-2	BLK	ND ug/kg	2.0	ND
Bromochloromethane	74-97-5	BLK	ND ug/kg	2.0	ND
Bromodichloromethane	75-27-4	BLK	ND ug/kg	2.0	ND
Bromoform	75-25-2	BLK	ND ug/kg	2.0	ND
Bromomethane	74-83-9	BLK	ND ug/kg	2.0	ND
Carbon Disulfide	75-15-0	BLK	ND ug/kg	2.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND ug/kg	2.0	ND
Chlorobenzene	108-90-7	BLK	ND ug/kg	2.0	ND
Chlorodibromomethane	124-48-1	BLK	ND ug/kg	2.0	ND
Chloroethane	75-00-3	BLK	ND ug/kg	5.0	ND
Chloroform	67-66-3	BLK	ND ug/kg	2.0	ND
Chloromethane	74-87-3	BLK	ND ug/kg	2.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND ug/kg	2.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND ug/kg	2.0	ND
Cyclohexane	110-82-7	BLK	ND ug/kg	2.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND ug/kg	2.0	ND
Ethylbenzene	100-41-4	BLK	ND ug/kg	2.0	ND
Freon 113	76-13-1	BLK	ND ug/kg	2.0	ND
Isopropylbenzene	98-82-8	BLK	ND ug/kg	2.0	ND
Methyl acetate	79-20-9	BLK	ND ug/kg	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND ug/kg	2.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND ug/kg	2.0	ND
Methylene Chloride	75-09-2	BLK	ND ug/kg	2.0	ND
mp-Xylene	108383/106423	BLK	ND ug/kg	4.0	ND
o-Xylene	95-47-6	BLK	ND ug/kg	2.0	ND
Styrene	100-42-5	BLK	ND ug/kg	2.0	ND
Tetrachloroethene	127-18-4	BLK	ND ug/kg	2.0	ND
Toluene	108-88-3	BLK	ND ug/kg	2.0	ND
Total Xylenes	1330-20-7	BLK	ND ug/kg	6.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND ug/kg	2.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND ug/kg	2.0	ND
Trichloroethene	79-01-6	BLK	ND ug/kg	2.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND ug/kg	2.0	ND
Vinyl Chloride	75-01-4	BLK	ND ug/kg	2.0	ND

#### SURROGATES

			<u>Result</u>	Expected	Rec.		
Compound	CAS No		<u>(ug/kg)</u>	<u>(ug/kg)</u>	<u>(%)</u>	<u>Limits (%)</u>	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	25.20	30	84	56 - 124	



### VOLATILE ORGANICS (cont.)

#### SURROGATES

<u>Compound</u> 4-Bromofluorobenzene	<u>CAS No</u> 460-00-4	BLK	<u>Result</u> (ug/kg) 23.50	Expected (ug/kg) 30	<u>Rec.</u> (%) 78.2	<u>Limits (%)</u> 51 - 128	Qualifie	ers
Dibromofluoromethane	1868-53-7 2037-26-5	BLK BLK	19.40 24.60	30 30 30	64.6 81.9	62 - 123 59 - 131		
Lab Control Standard Lab Control Std Duplicate		·	LCS) LCSD)		-	)1/18/2023 08:14 )1/18/2023 08:14	For QC Batch <u>936471</u> For QC Batch <u>936471</u>	—

#### RESULTS

NESOEIS				Orig.	<u>Spk</u>				
			<u>Result</u>	Result	Added	Rec.			
<u>Compound</u>	CAS No		(ug/kg)	(ug/kg)	(ug/kg)	<u>(%)</u>	Limits (%)	<u>RPD Limit (%)</u>	<u>Qualifiers</u>
1,1,1-Trichloroethane	71-55-6	LCS	18.30		20	91.7	68 - 131		
1,1,1-Trichloroethane	71-55-6	LCSD	19.30		20	96.6	68 - 131	RPD <u>5.27</u> (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.80		20	114	72 - 134		
1,1,2,2-Tetrachloroethane	79-34-5	LCSD	23.30		20	117	72 - 134	RPD <u>2.15</u> (Max-40)	
1,1,2-Trichloroethane	79-00-5	LCS	21.40		20	107	79 - 123		
1,1,2-Trichloroethane	79-00-5	LCSD	21.70		20	109	79 - 123	RPD <u>1.72</u> (Max-40)	
1,1-Dichloroethane	75-34-3	LCS	21.70		20	108	74 - 131		
1,1-Dichloroethane	75-34-3	LCSD	22.70		20	113	74 - 131	RPD <u>4.58</u> (Max-40)	
1,1-Dichloroethene	75-35-4	LCS	18.70		20	93.7	59 - 139		
1,1-Dichloroethene	75-35-4	LCSD	19.80		20	98.8	59 - 139	RPD <u>5.33</u> (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	LCS	16.60		20	82.8	68 - 129		
1,2,3-Trichlorobenzene	87-61-6	LCSD	17.30		20	86.6	68 - 129	RPD <u>4.57</u> (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	LCS	15.90		20	79.3	63 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCSD	16.20		20	80.8	63 - 132	RPD <u>1.92</u> (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	LCS	16.60		20	82.8	52 - 151		
1,2-Dibromo-3-chloropropane	96-12-8	LCSD	17.40		20	86.9	52 - 151	RPD <u>4.86</u> (Max-40)	
1,2-Dibromoethane	106-93-4	LCS	17.80		20	89.1	76 - 127		
1,2-Dibromoethane	106-93-4	LCSD	18.30		20	91.6	76 - 127	RPD <u>2.78</u> (Max-40)	
1,2-Dichlorobenzene	95-50-1	LCS	16.60		20	82.8	75 - 126		
1,2-Dichlorobenzene	95-50-1	LCSD	17.10		20	85.4	75 - 126	RPD <u>3.10</u> (Max-40)	
1,2-Dichloroethane	107-06-2	LCS	21.70		20	109	69 - 132		
1,2-Dichloroethane	107-06-2	LCSD	22.60		20	113	69 - 132	RPD <u>3.81</u> (Max-40)	
1,2-Dichloropropane	78-87-5	LCS	22.20		20	111	78 - 131		
1,2-Dichloropropane	78-87-5	LCSD	22.80		20	114	78 - 131	RPD <u>2.84</u> (Max-40)	
1,3-Dichlorobenzene	541-73-1	LCS	19.80		20	98.9	72 - 127		
1,3-Dichlorobenzene	541-73-1	LCSD	20.30		20	102	72 - 127	RPD <u>2.75</u> (Max-40)	
1,4-Dichlorobenzene	106-46-7	LCS	19.40		20	96.9	72 - 126		
1,4-Dichlorobenzene	106-46-7	LCSD	19.70		20	98.5	72 - 126	RPD <u>1.67</u> (Max-40)	
2-Butanone	78-93-3	LCS	120		100	120	64 - 148		
2-Butanone	78-93-3	LCSD	123		100	123	64 - 148	RPD <u>2.31</u> (Max-40)	
2-Hexanone	591-78-6	LCS	115		100	115	62 - 147		
2-Hexanone	591-78-6	LCSD	119		100	119	62 - 147	RPD <u>3.12</u> (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	101		100	101	64 - 143		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCSD	103		100	103	64 - 143	RPD <u>2.61</u> (Max-40)	
Acetone	67-64-1	LCS	126		100	126	58 - 146		
Acetone	67-64-1	LCSD	129		100	129	58 - 146	RPD <u>2.21</u> (Max-40)	
Benzene	71-43-2	LCS	21.90		20	110	75 - 132		



### **VOLATILE ORGANICS (cont.)**

#### RESULTS

	0.00.01		<u>Result</u>	<u>Orig.</u> Result	<u>Spk</u> Added	<u>Rec.</u> (%)			
<u>Compound</u>	CAS No		<u>(ug/kg)</u>	<u>(ug/kg)</u>	<u>(ug/kg)</u>		<u>Limits (%)</u>	RPD Limit (%)	<u>Qualifiers</u>
Benzene	71-43-2	LCSD	22.80		20	114	75 - 132	RPD <u>3.92</u> (Max-40)	
Bromochloromethane	74-97-5	LCS	18.40		20	92.2	71 - 120	PPD 2.00 (May 40)	
Bromochloromethane	74-97-5	LCSD	19.20		20	96	71 - 120	RPD <u>3.99</u> (Max-40)	
Bromodichloromethane	75-27-4	LCS	16.20		20	81	74 - 127		
Bromodichloromethane	75-27-4	LCSD	17		20	84.8	74 - 127	RPD <u>4.61</u> (Max-40)	
Bromoform	75-25-2	LCS	15		20	75.2	68 - 131		
Bromoform	75-25-2	LCSD	15.30		20	76.7	68 - 131	RPD <u>1.96</u> (Max-40)	
Bromomethane	74-83-9	LCS	28.70		20	143	43 - 148		
Bromomethane	74-83-9	LCSD	30.40		20	152*	43 - 148	RPD <u>5.84</u> (Max-40)	
Carbon Disulfide	75-15-0	LCS	18.60		20	93	47 - 144		
Carbon Disulfide	75-15-0	LCSD	20.10		20	101	47 - 144	RPD <u>7.79</u> (Max-40)	
Carbon Tetrachloride	56-23-5	LCS	20		20	100	64 - 136		
Carbon Tetrachloride	56-23-5	LCSD	21		20	105	64 - 136	RPD <u>5.03</u> (Max-40)	
Chlorobenzene	108-90-7	LCS	19		20	95	76 - 125		
Chlorobenzene	108-90-7	LCSD	19.70		20	98.5	76 - 125	RPD <u>3.62</u> (Max-40)	
Chlorodibromomethane	124-48-1	LCS	16		20	79.9	75 - 124		
Chlorodibromomethane	124-48-1	LCSD	16.70		20	83.3	75 - 124	RPD <u>4.24</u> (Max-40)	
Chloroethane	75-00-3	LCS	13.50		20	67.5	1 - 141		
Chloroethane	75-00-3	LCSD	14.90		20	74.7	1 - 141	RPD <u>10.30</u> (Max-40)	
Chloroform	67-66-3	LCS	19.60		20	97.8	73 - 126		
Chloroform	67-66-3	LCSD	20.50		20	102	73 - 126	RPD <u>4.65</u> (Max-40)	
Chloromethane	74-87-3	LCS	24.20		20	121	44 - 139		
Chloromethane	74-87-3	LCSD	26.30		20	131	44 - 139	RPD <u>8.09</u> (Max-40)	
cis-1,2-Dichloroethene	156-59-2	LCS	22.10		20	111	75 - 128		
cis-1,2-Dichloroethene	156-59-2	LCSD	23.40		20	117	75 - 128	RPD <u>5.70</u> (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	LCS	15.40		20	76.8	76 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCSD	16.10		20	80.6	76 - 123	RPD <u>4.93</u> (Max-40)	
Cyclohexane	110-82-7	LCS	22.50		20	113	62 - 143		
Cyclohexane	110-82-7	LCSD	23.20		20	116	62 - 143	RPD <u>2.96</u> (Max-40)	
Dichlorodifluoromethane	75-71-8	LCS	25		20	125	16 - 152		
Dichlorodifluoromethane	75-71-8	LCSD	26.40		20	132	16 - 152	RPD <u>5.20</u> (Max-40)	
Ethylbenzene	100-41-4	LCS	19.90		20	99.4	73 - 133		
Ethylbenzene	100-41-4	LCSD	20.70		20	104	73 - 133	RPD <u>4.10</u> (Max-40)	
Freon 113	76-13-1	LCS	22.20		20	111*	40 - 109		
Freon 113	76-13-1	LCSD	23.20		20	116*	40 - 109	RPD <u>4.79</u> (Max-40)	
Isopropylbenzene	98-82-8	LCS	19.50		20	97.5	71 - 137		
Isopropylbenzene	98-82-8	LCSD	20		20	100	71 - 137	RPD <u>2.64</u> (Max-40)	
Methyl acetate	79-20-9	LCS	23.70		20	118	70 - 130		
Methyl acetate	79-20-9	LCSD	24.50		20	123	70 - 130	RPD <u>3.45</u> (Max-40)	
Methyl cyclohexane	108-87-2	LCS	18.20		20	91.2	70 - 130		
Methyl cyclohexane	108-87-2	LCSD	18.90		20	94.5	70 - 130	RPD <u>3.52</u> (Max-40)	
Methyl t-Butyl Ether	1634-04-4	LCS	21.80		20	109	70 - 118		
Methyl t-Butyl Ether	1634-04-4	LCSD	22.70		20	113	70 - 118	RPD <u>3.69</u> (Max-40)	
Methylene Chloride	75-09-2	LCS	19.90		20	99.5	68 - 133		
Methylene Chloride	75-09-2	LCSD	20.90		20	104	68 - 133	RPD <u>4.90</u> (Max-40)	
mp-Xylene	108383/106423	LCS	34		40	84.9	72 - 130		
mp-Xylene	108383/106423	LCSD	35.40		40	88.4	72 - 130	RPD <u>4.02</u> (Max-40)	
o-Xylene	95-47-6	LCS	15.40		20	77.2	75 - 129		
o-Xylene	95-47-6	LCSD	16.20		20	81.1	75 - 129	RPD 4.92 (Max-40)	
AIS is one of the world's larges				service nrovi	ders. To lea				



## **VOLATILE ORGANICS (cont.)**

#### RESULTS

			Desult	<u>Orig.</u>	<u>Spk</u>	Rec.			
Compound	CAS No		<u>Result</u> (ug/kg)	<u>Result</u> (ug/kg)	<u>Added</u> (ug/kg)	<u>(%)</u>	<u>Limits (%)</u>	<u>RPD Limit (%)</u>	<u>Qualifiers</u>
Styrene	100-42-5	LCS	17.90		20	89.6	77 - 130		
Styrene	100-42-5	LCSD	18.30		20	91.4	77 - 130	RPD <u>1.96</u> (Max-40)	
Tetrachloroethene	127-18-4	LCS	17		20	85	58 - 137		
Tetrachloroethene	127-18-4	LCSD	17.70		20	88.3	58 - 137	RPD <u>3.76</u> (Max-40)	
Toluene	108-88-3	LCS	18.50		20	92.4	73 - 129		
Toluene	108-88-3	LCSD	19.30		20	96.6	73 - 129	RPD <u>4.44</u> (Max-40)	
Total Xylenes	1330-20-7	LCS	49.40		60	82.4	73 - 130		
Total Xylenes	1330-20-7	LCSD	51.60		60	86	73 - 130	RPD <u>4.30</u> (Max-40)	
trans-1,2-Dichloroethene	156-60-5	LCS	21.60		20	108	66 - 133		
trans-1,2-Dichloroethene	156-60-5	LCSD	22.30		20	112	66 - 133	RPD <u>3.22</u> (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	LCS	17		20	85	77 - 123		
trans-1,3-Dichloropropene	10061-02-6	LCSD	17.50		20	87.4	77 - 123	RPD <u>2.83</u> (Max-40)	
Trichloroethene	79-01-6	LCS	20.40		20	102	72 - 129		
Trichloroethene	79-01-6	LCSD	21.30		20	107	72 - 129	RPD <u>4.49</u> (Max-40)	
Trichlorofluoromethane	75-69-4	LCS	25		20	125	40 - 130		
Trichlorofluoromethane	75-69-4	LCSD	25.70		20	129	40 - 130	RPD <u>2.87</u> (Max-40)	
Vinyl Chloride	75-01-4	LCS	24.80		20	124	53 - 141		
Vinyl Chloride	75-01-4	LCSD	26.10		20	130	53 - 141	RPD <u>5.10</u> (Max-40)	

#### SURROGATES

2/3/2023 9:09 AM

			<u>Result</u>	Expected	Rec.		
Compound	CAS No		<u>(ug/kg)</u>	<u>(ug/kg)</u>	<u>(%)</u>	<u>Limits (%)</u>	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	LCS	24.90	30	82.9	56 - 124	
1,2-Dichloroethane-d4	17060-07-0	LCSD	25.20	30	83.9	56 - 124	
4-Bromofluorobenzene	460-00-4	LCS	24.10	30	80.2	51 - 128	
4-Bromofluorobenzene	460-00-4	LCSD	24.10	30	80.3	51 - 128	
Dibromofluoromethane	1868-53-7	LCS	20.80	30	69.4	62 - 123	
Dibromofluoromethane	1868-53-7	LCSD	21.10	30	70.4	62 - 123	
Toluene-d8	2037-26-5	LCS	23.30	30	77.6	59 - 131	
Toluene-d8	2037-26-5	LCSD	23.50	30	78.5	59 - 131	

	Batch ———			$\overline{}$	Associat	ed Samples		
<u>QC Batch</u> <u>Date</u> <u>Tech.</u>	937065 01/19/2023 08:42 TMP	<u>Prep Method</u> <u>Analysis Method</u>	SW846 5035A SW846 8260B		3282987016 3283084003	3282987017 3283084004	3282987019 3283084005	3283084001
Method Blank		3613071 (M	1B)	Creat	ed on <u>01/19/2023</u>	08:42	For QC	Batch <u>937065</u>
RESULTS								
<u>Compound</u>		CAS No		<u>Result</u> <u>Uni</u>	<u>s F</u>	<u>RDL</u>		<u>Qualifier</u>
		71-55-6	BLK	ND ug/k	g 2.	0		N
1,1,1-Trichloroethane								
1,1,1- Irichloroethane 1,1,2,2-Tetrachloroethane		79-34-5	BLK	ND ug/k	g 2.	0		N



## **VOLATILE ORGANICS (cont.)**

#### RESULTS

Compound	CAS No		Result Units	<u>s RDL</u>	Qualifiers
1,1-Dichloroethane	75-34-3	BLK	ND ug/kg	g 2.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND ug/kg	g 2.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND ug/kg	g 5.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND ug/kg	g 5.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND ug/kg	g 5.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND ug/kg	g 2.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND ug/kg	g 2.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND ug/kg	g 2.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND ug/kg	g 2.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND ug/kg	g 2.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND ug/kg	g 2.0	ND
2-Butanone	78-93-3	BLK	ND ug/kg	g 10.0	ND
2-Hexanone	591-78-6	BLK	ND ug/kg	g 10.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND ug/kg	g 10.0	ND
Acetone	67-64-1	BLK	ND ug/kg	g 10.0	ND
Benzene	71-43-2	BLK	ND ug/kg	g 2.0	ND
Bromochloromethane	74-97-5	BLK	ND ug/kg	g 2.0	ND
Bromodichloromethane	75-27-4	BLK	ND ug/kg	g 2.0	ND
Bromoform	75-25-2	BLK	ND ug/kg	g 2.0	ND
Bromomethane	74-83-9	BLK	ND ug/kg	g 2.0	ND
Carbon Disulfide	75-15-0	BLK	ND ug/kg	g 2.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND ug/kg	g 2.0	ND
Chlorobenzene	108-90-7	BLK	ND ug/kg	g 2.0	ND
Chlorodibromomethane	124-48-1	BLK	ND ug/kg	g 2.0	ND
Chloroethane	75-00-3	BLK	ND ug/kg	g 5.0	ND
Chloroform	67-66-3	BLK	ND ug/kg	g 2.0	ND
Chloromethane	74-87-3	BLK	ND ug/kg	g 2.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND ug/kg	g 2.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND ug/kg	g 2.0	ND
Cyclohexane	110-82-7	BLK	ND ug/kg	g 2.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND ug/kg	g 2.0	ND
Ethylbenzene	100-41-4	BLK	ND ug/kg	g 2.0	ND
Freon 113	76-13-1	BLK	ND ug/kg	g 2.0	ND
Isopropylbenzene	98-82-8	BLK	ND ug/kg	g 2.0	ND
Methyl acetate	79-20-9	BLK	ND ug/kg		ND
Methyl cyclohexane	108-87-2	BLK	ND ug/kg	g 2.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND ug/kg	g 2.0	ND
Methylene Chloride	75-09-2	BLK	ND ug/kg	g 2.0	ND
mp-Xylene	108383/106423	BLK	ND ug/kg	g 4.0	ND
o-Xylene	95-47-6	BLK	ND ug/kg	g 2.0	ND
Styrene	100-42-5	BLK	ND ug/kg	g 2.0	ND
Tetrachloroethene	127-18-4	BLK	ND ug/kg	g 2.0	ND
Toluene	108-88-3	BLK	ND ug/kg	g 2.0	ND
Total Xylenes	1330-20-7	BLK	ND ug/kg	g 6.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND ug/kg	-	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND ug/kg	-	ND
Trichloroethene	79-01-6	BLK	ND ug/kg		ND
Trichlorofluoromethane	75-69-4	BLK	ND ug/kg	-	ND
			5, 5	-	



### **VOLATILE ORGANICS (cont.)**

#### RESULTS

Compound		CAS No		<u>Result</u> Un	<u>its</u>	<u>RDL</u>		Qualifiers
Vinyl Chloride		75-01-4	BLK	ND ug/	kg	2.0		ND
SURROGATES								
			<u>Result</u>	Expected	Rec.			
Compound	<u>CAS No</u>		<u>(ug/kg)</u>	<u>(ug/kg)</u>	<u>(%)</u>	<u>Limits (%)</u>		<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	BLK	24.60	30	81.9	56 - 124		
4-Bromofluorobenzene	460-00-4	BLK	23.20	30	77.2	51 - 128		
Dibromofluoromethane	1868-53-7	BLK	19.30	30	64.3	62 - 123		
Toluene-d8	2037-26-5	BLK	23.60	30	78.7	59 - 131		
Lab Control Standard		3613072	(LCS)	Crea	ted on (	01/19/2023 08:42	For QC Batch	937065
Lab Control Std Duplicate		3613073	(LCSD)	Crea	ted on <u>(</u>	01/19/2023 08:42	For QC Batch	037065

#### RESULTS

1200210									
			Result	<u>Orig.</u> Result	<u>Spk</u> Added	Rec.			
<u>Compound</u>	CAS No		(ug/kg)	(ug/kg)	<u>(ug/kg)</u>	<u>(%)</u>	Limits (%)	RPD Limit (%)	<u>Qualifiers</u>
1,1,1-Trichloroethane	71-55-6	LCS	18.50		20	92.6	68 - 131		
1,1,1-Trichloroethane	71-55-6	LCSD	18.60		20	93.2	68 - 131	RPD <u>0.72</u> (Max-40)	
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.70		20	109	72 - 134		
1,1,2,2-Tetrachloroethane	79-34-5	LCSD	22.40		20	112	72 - 134	RPD <u>2.84</u> (Max-40)	
1,1,2-Trichloroethane	79-00-5	LCS	20.50		20	103	79 - 123		
1,1,2-Trichloroethane	79-00-5	LCSD	20.60		20	103	79 - 123	RPD <u>0.30</u> (Max-40)	
1,1-Dichloroethane	75-34-3	LCS	21.70		20	108	74 - 131		
1,1-Dichloroethane	75-34-3	LCSD	21.50		20	108	74 - 131	RPD <u>0.63</u> (Max-40)	
1,1-Dichloroethene	75-35-4	LCS	18.30		20	91.6	59 - 139		
1,1-Dichloroethene	75-35-4	LCSD	18.30		20	91.4	59 - 139	RPD <u>0.22</u> (Max-40)	
1,2,3-Trichlorobenzene	87-61-6	LCS	16.80		20	84.1	68 - 129		
1,2,3-Trichlorobenzene	87-61-6	LCSD	17.20		20	86.2	68 - 129	RPD <u>2.42</u> (Max-40)	
1,2,4-Trichlorobenzene	120-82-1	LCS	15.80		20	79	63 - 132		
1,2,4-Trichlorobenzene	120-82-1	LCSD	16.10		20	80.6	63 - 132	RPD <u>1.97</u> (Max-40)	
1,2-Dibromo-3-chloropropane	96-12-8	LCS	16.30		20	81.7	52 - 151		
1,2-Dibromo-3-chloropropane	96-12-8	LCSD	15.80		20	79.1	52 - 151	RPD <u>3.27</u> (Max-40)	
1,2-Dibromoethane	106-93-4	LCS	17		20	85.2	76 - 127		
1,2-Dibromoethane	106-93-4	LCSD	17.20		20	85.9	76 - 127	RPD <u>0.73</u> (Max-40)	
1,2-Dichlorobenzene	95-50-1	LCS	16.30		20	81.4	75 - 126		
1,2-Dichlorobenzene	95-50-1	LCSD	16.60		20	83.2	75 - 126	RPD <u>2.20</u> (Max-40)	
1,2-Dichloroethane	107-06-2	LCS	22		20	110	69 - 132		
1,2-Dichloroethane	107-06-2	LCSD	21.70		20	108	69 - 132	RPD <u>1.64</u> (Max-40)	
1,2-Dichloropropane	78-87-5	LCS	22.20		20	111	78 - 131		
1,2-Dichloropropane	78-87-5	LCSD	21.30		20	106	78 - 131	RPD <u>4.18</u> (Max-40)	
1,3-Dichlorobenzene	541-73-1	LCS	19.60		20	97.9	72 - 127		
1,3-Dichlorobenzene	541-73-1	LCSD	19.90		20	99.3	72 - 127	RPD <u>1.45</u> (Max-40)	
1,4-Dichlorobenzene	106-46-7	LCS	19		20	95.2	72 - 126		
1,4-Dichlorobenzene	106-46-7	LCSD	19.30		20	96.4	72 - 126	RPD <u>1.27</u> (Max-40)	
2-Butanone	78-93-3	LCS	119		100	119	64 - 148		
2-Butanone	78-93-3	LCSD	115		100	115	64 - 148	RPD <u>3.63</u> (Max-40)	



### VOLATILE ORGANICS (cont.)

RESULTS

			<u>Result</u>	<u>Orig.</u> <u>Result</u>	<u>Spk</u> Added	Rec.			
Compound	CAS No		(ug/kg)	<u>(ug/kg)</u>	<u>(ug/kg)</u>	<u>(%)</u>	<u>Limits (%)</u>	<u>RPD Limit (%)</u>	<u>Qualifiers</u>
2-Hexanone	591-78-6	LCS	113		100	113	62 - 147		
2-Hexanone	591-78-6	LCSD	111		100	111	62 - 147	RPD <u>1.78</u> (Max-40)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	98.60		100	98.6	64 - 143		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCSD	95.90		100	95.9	64 - 143	RPD <u>2.79</u> (Max-40)	
Acetone	67-64-1	LCS	130		100	130	58 - 146		
Acetone	67-64-1	LCSD	125		100	125	58 - 146	RPD <u>4.11</u> (Max-40)	
Benzene	71-43-2	LCS	21.80		20	109	75 - 132		
Benzene	71-43-2	LCSD	21.90		20	110	75 - 132	RPD <u>0.49</u> (Max-40)	
Bromochloromethane	74-97-5	LCS	18.10		20	90.7	71 - 120		
Bromochloromethane	74-97-5	LCSD	18.50		20	92.6	71 - 120	RPD <u>2.04</u> (Max-40)	
Bromodichloromethane	75-27-4	LCS	16.40		20	82	74 - 127		
Bromodichloromethane	75-27-4	LCSD	16.10		20	80.5	74 - 127	RPD <u>1.85</u> (Max-40)	
Bromoform	75-25-2	LCS	14.10		20	70.6	68 - 131		
Bromoform	75-25-2	LCSD	14.30		20	71.4	68 - 131	RPD <u>1.22</u> (Max-40)	
Bromomethane	74-83-9	LCS	29.40		20	147	43 - 148		
Bromomethane	74-83-9	LCSD	27.60		20	138	43 - 148	RPD <u>6.27</u> (Max-40)	
Carbon Disulfide	75-15-0	LCS	18.10		20	90.7	47 - 144		
Carbon Disulfide	75-15-0	LCSD	18.10		20	90.6	47 - 144	RPD <u>0.18</u> (Max-40)	
Carbon Tetrachloride	56-23-5	LCS	17.10		20	85.4	64 - 136		
Carbon Tetrachloride	56-23-5	LCSD	16.90		20	84.3	64 - 136	RPD <u>1.29</u> (Max-40)	
Chlorobenzene	108-90-7	LCS	18.50		20	92.7	76 - 125		
Chlorobenzene	108-90-7	LCSD	18.70		20	93.4	76 - 125	RPD <u>0.77</u> (Max-40)	
Chlorodibromomethane	124-48-1	LCS	15.40		20	77.2	75 - 124		
Chlorodibromomethane	124-48-1	LCSD	15.80		20	79	75 - 124	RPD <u>2.28</u> (Max-40)	
Chloroethane	75-00-3	LCS	14		20	70.2	1 - 141		
Chloroethane	75-00-3	LCSD	13.10		20	65.7	1 - 141	RPD <u>6.72</u> (Max-40)	
Chloroform	67-66-3	LCS	20		20	99.9	73 - 126		
Chloroform	67-66-3	LCSD	19.90		20	99.4	73 - 126	RPD <u>0.52</u> (Max-40)	
Chloromethane	74-87-3	LCS	26.70		20	133	44 - 139		
Chloromethane	74-87-3	LCSD	26.20		20	131	44 - 139	RPD <u>1.69</u> (Max-40)	
cis-1,2-Dichloroethene	156-59-2	LCS	22.30		20	112	75 - 128		
cis-1,2-Dichloroethene	156-59-2	LCSD	22.40		20	112	75 - 128	RPD <u>0.24</u> (Max-40)	
cis-1,3-Dichloropropene	10061-01-5	LCS	14.90		20	74.7*	76 - 123		
cis-1,3-Dichloropropene	10061-01-5	LCSD	15.30		20	76.5	76 - 123	RPD <u>2.37</u> (Max-40)	
Cyclohexane	110-82-7	LCS	22		20	110	62 - 143		
Cyclohexane	110-82-7	LCSD	21.70		20	108	62 - 143	RPD <u>1.28</u> (Max-40)	
Dichlorodifluoromethane	75-71-8	LCS	28		20	140	16 - 152		
Dichlorodifluoromethane	75-71-8	LCSD	27.30		20	136	16 - 152	RPD <u>2.60</u> (Max-40)	
Ethylbenzene	100-41-4	LCS	19.90		20	99.6	73 - 133		
Ethylbenzene	100-41-4	LCSD	19.70		20	98.6	73 - 133	RPD 1.04 (Max-40)	
Freon 113	76-13-1	LCS	22.10		20	110*	40 - 109		
Freon 113	76-13-1	LCSD	21.40		20	107	40 - 109	RPD 3.16 (Max-40)	
Isopropylbenzene	98-82-8	LCS	19.20		20	96.2	71 - 137		
Isopropylbenzene	98-82-8	LCSD	19.50		20	97.3	71 - 137	RPD <u>1.16</u> (Max-40)	
Methyl acetate	79-20-9	LCS	23.20		20	116	70 - 130		
Methyl acetate	79-20-9	LCSD	22.40		20	110	70 - 130	RPD <u>3.52</u> (Max-40)	
Methyl cyclohexane	108-87-2	LCS	18.10		20	90.5	70 - 130	<u> </u>	
Methyl cyclohexane	108-87-2	LCSD	17.70		20	88.6	70 - 130	RPD <u>2.12</u> (Max-40)	
Methyl t-Butyl Ether	1634-04-4	LCS	21.30		20	107	70 - 118		
	1034-04-4	LUS	21.30		20	107	70 - 110		



### **VOLATILE ORGANICS (cont.)**

#### RESULTS

Compound	CAS No		<u>Result</u> (ug/kg)	<u>Orig.</u> <u>Result</u> (ug/kg)	<u>Spk</u> <u>Added</u> (ug/kg)	<u>Rec.</u> (%)	Limits (%)	RPD Limit (%)	Qualifiers
Methyl t-Butyl Ether	1634-04-4	LCSD	21.50		20	108	70 - 118	RPD <u>0.84</u> (Max-40)	
Methylene Chloride	75-09-2	LCS	19.60		20	98.2	68 - 133		
Methylene Chloride	75-09-2	LCSD	20.10		20	100	68 - 133	RPD <u>2.30</u> (Max-40)	
mp-Xylene	108383/106423	LCS	34.10		40	85.3	72 - 130		
mp-Xylene	108383/106423	LCSD	33.70		40	84.3	72 - 130	RPD <u>1.16</u> (Max-40)	
o-Xylene	95-47-6	LCS	15.30		20	76.4	75 - 129		
o-Xylene	95-47-6	LCSD	15.40		20	77	75 - 129	RPD <u>0.74</u> (Max-40)	
Styrene	100-42-5	LCS	17.60		20	87.9	77 - 130		
Styrene	100-42-5	LCSD	17.70		20	88.7	77 - 130	RPD <u>1</u> (Max-40)	
Tetrachloroethene	127-18-4	LCS	16.60		20	82.9	58 - 137		
Tetrachloroethene	127-18-4	LCSD	16.50		20	82.4	58 - 137	RPD <u>0.63</u> (Max-40)	
Toluene	108-88-3	LCS	18.60		20	92.9	73 - 129		
Toluene	108-88-3	LCSD	18.50		20	92.5	73 - 129	RPD <u>0.46</u> (Max-40)	
Total Xylenes	1330-20-7	LCS	49.40		60	82.3	73 - 130		
Total Xylenes	1330-20-7	LCSD	49.10		60	81.9	73 - 130	RPD <u>0.57</u> (Max-40)	
trans-1,2-Dichloroethene	156-60-5	LCS	21.30		20	106	66 - 133		
trans-1,2-Dichloroethene	156-60-5	LCSD	21.50		20	108	66 - 133	RPD <u>1.16</u> (Max-40)	
trans-1,3-Dichloropropene	10061-02-6	LCS	16.60		20	83.1	77 - 123		
trans-1,3-Dichloropropene	10061-02-6	LCSD	16.70		20	83.5	77 - 123	RPD <u>0.51</u> (Max-40)	
Trichloroethene	79-01-6	LCS	20.20		20	101	72 - 129		
Trichloroethene	79-01-6	LCSD	20.60		20	103	72 - 129	RPD <u>1.81</u> (Max-40)	
Trichlorofluoromethane	75-69-4	LCS	25.90		20	129	40 - 130		
Trichlorofluoromethane	75-69-4	LCSD	23.10		20	116	40 - 130	RPD <u>11.30</u> (Max-40)	
Vinyl Chloride	75-01-4	LCS	26.30		20	132	53 - 141		
Vinyl Chloride	75-01-4	LCSD	24.90		20	124	53 - 141	RPD <u>5.76</u> (Max-40)	

#### SURROGATES

			<u>Result</u>	Expected	Rec.		
Compound	CAS No		<u>(ug/kg)</u>	<u>(ug/kg)</u>	<u>(%)</u>	<u>Limits (%)</u>	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	LCS	25.70	30	85.8	56 - 124	
1,2-Dichloroethane-d4	17060-07-0	LCSD	25.20	30	84	56 - 124	
4-Bromofluorobenzene	460-00-4	LCS	23.50	30	78.3	51 - 128	
4-Bromofluorobenzene	460-00-4	LCSD	23.90	30	79.8	51 - 128	
Dibromofluoromethane	1868-53-7	LCS	21	30	69.9	62 - 123	
Dibromofluoromethane	1868-53-7	LCSD	21.10	30	70.3	62 - 123	
Toluene-d8	2037-26-5	LCS	23.20	30	77.3	59 - 131	
Toluene-d8	2037-26-5	LCSD	23.10	30	77	59 - 131	



### WET CHEMISTRY

	- QC Ba	atch –					Associate	ed Sarr	nples			
	<u>QC Batch</u> <u>Date</u> <u>Tech.</u>	936291 N/A	<u>Prep Meth</u> <u>Analysis N</u>		N/A S2540G-11		3282987001 3282987005 3282987009 3282987013 3282987017	32829 32829 32829 32829	987002 987006 987010 987014 987018	3282987003 3282987007 3282987011 3282987015 3282987019	3282 3282	2987004 2987008 2987012 2987016
Duplicate			3611	1927 (D	DUP)	328292800	)1 (non-Project Sa	ample)		For QC	Batch	936291
				alculating		d Duplicate Result plicate percent reco						
RESULTS					- 4							
<u>Compound</u>			CAS No		<u>Result</u> (%)	<u>Orig. Result</u> (%)						Qualifiers
Moisture			MOISTURE	DUP	19.9829	16.8614		RPD	<u>16.90*</u>	<u>*</u> (Max-10)		
Total Solids			TSP	DUP	80.0170	83.1385		RPD				
Duplicate			3611	1928 (D	DUP)	328294600	)1 (non-Project Sa	ample)		For QC	Batch	936291
				alculating		d Duplicate Result plicate percent reco						
RESULTS					Result	<u>Orig. Result</u>						
<u>Compound</u>			CAS No		<u>(%)</u>	<u>(%)</u>						<u>Qualifiers</u>
Moisture			MOISTURE	DUP	17.3983	15.6132		RPD	<u>10.80*</u>	<u>*</u> (Max-10)		
Total Solids			TSP	DUP	82.6016	84.3867		RPD	<u>2.14</u>	(Max-5)		
Duplicate			3611	1929 (D	DUP)	328298100	)1 (non-Project Sa	ample)		For QC	Batch	936291
				alculating		d Duplicate Result plicate percent reco						
RESULTS					·							
2 may and			CAS No		<u>Result</u> (%)	<u>Orig. Result</u> <u>(%)</u>						Ovalifiare
<u>Compound</u> Moisture			MOISTURE	DUP	0.2896	0.3043		RPD	4.95	(Max-10)		<u>Qualifiers</u>
Total Solids			TSP	DUP	99.7103	99.6956		RPD		(Max-5)		
Duplicate			3611	1932 (D	DUP)	328307100	)1 (non-Project Sa	ample)		For QC	Batch	936291
				alculating		d Duplicate Result plicate percent reco						



### WET CHEMISTRY (cont.)

#### RESULTS

		Result	<u>Orig. Result</u>				
Compound	CAS No	<u>(%)</u>	<u>(%)</u>				Qualifiers
Moisture	MOISTURE DUP	93.0838	93.2547	RPD	<u>0.18</u>	(Max-10)	
Total Solids	TSP DUP	6.9161	6.7452	RPD	<u>2.50</u>	(Max-5)	
Duplicate	3611930 (	DUP)	3282987008			For QC Batch	936291
			I Duplicate Result show licate percent recoveri			nd are only used for the value and cannot be	
RESULTS							
Compound	CAS No	<u>Result</u> (%)	<u>Orig. Result</u> (%)				Qualifiers
Moisture	MOISTURE DUP	17.4667	18.0658	RPD	<u>3.37</u>	(Max-10)	
Total Solids	TSP DUP	82.5332	81.9341	RPD	<u>0.73</u>	(Max-5)	
Duplicate	3611931 (	DUP)	3282987018			For QC Batch	936291
			I Duplicate Result show licate percent recoveri			nd are only used for the value and cannot be	
RESULTS Compound	<u>CAS No</u>	<u>Result</u> (%)	<u>Orig. Result</u> (%)				Qualifiers
Moisture	MOISTURE DUP	19.5172	19.1969	RPD	1.65	(Max-10)	
Total Solids	TSP DUP	80.4827	80.8030	RPD	0.40	(Max-5)	
QC Batch – <u>QC Batch</u> 936302 <u>Date</u> N/A <u>Tech.</u>	<u>Prep Method</u> <u>Analysis Method</u>	N/A S2540G-11	-		<b>ples</b> 084002 084006	3283084003 328	3084004
Duplicate	3611970 (	DUP)	3282810002 (n	on-Project Sample)		For QC Batch	936302
			I Duplicate Result show licate percent recoveri			nd are only used for the value and cannot be	
RESULTS		Booult	Orig Door!!!				
<u>Compound</u>	CAS No	<u>Result</u> <u>(%)</u>	<u>Orig. Result</u> <u>(%)</u>				Qualifiers
Moisture	MOISTURE DUP	98.7384	97.9914	RPD	<u>0.76</u>	(Max-10)	
Total Solids	TSP DUP	1.2615	2.0085	RPD		(Max-5)	



# WET CHEMISTRY (cont.)

Duplicate	36	611971 ([	DUP)	3282811002 (non-P	roject Sample)		For QC Batch	936302
		f calculating		d Duplicate Result shown b licate percent recoveries. T				
RESULTS								
Compound	<u>CAS No</u>		<u>Result</u> (%)	<u>Orig. Result</u> (%)				Qualifiers
Moisture	MOISTURE	DUP	97.9374	97.8760	RPD	0.06	(Max-10)	Quaimers
Total Solids	TSP	DUP	2.0625	2.1239	RPD		(Max-10)	
	154	DUP	2.0625	2.1237	NF D	2.95		
Duplicate	36	611973 ([	DUP)	3283154002 (non-P	roject Sample)		For QC Batch	936302
		f calculating		d Duplicate Result shown b licate percent recoveries. T				
RESULTS								
<u>Compound</u>	CAS No		<u>Result</u> (%)	<u>Orig. Result</u> <u>(%)</u>				Qualifiers
Moisture	MOISTURE	DUP	4.3684	4.4157	RPD	<u>1.08</u>	(Max-10)	
Total Solids	TSP	DUP	95.6315	95.5842	RPD	<u>0.05</u>	(Max-5)	
Duplicate	36	611974 ([	DUP)	3283185001 (non-P	roject Sample)		For QC Batch	936302
Duplicate	****NOTE	- The Origi f calculating	inal Result and	3283185001 (non-P d Duplicate Result shown b licate percent recoveries. T	elow are raw res		nd are only used for the	<u>936302</u>
Duplicate RESULTS	****NOTE purpose of	- The Origi f calculating	inal Result and	d Duplicate Result shown b	elow are raw res		nd are only used for the	<u>936302</u>
	****NOTE purpose of	- The Origi f calculating	inal Result and	d Duplicate Result shown b	elow are raw res		nd are only used for the	
RESULTS	****NOTE purpose o used as su	- The Origi f calculating	inal Result and g Sample Dup <u>Result</u>	d Duplicate Result shown b licate percent recoveries. T <u>Orig. Result</u>	elow are raw res	a final	nd are only used for the	
RESULTS Compound	****NOTE purpose o used as su <u>CAS No</u>	- The Origi f calculatin uch.	inal Result and g Sample Dup <u>Result</u> (%)	d Duplicate Result shown b licate percent recoveries. T <u>Orig. Result</u> (%)	elow are raw res his result is not	a final	nd are only used for the value and cannot be	
RESULTS Compound Moisture	****NOTE purpose or used as su <u>CAS No</u> MOISTURE TSP	- The Origi f calculating uch. DUP DUP	inal Result and g Sample Dup <u>Result</u> (%) 8.5065	d Duplicate Result shown b licate percent recoveries. T <u>Orig. Result</u> (%) 8.4154	elow are raw res 'his result is not RPD	a final	nd are only used for the value and cannot be (Max-10)	Qualifiers
RESULTS Compound Moisture Total Solids	****NOTE purpose or used as su <u>CAS No</u> MOISTURE TSP 36 ****NOTE	- The Origi f calculating uch. DUP DUP 511972 (I - The Origi f calculating	Result and g Sample Dup <u>Result</u> (%) 8.5065 91.4934 DUP) inal Result and	d Duplicate Result shown b licate percent recoveries. T <u>Orig. Result</u> (%) 8.4154 91.5845	elow are raw res 'his result is not RPD RPD	<u>1.08</u> 0.10	nd are only used for the value and cannot be (Max-10) (Max-5) For QC Batch nd are only used for the	Qualifiers
RESULTS Compound Moisture Total Solids	****NOTE purpose or used as su <u>CAS No</u> MOISTURE TSP 36 ****NOTE purpose or	- The Origi f calculating uch. DUP DUP 511972 (I - The Origi f calculating	Result and g Sample Dup <u>Result</u> (%) 8.5065 91.4934 DUP) inal Result and	d Duplicate Result shown b licate percent recoveries. T <u>Orig. Result</u> (%) 8.4154 91.5845 3283084006 d Duplicate Result shown b	elow are raw res 'his result is not RPD RPD	<u>1.08</u> 0.10	nd are only used for the value and cannot be (Max-10) (Max-5) For QC Batch nd are only used for the	Qualifiers
RESULTS Compound Moisture Total Solids Duplicate	****NOTE purpose or used as su <u>CAS No</u> MOISTURE TSP 36 ****NOTE purpose or	- The Origi f calculating uch. DUP DUP 511972 (I - The Origi f calculating	Result and g Sample Dup <u>Result</u> (%) 8.5065 91.4934 DUP) inal Result and	d Duplicate Result shown b licate percent recoveries. T <u>Orig. Result</u> (%) 8.4154 91.5845 3283084006 d Duplicate Result shown b	elow are raw res 'his result is not RPD RPD	<u>1.08</u> 0.10	nd are only used for the value and cannot be (Max-10) (Max-5) For QC Batch nd are only used for the	Qualifiers
RESULTS Compound Moisture Total Solids Duplicate RESULTS	****NOTE purpose of used as su CAS No MOISTURE TSP 36 ****NOTE purpose of used as su	- The Origi f calculating uch. DUP DUP 511972 (I - The Origi f calculating	inal Result and g Sample Dup <u>Result</u> (%) 8.5065 91.4934 DUP) inal Result and g Sample Dup <u>Result</u>	d Duplicate Result shown b licate percent recoveries. T <u>Orig. Result</u> (%) 8.4154 91.5845 3283084006 d Duplicate Result shown b licate percent recoveries. T <u>Orig. Result</u>	elow are raw res 'his result is not RPD RPD	<u>1.08</u> 0.10	nd are only used for the value and cannot be (Max-10) (Max-5) For QC Batch nd are only used for the	Qualifiers



# WET CHEMISTRY (cont.)

QC Batch						A	ssociated	Samples			
<u>QC Batch</u> 9363 <u>Date</u> 01/18, <u>Tech.</u> АКН	/2023 09:02	<u>Prep Metho</u> <u>Analysis Me</u>		SW846 3060A SW846 7196A		32829 32829 32829	987001 987005 987009	3282987002 3282987006 3282987010	3282987007 3282987011	3282987004 3282987008 3282987012	8 2
							987013 987017	3282987014	3282987015	3282987016	; 
Duplicate		36121	09 (DU	JP)	328292000	 04 (non-P	roject Sam	nple)	For QC	Batch <u>9363</u> 4	40
									nd are only used f I value and cannot		
RESULTS				- 4							
<u>Compound</u>	CAS	No		<u>Result</u> (mg/kg)	<u>Orig. Result</u> (mg/kg)					Q	ualifiers
Hexavalent Chromium	CR6		DUP	0.4607	0.3777		F	RPD <u>19.80</u>	<u>)</u> (Max-20)	-	ND
			10 (MAS		22820200			ι - <b>λ</b>			
Pre-digestion Soluble MS				al Result showr		<i>w</i> result ar	nd is only u	used for the	purpose of calcula	Batch <u>93634</u> ating	<u>40</u>
RESULTS			-	<u>Orig.</u>		Rec.					
Compound	CAS No		<u>Resu</u> (mg/kg			<u>Kec.</u> (%)	<u>Limits (%</u>	<u>6) RI</u>	PD Limit (%)	<u>Q</u>	ualifiers
Hexavalent Chromium	CR6	MS	28.30		39.20	71.1*	75 - 125	5			
Pre-digestion Insoluble MS		36121	11 (MS		32829200	∩4 (non-P	roiect Sarr	nnle)	For QC	Batch 93634	40
	,		``	,	0202020	J <del>4</del> (15	-	ipic)	•	Daton	+0
		Matrix Spike pe							purpose of calcula as such.	ating	
RESULTS				ecoveries. This	result is not a f	final value				ating	
			ercent re <u>Resu</u>	ecoveries. This Orig. Itt <u>Resul</u>	result is not a f	final value <u>Rec.</u>	and canno	ot be used a	as such.		ualifiers
RESULTS Compound Hexavalent Chromium	CAS No CR6		ercent re	ecoveries. This Orig. Itt <u>Resul</u>	result is not a f	final value		<u>ot be used a</u>			ualifiers
<u>Compound</u> Hexavalent Chromium		Matrix Spike pe	Resul (mg/kg 545	orig. Orig. <u>Ilt Resul</u> <u>g) (mg/kc</u> 0.38	<u>Spk</u> <u>Added</u> <u>(mg/kg)</u> <u>627</u>	final value <u>Rec.</u> (%) 86.7	and canno Limits (% 75 - 129	10t be used a (6) <u>RF</u> 15	PD Limit (%)	Q	
Compound		Matrix Spike pe MS 361211	Resul (mg/kg 545 12 (MS e Origina	Orig. Ut Resul g) (mg/kg 0.38 SPOST)	<u>Spk</u> <u>Added</u> <u>g) (mg/kg)</u> 328292000 n below is a rav	final value <u>Rec.</u> (%) 86.7 04 (non-P w result ar	Limits (% 75 - 12 Project Sam	(6) Rf (5) Rf (5) nple) used for the	PD Limit (%) For QC	Q Batch <u>9363</u>	
Compound Hexavalent Chromium Post-digestion MS		Matrix Spike pe Ms 361211 ****NOTE - The	Resul (mg/kg 545 12 (MS e Origina	Orig. Ut Resul g) (mg/kg 0.38 SPOST)	<u>Spk</u> <u>Added</u> <u>g) (mg/kg)</u> 328292000 n below is a rav	final value <u>Rec.</u> (%) 86.7 04 (non-P w result ar	Limits (% 75 - 12 Project Sam	(6) Rf (5) Rf (5) nple) used for the	PD Limit (%) For QC	Q Batch <u>9363</u>	
<u>Compound</u> Hexavalent Chromium		Matrix Spike pe Ms 361211 ****NOTE - The	Resul (mg/kg 545 12 (MS e Origina ercent re	Orig. Ut Resul g) (mg/kc 0.38 SPOST) al Result showr coveries. This Orig.	<u>Spk</u> <u>Lt Added</u> <u>g) (mg/kg)</u> 328292000 n below is a raw result is not a f	final value <u>Rec.</u> (%) 86.7 04 (non-P w result ar final value	Limits (% 75 - 12 Project Sam	(6) Rf (5) Rf (5) nple) used for the	PD Limit (%) For QC	Q Batch <u>9363</u>	
Compound Hexavalent Chromium Post-digestion MS		Matrix Spike pe Ms 361211 ****NOTE - The	Resul (mg/kg 545 12 (MS e Origina	Coveries. This Orig. Ut Resul g) (mg/kc 0.38 COVERTION C	<u>Spk</u> <u>Lt Added</u> <u>g) (mg/kg)</u> 627 328292000 n below is a rav result is not a f	final value <u>Rec.</u> (%) 86.7 04 (non-P w result ar	Limits (% 75 - 12 Project Sam	not be used a	PD Limit (%) For QC	Q Batch <u>9363</u>	

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### WET CHEMISTRY (cont.)

Method Blank	3612107 (ME	3)	Created	on <u>01/17/2023 13:04</u>	For QC Batch	936340
RESULTS						
Compound	CAS No		Result Units	<u>RDL</u>		<u>Qualifiers</u>
Hexavalent Chromium	CR6	BLK	ND mg/kg	1.9		ND
Lab Control Standard	3612108 (LC	S)	Created	on <u>01/17/2023 13:04</u>	For QC Batch	936340
RESULTS		<u>Orig.</u>	<u>Spk</u>	Rec.		
Compound CAS	<u>No</u> <u>(mg/kg</u>		<u>Added</u> (mg/kg)	(%) Limits (%)	RPD Limit (%)	Qualifiers
Hexavalent Chromium CR6	LCS 17.10		20	85.3 80 - 120		
QC Batch           QC Batch         936353           Date         01/18/2023 13:4           Tech.         AKH		SW846 3060A SW846 7196A		Associated Sample           3282987018         328298           3283084003         328308	7019 3283084001 328	3084002 3084006
Duplicate		I Result and Dup	licate Result s		For QC Batch Its and are only used for the final value and cannot be	936353
RESULTS		<u>Result O</u>	orig. Result			
<u>Compound</u> <u>C</u>	AS No	(mg/kg)	(mg/kg)			<u>Qualifiers</u>
Hexavalent Chromium Cl	R6 DUP	0	0	RPD	<u>0</u> (Max-20)	ND
Pre-digestion Soluble MS		l Result shown b	elow is a raw r	(non-Project Sample) esult and is only used fo al value and cannot be u	For QC Batch	936353
	mann opike percent le		Suit is not a fille			
RESULTS	Resul	<u>Orig.</u> It Result	<u>Spk</u> Added	Rec.		
Compound CAS	No (mg/kg		<u>Added</u> (mg/kg)	(%) Limits (%)	RPD Limit (%)	<u>Qualifiers</u>
Hexavalent Chromium CR6	MS 0	0	39.70	0* 75 - 125		ND
Pre-digestion Insoluble MS	3612172 (MS ****NOTE - The Origina			(non-Project Sample) esult and is only used for	For QC Batch	936353
				al value and cannot be u		



### WET CHEMISTRY (cont.)

RESULTS				Orig	Sple				
<u>Compound</u> Hexavalent Chromium	<u>CAS No</u> CR6	MS	<u>Result</u> (mg/kg) 262	Orig. <u>Result</u> (mg/kg) 0	<u>Spk</u> <u>Added</u> (mg/kg) 627	<u>Rec.</u> <u>(%)</u> 41.8*	<u>Limits (%)</u> 75 - 125	RPD Limit (%)	Qualifiers
Post-digestion MS		361217	'3 (MSPOS	 ST)	32827510	27 (non-F	Project Sample)	For QC Batch	936353
			0				nd is only used fo e and cannot be u	or the purpose of calculating used as such.	
RESULTS									
<u>Compound</u>	CAS No		<u>Result</u> (mg/kg)	<u>Orig.</u> <u>Result</u> (mg/kg)	<u>Spk</u> <u>Added</u> (mg/kg)	<u>Rec.</u> (%)	Limits (%)	RPD Limit (%)	Qualifiers
Hexavalent Chromium	CR6	MS	1.60	0	40	4.03*	85 - 115		ND
Method Blank		361216	68 (MB)		Creat	ed on <u>01</u>	/17/2023 14:13	For QC Batch	936353
Method Blank RESULTS		361216	8 (MB)		Creat	ed on <u>01</u>	/17/2023 14:13	For QC Batch	<u>936353</u>
		361216	8 (MB)		Creat			For QC Batch	<u>936353</u> Qualifiers
RESULTS				BLK		ts	<u>/17/2023 14:13</u> <u>RDL</u> 2.0	For QC Batch	
RESULTS Compound		<u>CAS No</u>			<u>Result Uni</u>	ts	RDL	For QC Batch	Qualifiers
RESULTS Compound		<u>CAS No</u>	BI		<u>Result</u> <u>Uni</u> ND mg/l	ts kg	RDL	For QC Batch	Qualifiers ND
RESULTS Compound Hexavalent Chromium		<u>CAS No</u> CR6	BI 59 (LCS)	<u>Orig.</u>	<u>Result</u> <u>Uni</u> ND mg/I Creat	ts kg ed on <u>01</u> ,	<u>RDL</u> 2.0		Qualifiers ND
RESULTS Compound Hexavalent Chromium Lab Control Standard	<u>CAS No</u>	<u>CAS No</u> CR6	BI	BLK	<u>Result</u> <u>Uni</u> ND mg/l Creat	ts kg	<u>RDL</u> 2.0		Qualifiers ND



#### QUALITY CONTROL DATA CROSS REFERENCE TABLE

ab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
282987001	SB-03-0-2	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
		SW846 7471B	936955	01/19/2023 10:45	WDA	SW846 7471B	937216
		SW846 5035A	936310	01/11/2023 09:25	JTH	SW846 8260B	936311
		N/A	N/A	N/A		Calculation	000004
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
282987002	SB-03-8-10	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
		SW846 7471B	936955	01/19/2023 10:45	WDA	SW846 7471B	937216
		SW846 5035A	936471	01/11/2023 09:30	DD	SW846 8260B	936472
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
282987003	SB-02-0-2	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
		SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937237
		SW846 7471B	936955	01/19/2023 10:45	WDA	SW846 7471B	937216
		SW846 5035A	936310	01/11/2023 10:40	JTH	SW846 8260B	936311
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
282987004	SB-02-10-12	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
		SW846 7471B	936955	01/19/2023 10:45	WDA	SW846 7471B	937216
		SW846 5035A	936310	01/11/2023 10:45	JTH	SW846 8260B	936311
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
282987005	SB-04-0-2	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
		SW846 7471B	936955	01/19/2023 10:45	WDA	SW846 7471B	937216
		SW846 5035A	936471	01/11/2023 11:40	DD	SW846 8260B	936472
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
282987006	SB-04-14-16	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
		SW846 7471B	936955	01/19/2023 10:45	WDA	SW846 7471B	937216
		SW846 5035A	936310	01/11/2023 11:45	JTH	SW846 8260B	936311
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
282987007	SB-05-0-2	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
		SW846 7471B	936955	01/19/2023 10:45	WDA	SW846 7471B	937216
		SW846 5035A	936310	01/11/2023 12:55	JTH	SW846 8260B	936311
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
282987008	SB-05-4-6	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
		SW846 7471B	936955	01/19/2023 10:45	WDA	SW846 7471B	937216
		SW846 5035A	936310	01/11/2023 13:00	JTH	SW846 8260B	936311
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
282987009	SB-06-0-2	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
001003	<u>55-00-0-2</u>	SW846 7471B	936955	01/19/2023 10:45	WDA	SW846 7471B	937216
		SW846 5035A	936310	01/11/2023 14:30	JTH	SW846 8260B	936311
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
202007040	SD 06 9 40	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
202901010	SB-06-8-10	SW846 7471B	936955	01/19/2023 10:45	WDA	SW846 7471B	937216
		SW846 5035A	936310	01/11/2023 14:35	JTH	SW846 8260B	936311
		N/A	930310 N/A	N/A	0111	Calculation	300011
		N/A N/A	N/A	N/A		S2540G-11	936291

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#### Project 2022FMA SCI Pittsburgh Phase I

#### Workorder 3282987



Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3282987011	SB-07-0-2	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
		SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937237
		SW846 7471B	936955	01/19/2023 10:45	WDA	SW846 7471B	937216
		SW846 5035A	936310	01/11/2023 15:25	JTH	SW846 8260B	936311
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
2292097012	CD 07 0 4	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
3282987012	SB-07-2-4	SW846 7471B	936955	01/19/2023 10:45	WDA	SW846 7471B	937216
		SW846 5035A	936310	01/11/2023 15:30	JTH	SW846 8260B	936311
		N/A	N/A	N/A	0111	Calculation	000011
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
3282987013	SB-01-0-2	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
		SW846 7471B	936955	01/19/2023 10:45	WDA	SW846 7471B	937216
		SW846 5035A	936310	01/12/2023 09:50	JTH	SW846 8260B	936311
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
3282987014	SB-01-10-12	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
	-	SW846 7471B	936956	01/19/2023 10:45	WDA	SW846 7471B	937217
		SW846 5035A	936310	01/12/2023 09:55	JTH	SW846 8260B	936311
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
2202007045	CD 44 0 0	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
3282987015	SB-11-0-2	SW846 7471B	936956	01/19/2023 10:45	WDA	SW846 7471B	937217
		SW846 7471B SW846 5035A					936472
			936471	01/12/2023 13:15	DD	SW846 8260B	930472
		N/A	N/A	N/A		Calculation	000004
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
3282987016	SB-11-6-8	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
		SW846 7471B	936956	01/19/2023 10:45	WDA	SW846 7471B	937217
		SW846 5035A	937065	01/12/2023 13:20	DD	SW846 8260B	937066
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
3282987017	SB-12-0-2	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
0202001011		SW846 7471B	936956	01/19/2023 10:45	WDA	SW846 7471B	937217
		SW846 5035A	937065	01/12/2023 12:20	DD	SW846 8260B	937066
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936340	01/18/2023 09:02	AKH	SW846 7196A	936533
	00.40.45.45						
3282987018	SB-12-10-12	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
		SW846 7471B	936956	01/19/2023 10:45	WDA	SW846 7471B	937217
		SW846 5035A	936471	01/12/2023 12:25	JTH	SW846 8260B	936472
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936353	01/18/2023 13:40	AKH	SW846 7196A	936600
3282987019	SB-12-10-12D	SW846 3051A	936329	01/18/2023 11:10	JSE	SW846 6020A	937166
	-	SW846 7471B	936956	01/19/2023 10:45	WDA	SW846 7471B	937217
		SW846 5035A	937065	01/12/2023 12:30	DD	SW846 8260B	937066
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936291
		SW846 3060A	936353	01/18/2023 13:40	AKH	SW846 7196A	936600
2202024024	CD 40.0.0	SW846 3051A	936330	01/18/2023 11:10	JSE	SW846 6020A	937237
3283084001	SB-10-0-2	SW846 3051A SW846 3051A	936330	01/18/2023 11:10	JSE JSE	SW846 6020A SW846 6020A	937181
		SW846 7471B SW846 5035A	936956 937065	01/19/2023 10:45	WDA	SW846 7471B	937217
			43/Uhh	01/13/2023 09:10	DD	SW846 8260B	937066
							001000
		N/A	N/A	N/A		Calculation	
					АКН		936302 936600

#### Project 2022FMA SCI Pittsburgh Phase I

#### Workorder 3282987



Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	Ву	Analysis Method	Anly Batch
3283084002	SB-10-4-6	SW846 3051A	936330	01/18/2023 11:10	JSE	SW846 6020A	937181
		SW846 7471B	936956	01/19/2023 10:45	WDA	SW846 7471B	937217
		SW846 5035A	936471	01/13/2023 09:15	JTH	SW846 8260B	936472
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936302
		SW846 3060A	936353	01/18/2023 13:40	AKH	SW846 7196A	936600
3283084003	SB-09-0-2	SW846 3051A	936330	01/18/2023 11:10	JSE	SW846 6020A	937181
		SW846 7471B	936956	01/19/2023 10:45	WDA	SW846 7471B	937217
		SW846 5035A	937065	01/13/2023 09:30	DD	SW846 8260B	937066
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936302
		SW846 3060A	936353	01/18/2023 13:40	AKH	SW846 7196A	936600
3283084004	SB-09-4-6	SW846 3051A	936330	01/18/2023 11:10	JSE	SW846 6020A	937237
		SW846 3051A	936330	01/18/2023 11:10	JSE	SW846 6020A	937181
		SW846 7471B	936956	01/19/2023 10:45	WDA	SW846 7471B	937217
		SW846 5035A	937065	01/13/2023 09:45	DD	SW846 8260B	937066
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936302
		SW846 3060A	936353	01/18/2023 13:40	AKH	SW846 7196A	936600
3283084005	SB-08-0-2	SW846 3051A	936330	01/18/2023 11:10	JSE	SW846 6020A	937237
		SW846 3051A	936330	01/18/2023 11:10	JSE	SW846 6020A	937181
		SW846 7471B	936956	01/19/2023 10:45	WDA	SW846 7471B	937217
		SW846 5035A	937065	01/13/2023 10:30	DD	SW846 8260B	937066
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936302
		SW846 3060A	936353	01/18/2023 13:40	AKH	SW846 7196A	936600
3283084006	SB-08-6-8	SW846 3051A	936330	01/18/2023 11:10	JSE	SW846 6020A	937181
		SW846 7471B	936956	01/19/2023 10:45	WDA	SW846 7471B	937217
		SW846 5035A	936471	01/13/2023 10:35	JTH	SW846 8260B	936472
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		S2540G-11	936302
		SW846 3060A	936353	01/18/2023 13:40	AKH	SW846 7196A	936600

COC #: 2282987 Logged By: ME PM: EXP COL	to free manual distance to	Temp Taken By: Therm ID: WO Temp (°C)	Rece Temp By: WO Temp (°C) Therm ID L6°C Y N NA Coo Coo Coo	for Completed Bv: DPB	Cooler Custody Seal Intact		Cooler & Samples Intact Correct Containers Provided Sample Label/COC Agree Adequate Sample Volumes		VOA UP Sampres met contact: VOA Headspace Present Y N NA Client contact: NJ Voa Trip Blank Y N NA ale/fech.	NJ≤ 4 Uaysr Rad Screen (uCi) Courier/Tracking#:		SDWA PWSID wv/Containers 0.6°C Y NO urce Contact:		SDWA Sample Tune Kev: D=Distribution E-E-4-1 D-21	R=Raw P=Plant C=Check S=Special A=Annual Startup	Co14 2988 1572	6019 2348 1594	() a 2458 (10.02	1 Sampler	000 (1) (1) (1)	Internal User If less than 48 hours - notify 145 (NO)			Standard Lvi 3 NJ RED NJ GW	Standard Lvi 4 NJ Full	Excel Summary Sample Disposal	Equis	EDDS: Format Type other	-Sunace water, WF=Wipe, WW=Wastewater Rew 1114 22
CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER INSTRUCTIONS ON THE BACK	Container Type Q C	Unitation O(	Size C O C	value 2 Une mish	red? Y N NA Hexavalent Chromium Filtered? Y	ANALYSIS / METHOD REQUESTED	917 570	5 1 1 1 1	24-2) 17]	e bottod A		16M* 3	-	5 H -	- T 5	5 H -	<u> </u>							e Received By / Company Name	2 7	100 101 - 113 123 04 :00 1	9	 *Matrix - A=Air, D=Drinking Water, GW=Groundwater, D=Oit   W=1 inning Waster, S=S-hirdS-nitStrutons, SW	ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057
301 Fulling Mill Rd, Suite A Middletown, PA 17057 P. 717-944-5541	Client Name: Khora COGIN DO TS Contain		555 KOUSE KURN	March 21. 00 1C1/0	1-001 ( m/r 1+ 1) 100	Each Wich	Project Name#: らし アレナ わんを正 23 /1 Bill To:	ise Order #:	TAT X Normal-Standard TAT is 10-12 business days.	Date Required: Approved? Type Email?	meS A	mm/dd/vv hh:mm	-03-0-2 1111239:25	2 2 2 2 - 0 3 - 8 - 10 1 9:30 6	573-02-	5(2-02-10-12 1 10:45	20-04-0-2 MI123	· 55-64-14-10 1:45	-1-20-	0-0-2	06-8-10	Circle Sample Collector: ALS Tech / Client Comments:	Name: D:		11/1/13 11/00 7 Jun / 1/20	23 (230 3	1/13/23 3 4x aup	<ul> <li>G=Grab; C=Composite</li> </ul>	1

	iviidaletown, PA 17057 P. 717-944-5541			REQUEST FOR ANALYSIS	
(ALS)		ALL	SAI	JEU AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.	ALS Quote #:
Client Name: Rhen F	End. Neur	Container Type	J		Receipt Information (completed by Receiving Lab)
	-1	Containar			Temp Taken By: Therm ID: WO Temp (°C)
55]	10~xc 1: 20.4 20)		208 8	2	WV Containers 0
N 00 1	non two ph istra				Sample Custody Seals Intact Y N NA Deviations? NO YES
	Shine I with				· · · ·
Contact. 7.1.1.		Orthoph	Orthophosphate Filtered?	Itered? Y N NA Hexavalent Chromium Filtered? Y N NA	Coolers & Samples Intact Y N
ľ	( <del>K</del> )		-	ANALYSIS / METHOD REQUESTED	Correct Containers Provided Y N
					Sample Label/COC Agree Y N
Rill Tri	t Joung 1	) 	) ,		Υ.
Piirchaea Order #-			17		VOA only: Headspace Present Y N NA
+++   Normal-Standard T	Normal-Standard TAT is 10-12 husiness days		<u>ک</u> ۱		N Y
IAI Rush-Subject to AL	Rush-Subject to ALS approval and surcharges.		510-64		Date/
Email?	Approved?	(T sigmination of the second s	MU 7		Sample(s) for Radiation testing? Y N Rad Screen (uCi) Reportable SDWA Samula(s') Y N MALLO
Sample Description/Location (as it will annear on the lah report)	Date Collected	3 or C			-
1 58-07-0-7	1/11/5 15.75			Enter Number of Containers Per Sample or Field Results Below.	PWSID #
1501	(a41/	20-			PWS Contact. PWS Phone #:
	52/11/11				le Tvpe Kev: D=Dis
10-90	1/12/23				R=Raw P=Plant C=Check S=Special A=Annual Startup
4 58-01-10-12	1/12/23 9:53				
5 SB-11-0-2	13:15				Terra Core kat I IK IMLed PI
6 58-11-6-8	13.20				
7 58-12-0-2	02:21		1		
1-01-21-85 8	<u>52:21 7</u>				
9 SB-17-10-1	05;21 / 02		<b>†</b>		
10					Contains Short Hold Lesting YES NO
Circle Sample Collector: ALS Tech / Client	Fech / Client Comments:		-		Internal Use: If less than 48 hours - no
	ä				Standard Lv1 CLP-like HSCA
Date: Time	Relinquished By / Company Name	ny Name		Beceived By / Company Namo	
112/23 17:00 1	$\mathcal{H}$	here	2	SIV C 411	
112223 1730 3	Alac +		4	POINT 120 0 00 00 100	Evcel Summary
	1 Fide		9	11	
			8		
<b>6</b>			9	EDDS:	
	* G=Grah. C=Composite		0	**************************************	





301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: PJLA 74618 State Certifications: FL E871113, WA C999, MD 128, VA 460157, WV DW 9961-C, WV 343

Analytical Results Report For	Rhea Engi	neers & Consultants, Inc.
	Project	2022FMA SCI Pittsburgh Phase I
	Workorder	<u>3282926</u>
	Report ID	222596 on 2/3/2023

#### **Certificate of Analysis**

Enclosed are the analytical results for samples received by the laboratory on Jan 13, 2023.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Elizabeth Parker (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at

www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Global. ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):

Zach Wicks - Rhea Engineers & Consultants, Inc.

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Elizabeth Parker

Elizabeth Parker Project Coordinator (ALS Digital Signature)

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# Sample Summary

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collector	Collection Company
3282926001	MW-03	Ground Water	01/12/2023 14:00	01/13/2023 09:02	CBC	Collected By Client
						•
3282926002	MW-02	Ground Water	01/12/2023 12:25	01/13/2023 09:02	CBC	Collected By Client
3282926003	MW-04	Ground Water	01/12/2023 15:40	01/13/2023 09:02	CBC	Collected By Client
3282926004	TB-01	Ground Water	01/12/2023 00:00	01/13/2023 09:02	CBC	Collected By Client
3283083001	MW-05	Ground Water	01/13/2023 12:35	01/14/2023 08:42	CBC	Collected By Client
3283083002	MW-05D	Ground Water	01/13/2023 12:40	01/14/2023 08:42	CBC	Collected By Client
3283083003	MW-06	Ground Water	01/13/2023 13:55	01/14/2023 08:42	CBC	Collected By Client
3283083004	MW-12	Ground Water	01/13/2023 15:35	01/14/2023 08:42	CBC	Collected By Client
3283083005	TB-02	Ground Water	01/13/2023 00:00	01/14/2023 08:42	CBC	Collected By Client
3283219001	MW-07	Ground Water	01/16/2023 10:55	01/17/2023 08:35	CBC	Collected By Client
3283219002	MW-11	Ground Water	01/16/2023 12:15	01/17/2023 08:35	CBC	Collected By Client
3283219003	MW-10	Ground Water	01/16/2023 13:25	01/17/2023 08:35	CBC	Collected By Client
3283219004	MW-09	Ground Water	01/16/2023 14:45	01/17/2023 08:35	CBC	Collected By Client
3283219005	MW-01	Ground Water	01/16/2023 15:45	01/17/2023 08:35	CBC	Collected By Client
3283219006	TB-03	Ground Water	01/16/2023 15:45	01/17/2023 08:35	CBC	Collected By Client
3283430001	MW-08	Ground Water	01/17/2023 16:15	01/18/2023 08:42	CBC	Collected By Client
3283430002	TB-04	Ground Water	01/17/2023 00:00	01/18/2023 08:42	CBC	Collected By Client



#### Reference

#### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

#### Standard Acronyms/Flags

J Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte U Indicates that the analyte was Not Detected (ND) above the MDL Ν Indicates presumptive evidence of the presence of a compound MDL Method Detection Limit PQL Practical Quantitation Limit RDL Practical Quantitation Limit for this Project ND Not Detected - indicates that the analyte was Not Detected Cntr Analysis was performed using this container RegLmt Regulatory Limit LCS Laboratory Control Sample MS Matrix Spike MSD Matrix Spike Duplicate DUP Sample Duplicate %Rec Percent Recovery RPD **Relative Percent Difference** LOD DoD Limit of Detection LOQ DoD Limit of Quantitation DL **DoD Detection Limit** Т Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL) (S) Surrogate Compound NC Not Calculated \* Result outside of QC limits # Please reference the result in the Results Section for analyte-level flags.

Sample ID



#### **Project Notations**

P1 This report was revised to add all the samples from ALS #3283083, 3283219 and 3283430 per the request of Zach Wicks. EXP 2/3/23

**Sample Notations** 

Lab ID



**Result Notations** 

		Result Notations
Notation Ref.		
2	The QC type LLCCV for method SW846 6020A was outside the control limits for the analyte Ca. The % RSD was reported as 20.8 and the control limits were 0 to 20. RMD 01-18-23	
3	The method blank associated with this sample was positive for Cr at 0.004931 mg/L. The sample was non-detect. According to SW846 6020A, the sample was commented. RMD 01-18-23	
4	The Relative Percent Difference (RPD) between the matrix spike and the matrix spike duplicate was outside of the established control limits for this analyte.	
5	The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Carbon Disulfide. The % Recovery was reported as 152 and the control limits were 57 to 131.	
6	The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 133 and the control limits were 66 to 130.	
7	The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte 1,1-Dichloroethene. The % Recovery was reported as 134 and the control limits were 63 to 128.	
8	The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte trans-1,2-Dichloroethene. The % Recovery was reported as 129 and the control limits were 71 to 122.	
9	The Method Blank for method SW846 8260C reported a value greater than the reporting level for the analyte Methyl acetate. The concentration was	
10	The QC sample type LCS for method SW846 8260C was outside the control limits for the analyte Methyl acetate. The % Recovery was reported as 157 and the control limits were 70 to 130.	
11	The QC type LLCCV for method SW846 6020A was outside the control limits for the analyte Se. The % RSD was reported as 22.6 and the control limits were 0 to 20. RMD 01-25-23	
12	The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Carbon Disulfide. The % Recovery was reported as 147 and the control limits were 57 to 131.	
13	The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Carbon Disulfide. The % Recovery was reported as 146 and the control limits were 57 to 131.	
14	The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 143 and the control limits were 66 to 130.	
15	The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Cyclohexane. The % Recovery was reported as 139 and the control limits were 66 to 130.	
16	The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte cis-1,3-Dichloropropene. The % Recovery was reported as 80.7 and the control limits were 81 to 121.	
17	The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 146 and the control limits were 50 to 130.	
18	The QC sample type MSD for method SW846 8260C was outside the control limits for the analyte Freon 113. The % Recovery was reported as 151 and the control limits were 50 to 130.	
19	The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Methyl cyclohexane. The % Recovery was reported as 133 and the control limits were 70 to 130.	
20	This compound was recovered above the 20 percent 8260C criteria in the continuing calibration verification associated with this sample.	

<u>Project</u>	2022FMA SCI Pittsburgh Phase I
<u>Workorder</u>	3282926
21	The QC type LLCCV for method SW846 6020A was outside the control limits for the analyte Se. The % RSD was reported as 23.2 and the control limits were 0 to 20. RMD

01-25-23





Client Sample ID Lab Sample ID	MW-03 3282926001			Collected Lab Receipt	01/12/2023 14:00 01/13/2023 09:02
Compound		Result Units	RDL	Metho	d <u>Flag</u>
METALS					
Barium, Dissolved		0.053 mg/L	0.0056	SW846 0	5020A #
Calcium, Dissolved		68.3 mg/L	0.11	SW846 6	5020A #
Magnesium, Dissolved		13.1 mg/L	0.11	SW846 0	6020A #
Manganese, Dissolved		3.3 mg/L	0.0056	SW846 0	5020A #
Potassium, Dissolved		3.7 mg/L	0.11	SW846 0	5020A #
Sodium, Dissolved		25.8 mg/L	0.11	SW846 0	5020A #
VOLATILE ORGAI	NICS				
cis-1,2-Dichloroethene		26.3 ug/L	1.0	SW846 8	3260C #
Tetrachloroethene		207 ug/L	5.0	SW8468	3260C #
Toluene		2.4 ug/L	1.0	SW846 8	3260C #
Trichloroethene		10.9 ug/L	1.0	SW846 8	3260C #



Client Sample ID Lab Sample ID	MW-02 3282926002				01/12/2023 12:25 01/13/2023 09:02
<u>Compound</u>		Result Units	<u>RDL</u>	Method	<u>Flag</u>
METALS					
Barium, Dissolved		0.11 mg/L	0.0056	SW846 6020	۹ #
Calcium, Dissolved		161 mg/L	0.11	SW846 6020	۹ #
Magnesium, Dissolved		31.3 mg/L	0.11	SW846 6020	۹ #
Manganese, Dissolved		0.45 mg/L	0.0056	SW846 6020	۹ #
Potassium, Dissolved		14.3 mg/L	0.11	SW846 6020	۹
Sodium, Dissolved		385 mg/L	11.0	SW846 6020	۹ <i>#</i>
VOLATILE ORGA	NICS				
Tetrachloroethene		1.7 ug/L	1.0	SW846 8260	c #
Trichloroethene		1.0 ug/L	1.0	SW846 8260	c #



Client Sample ID Lab Sample ID	MW-04 3282926003				01/12/2023 15:40 01/13/2023 09:02
Compound		<u>Result</u> <u>Units</u>	RDL	Method	<u>Flag</u>
METALS					
Barium, Dissolved		0.054 mg/L	0.0056	SW846 6020	A #
Calcium, Dissolved		41.9 mg/L	0.11	SW846 6020	A #
Magnesium, Dissolved		5.6 mg/L	0.11	SW846 6020	A #
Potassium, Dissolved		8.8 mg/L	0.11	SW846 6020	A #
Sodium, Dissolved		19.0 mg/L	0.11	SW846 6020	A #
VOLATILE ORGAN	NICS				
Tetrachloroethene		63.7 ug/L	1.0	SW846 8260	c #



Client Sample ID Lab Sample ID	TB-01 3282926004			Collected Lab Receipt	01/12/2023 00:00 01/13/2023 09:02
Compound		<u>Result</u> <u>Units</u>	<u>RDL</u>	Meth	od Flag
VOLATILE ORGA	NICS				
Chloroform		1.3 ug/L	1.0	SW84	6 8260C #



Client Sample ID Lab Sample ID	MW-05 3283083001				3/2023 12:35 4/2023 08:42
Compound		<u>Result</u> <u>Units</u>	RDL	Method	<u>Flag</u>
METALS					
Barium, Dissolved		0.047 mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved		117 mg/L	0.11	SW846 6020A	#
Magnesium, Dissolved		12.6 mg/L	0.11	SW846 6020A	#
Manganese, Dissolved		0.036 mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved		4.8 mg/L	0.11	SW846 6020A	#
Sodium, Dissolved		22.6 mg/L	0.11	SW846 6020A	#
VOLATILE ORGA	NICS				
Tetrachloroethene		26.3 ug/L	1.0	SW846 8260C	#



Client Sample ID Lab Sample ID	MW-05D 3283083002				01/13/2023 12:40 01/14/2023 08:42
<u>Compound</u>		Result Units	RDL	<u>Method</u>	<u>Flag</u>
METALS					
Barium, Dissolved		0.047 mg/L	0.0056	SW846 6020	A #
Calcium, Dissolved		116 mg/L	0.11	SW846 6020	A #
Magnesium, Dissolved		12.6 mg/L	0.11	SW846 6020	A #
Manganese, Dissolved		0.035 mg/L	0.0056	SW846 6020	A #
Potassium, Dissolved		4.8 mg/L	0.11	SW846 6020	A #
Sodium, Dissolved		22.2 mg/L	0.11	SW846 6020	A #
VOLATILE ORGA	NICS				
Tetrachloroethene		27.2 ug/L	1.0	SW846 8260	c #



Client Sample ID Lab Sample ID	MW-06 3283083003				2023 13:55 2023 08:42
Compound		<u>Result</u> <u>Units</u>	<u>RDL</u>	Method	<u>Flag</u>
METALS					
Barium, Dissolved		0.063 mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved		51.2 mg/L	0.11	SW846 6020A	#
Magnesium, Dissolved		2.8 mg/L	0.11	SW846 6020A	#
Manganese, Dissolved		0.0067 mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved		3.0 mg/L	0.11	SW846 6020A	#
Sodium, Dissolved		9.7 mg/L	0.11	SW846 6020A	#
VOLATILE ORGA	NICS				
Tetrachloroethene		21.0 ug/L	1.0	SW846 8260C	#



Client Sample ID Lab Sample ID	MW-12 3283083004				/13/2023 15:35 /14/2023 08:42
Compound		<u>Result</u> <u>Units</u>	<u>RDL</u>	Method	<u>Flag</u>
METALS					
Arsenic, Dissolved		0.0085 mg/L	0.0030	SW846 6020A	#
Barium, Dissolved		0.14 mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved		96.5 mg/L	0.11	SW846 6020A	#
Iron, Dissolved		6.2 mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved		7.1 mg/L	0.11	SW846 6020A	#
Manganese, Dissolved		2.8 mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved		9.6 mg/L	0.11	SW846 6020A	#
Sodium, Dissolved		137 mg/L	0.11	SW846 6020A	#
Zinc, Dissolved		0.0056 mg/L	0.0056	SW846 6020A	#



Client Sample ID Lab Sample ID	TB-02 3283083005			Collected Lab Receipt	01/13/2023 00:00 01/14/2023 08:42
Compound		<u>Result</u> <u>Units</u>	RDL	Meth	od <u>Flag</u>
VOLATILE ORGANICS					
Chloroform		1.3 ug/L	1.0	SW846	5 8260C #



Client Sample ID Lab Sample ID	MW-07 3283219001				/16/2023 10:55 /17/2023 08:35
Compound		<u>Result</u> <u>Units</u>	RDL	Method	<u>Flag</u>
METALS					
Barium, Dissolved		0.048 mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved		75.5 mg/L	0.11	SW846 6020A	#
Magnesium, Dissolved		7.9 mg/L	0.11	SW846 6020A	#
Manganese, Dissolved		0.14 mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved		5.1 mg/L	0.11	SW846 6020A	#
Sodium, Dissolved		26.0 mg/L	0.11	SW846 6020A	#
VOLATILE ORGA	NICS				
Methyl acetate		8.9 ug/L	2.0	SW846 8260C	#
Tetrachloroethene		4.7 ug/L	1.0	SW846 8260C	#
Toluene		1.7 ug/L	1.0	SW846 8260C	#



Client Sample ID Lab Sample ID	MW-11 3283219002			Collected Lab Receipt	01/16/2023 12:15 01/17/2023 08:35
Compound		<u>Result</u> <u>Units</u>	RDL	Method	<u>I</u> <u>Flag</u>
METALS					
Arsenic, Dissolved		0.013 mg/L	0.0030	SW846 6	020A #
Barium, Dissolved		0.37 mg/L	0.0056	SW846 6	020A #
Calcium, Dissolved		179 mg/L	0.11	SW846 6	020A #
Iron, Dissolved		13.2 mg/L	0.056	SW846 6	020A #
Magnesium, Dissolved		23.5 mg/L	0.11	SW846 6	020A #
Manganese, Dissolved		8.2 mg/L	0.0056	SW846 6	020A #
Potassium, Dissolved		8.5 mg/L	0.11	SW846 6	020A #
Sodium, Dissolved		71.4 mg/L	0.11	SW846 6	020A #
Zinc, Dissolved		0.0084 mg/L	0.0056	SW846 6	020A #
VOLATILE ORGA	NICS				
Methyl acetate		6.1 ug/L	2.0	SW846 8	260C #



Client Sample ID Lab Sample ID	MW-10 3283219003				Collected Lab Receipt		/16/2023 13:25 /17/2023 08:35
Compound		<u>Result</u>	<u>Units</u>	<u>RDL</u>		Method	<u>Flag</u>
METALS							
Arsenic, Dissolved		0.039	mg/L	0.0030		SW846 6020A	#
Barium, Dissolved		0.20	mg/L	0.0056		SW846 6020A	#
Calcium, Dissolved		115	mg/L	0.11		SW846 6020A	#
Iron, Dissolved		72.5	mg/L	0.056		SW846 6020A	#
Magnesium, Dissolved		18.5	mg/L	0.11		SW846 6020A	#
Manganese, Dissolved		18.7	mg/L	0.56		SW846 6020A	#
Potassium, Dissolved		2.4	mg/L	0.11		SW846 6020A	#
Sodium, Dissolved		62.9	mg/L	0.11		SW846 6020A	#
Zinc, Dissolved		0.0061	mg/L	0.0056		SW846 6020A	#
VOLATILE ORGAN	ICS						
Methyl acetate		7.7	ug/L	2.0		SW846 8260C	#
WET CHEMISTRY							
Hexavalent Chromium		0.011	mg/L	0.010		SW846 7196A	#



Client Sample ID Lab Sample ID	MW-09 3283219004				)23 14:45 )23 08:35
Compound		<u>Result</u> <u>Units</u>	RDL	Method	<u>Flag</u>
METALS					
Barium, Dissolved		0.077 mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved		96.8 mg/L	0.11	SW846 6020A	#
Magnesium, Dissolved		7.5 mg/L	0.11	SW846 6020A	#
Manganese, Dissolved		0.067 mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved		7.0 mg/L	0.11	SW846 6020A	#
Sodium, Dissolved		104 mg/L	0.11	SW846 6020A	#
Zinc, Dissolved		0.016 mg/L	0.0056	SW846 6020A	#
VOLATILE ORGA	NICS				
Methyl acetate		5.9 ug/L	2.0	SW846 8260C	#



Client Sample ID Lab Sample ID	MW-01 3283219005				1/16/2023 15:45 1/17/2023 08:35
Compound		<u>Result</u> <u>Units</u>	RDL	Method	<u>Flag</u>
METALS					
Barium, Dissolved		0.061 mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved		160 mg/L	0.11	SW846 6020A	. #
Iron, Dissolved		0.078 mg/L	0.056	SW846 6020A	. #
Magnesium, Dissolved		41.7 mg/L	0.11	SW846 6020A	. #
Manganese, Dissolved		0.18 mg/L	0.0056	SW846 6020A	. #
Potassium, Dissolved		16.0 mg/L	0.11	SW846 6020A	. #
Sodium, Dissolved		440 mg/L	110	SW846 6020A	#
VOLATILE ORGA	NICS				
Methyl acetate		6.9 ug/L	2.0	SW846 8260C	#
Tetrachloroethene		3.7 ug/L	1.0	SW846 8260C	#
Trichloroethene		1.3 ug/L	1.0	SW846 8260C	#



Client Sample ID Lab Sample ID	TB-03 3283219006			Collected Lab Receipt	01/16/2023 15:45 01/17/2023 08:35
Compound		<u>Result</u> <u>Units</u>	<u>RDL</u>	Meth	od <u>Flag</u>
VOLATILE ORGAN	NICS				
Chloroform		1.7 ug/L	1.0	SW846	8260C #
Methyl acetate		7.4 ug/L	2.0	SW846	8260C #



Client Sample ID Lab Sample ID	MW-08 3283430001				023 16:15 023 08:42
Compound		<u>Result</u> <u>Units</u>	RDL	Method	<u>Flag</u>
METALS					
Aluminum, Dissolved		0.12 mg/L	0.089	SW846 6020A	#
Arsenic, Dissolved		0.0084 mg/L	0.0030	SW846 6020A	#
Barium, Dissolved		0.13 mg/L	0.0056	SW846 6020A	#
Calcium, Dissolved		61.1 mg/L	0.11	SW846 6020A	#
ron, Dissolved		0.44 mg/L	0.056	SW846 6020A	#
Magnesium, Dissolved		11.3 mg/L	0.11	SW846 6020A	#
Manganese, Dissolved		3.0 mg/L	0.0056	SW846 6020A	#
Potassium, Dissolved		5.7 mg/L	0.11	SW846 6020A	#
Sodium, Dissolved		61.4 mg/L	0.11	SW846 6020A	#
Zinc, Dissolved		0.0072 mg/L	0.0056	SW846 6020A	#



Client Sample ID Lab Sample ID	TB-04 3283430002			Collected Lab Receipt	01/17/2023 00:00 01/18/2023 08:42
Compound		<u>Result</u> <u>Units</u>	<u>RDL</u>	Metho	od <u>Flag</u>
VOLATILE ORGA	NICS				
Chloroform		1.6 ug/L	1.0	SW846	8260C #



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        Client Sample ID
        MW-03
        Collected
        01/12/2023 14:00

        Lab Sample ID
        3282926001
        Lab Receipt
        01/13/2023 09:02
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### METALS

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Dissolved	ND	ND,P1	mg/L	0.089	SW846 6020A	1	01/18/2023 12:50	MO	D1
Antimony, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:50	MO	D1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0030	SW846 6020A	1	01/18/2023 12:50	MO	D1
Barium, Dissolved	0.053	P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:50	MO	D1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/18/2023 12:50	MO	D1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0011	SW846 6020A	1	01/18/2023 12:50	MO	D1
Calcium, Dissolved	68.3	2,P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:50	MO	D1
Chromium, Dissolved	ND	ND,3,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:50	MO	D1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:50	MO	D1
Copper, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:50	MO	D1
Iron, Dissolved	ND	ND,P1	mg/L	0.056	SW846 6020A	1	01/18/2023 12:50	MO	D1
Lead, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:50	MO	D1
Magnesium, Dissolved	13.1	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:50	MO	D1
Manganese, Dissolved	3.3	P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:50	MO	D1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	SW846 7470A	1	01/19/2023 12:57	WDA	D
Nickel, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:50	MO	D1
Potassium, Dissolved	3.7	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:50	MO	D1
Selenium, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:50	MO	D1
Silver, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:50	MO	D1
Sodium, Dissolved	25.8	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:50	MO	D1
Thallium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/18/2023 12:50	MO	D1
Trivalent Chromium	ND	ND,P1	mg/L	0.010	Calculation	1	01/18/2023 19:05	CW	F
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:50	MO	D1
Zinc, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:50	MO	D1

# **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А

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Client Sample ID Lab Sample ID MW-03 3282926001 Collected Lab Receipt

01/12/2023 14:00 01/13/2023 09:02

# VOLATILE ORGANICS (cont.)

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Carbon Disulfide	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Chloroform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
cis-1,2-Dichloroethene	26.3	P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Isopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Methyl acetate	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Tetrachloroethene	207	P1	ug/L	5.0	SW846 8260C	5	01/20/2023 02:46	PDK	А
Toluene	2.4	P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Trichloroethene	10.9	P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:41	PDK	A

#### SURROGATES

<u>Compound</u>	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	87.7%	62 - 133	01/18/2023 04:41	
1,2-Dichloroethane-d4	17060-07-0	88.3%	62 - 133	01/20/2023 02:46	
4-Bromofluorobenzene	460-00-4	110 %	79 - 114	01/18/2023 04:41	
4-Bromofluorobenzene	460-00-4	109 %	79 - 114	01/20/2023 02:46	
Dibromofluoromethane	1868-53-7	90%	78 - 116	01/18/2023 04:41	
Dibromofluoromethane	1868-53-7	89.2%	78 - 116	01/20/2023 02:46	
Toluene-d8	2037-26-5	97.3%	76 - 127	01/18/2023 04:41	
Toluene-d8	2037-26-5	97.1%	76 - 127	01/20/2023 02:46	

#### WET CHEMISTRY

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Client Sample ID	MW-03					Collected	01/12/	2023 1	4:00
Lab Sample ID	3282926001					Lab Rece	ipt 01/13/	2023 0	9:02
<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/L	0.010	SW846 7196A	1	01/13/2023 10:15	GMM	F



```
        Client Sample ID
        MW-02
        Collected
        01/12/2023 12:25

        Lab Sample ID
        3282926002
        Lab Receipt
        01/13/2023 09:02
```

### METALS

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Dissolved	ND	ND,P1	mg/L	0.089	SW846 6020A	1	01/18/2023 12:52	МО	D1
Antimony, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:52	MO	D1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0030	SW846 6020A	1	01/18/2023 12:52	МО	D1
Barium, Dissolved	0.11	P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:52	MO	D1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/18/2023 12:52	MO	D1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0011	SW846 6020A	1	01/18/2023 12:52	MO	D1
Calcium, Dissolved	161	2,P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:52	MO	D1
Chromium, Dissolved	ND	ND,3,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:52	MO	D1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:52	MO	D1
Copper, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:52	MO	D1
Iron, Dissolved	ND	ND,P1	mg/L	0.056	SW846 6020A	1	01/18/2023 12:52	MO	D1
Lead, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:52	MO	D1
Magnesium, Dissolved	31.3	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:52	MO	D1
Manganese, Dissolved	0.45	P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:52	MO	D1
Mercury, Dissolved	ND	ND,4,P1	mg/L	0.00050	SW846 7470A	1	01/19/2023 12:58	WDA	D
Nickel, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:52	MO	D1
Potassium, Dissolved	14.3	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:52	MO	D1
Selenium, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:52	MO	D1
Silver, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:52	MO	D1
Sodium, Dissolved	385	P1	mg/L	11.0	SW846 6020A	100	01/18/2023 14:28	RMD	D1
Thallium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/18/2023 12:52	MO	D1
Trivalent Chromium	ND	ND,P1	mg/L	0.010	Calculation	1	01/19/2023 08:47	CW	F
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:52	MO	D1
Zinc, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:52	MO	D1

# **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А

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01/12/2023 12:25

01/13/2023 09:02

Results

Client Sample IDMW-02CollectedLab Sample ID3282926002Lab Receipt

## **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Carbon Disulfide	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Chloroform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Isopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Methyl acetate	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Tetrachloroethene	1.7	P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Trichloroethene	1.0	P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:04	PDK	А

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	87.8%	62 - 133	01/18/2023 05:04	
4-Bromofluorobenzene	460-00-4	111 %	79 - 114	01/18/2023 05:04	
Dibromofluoromethane	1868-53-7	88.1%	78 - 116	01/18/2023 05:04	
Toluene-d8	2037-26-5	98.1%	76 - 127	01/18/2023 05:04	

### WET CHEMISTRY

Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/L	0.010	SW846 7196A	1	01/13/2023 10:15	GMM	F



				Resi	ults				
Client Sample ID Lab Sample ID	MW-02 3282926002						Collected Lab Receipt	•=.	2023 12:2 2023 09:0
VET CHEMISTRY	′ (cont.)								
Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL		Method	Dilution A	Analysis Date/Time	<u>By C</u>



```
        Client Sample ID
        MW-04
        Collected
        01/12/2023 15:40

        Lab Sample ID
        3282926003
        Lab Receipt
        01/13/2023 09:02
```

## METALS

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Dissolved	ND	ND,P1	mg/L	0.089	SW846 6020A	1	01/18/2023 12:54	МО	D1
Antimony, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:54	MO	D1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0030	SW846 6020A	1	01/18/2023 12:54	MO	D1
Barium, Dissolved	0.054	P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:54	MO	D1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/18/2023 12:54	MO	D1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0011	SW846 6020A	1	01/18/2023 12:54	MO	D1
Calcium, Dissolved	41.9	2,P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:54	MO	D1
Chromium, Dissolved	ND	ND,3,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:54	MO	D1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:54	MO	D1
Copper, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:54	MO	D1
Iron, Dissolved	ND	ND,P1	mg/L	0.056	SW846 6020A	1	01/18/2023 12:54	MO	D1
Lead, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:54	MO	D1
Magnesium, Dissolved	5.6	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:54	MO	D1
Manganese, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:54	MO	D1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	SW846 7470A	1	01/19/2023 13:01	WDA	D
Nickel, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:54	MO	D1
Potassium, Dissolved	8.8	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:54	MO	D1
Selenium, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:54	MO	D1
Silver, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:54	MO	D1
Sodium, Dissolved	19.0	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:54	MO	D1
Thallium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/18/2023 12:54	MO	D1
Trivalent Chromium	ND	ND,P1	mg/L	0.010	Calculation	1	01/19/2023 08:48	CW	F
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:54	MO	D1
Zinc, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:54	MO	D1

# **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	Α
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 05:27	PDK	Α
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 05:27	PDK	Α
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А



**Client Sample ID** Lab Sample ID

MW-04 3282926003

Lab Receipt

Collected

01/12/2023 15:40 01/13/2023 09:02

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Carbon Disulfide	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Chloroform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Isopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Methyl acetate	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Tetrachloroethene	63.7	P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Trichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:27	PDK	A

#### SURROGATES

<u>Compound</u>	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	86.9%	62 - 133	01/18/2023 05:27	
4-Bromofluorobenzene	460-00-4	110 %	79 - 114	01/18/2023 05:27	
Dibromofluoromethane	1868-53-7	87.6%	78 - 116	01/18/2023 05:27	
Toluene-d8	2037-26-5	97 %	76 - 127	01/18/2023 05:27	

### WET CHEMISTRY

Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/L	0.010	SW846 7196A	1	01/13/2023 10:15	GMM	F



				Res	ults						
Client Sample ID Lab Sample ID	MW-04 3282926003						Collected Lab Recei		)1/12/2 )1/13/2		
WET CHEMISTRY	′ (cont.)										
Compound	<u>Result</u>	Flag	<u>Units</u>	RDL		Method	Dilution	Analysis Date/	<u>Time</u>	<u>By</u>	<u>Cntr</u>



Client Sample ID Lab Sample ID TB-01 3282926004 \_\_\_\_

Collected

Lab Receipt

01/12/2023 00:00 01/13/2023 09:02

# **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Carbon Disulfide	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Chloroform	1.3	P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Isopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Methyl acetate	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Tetrachloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/18/2023 03:56	PDK	А

2037-26-5

Toluene-d8



				Results					
Client Sample ID Lab Sample ID	TB-01 3282926004					Collected Lab Recei		2/2023 0 3/2023 0	
VOLATILE ORGAN	ICS (cont.)								
Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	By	<u>Cntr</u>
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Trichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 03:56	PDK	А
SURROGATES									
Compound	CAS No			Recovery	Limits(%)	<u>Analysis</u>	Date/Time	<u>Qualifie</u>	rs
1,2-Dichloroethane-d4	17060-07-0			88.3%	62 - 133	01/18/2023	03:56		
4-Bromofluorobenzene	460-00-4			109%	79 - 114	01/18/2023	03:56		
Dibromofluoromethane	1868-53-7			88.6%	78 - 116	01/18/2023	03:56		

76 - 127

01/18/2023 03:56

97.5%



```
        Client Sample ID
        MW-05
        Collected
        01/13/2023 12:35

        Lab Sample ID
        3283083001
        Lab Receipt
        01/14/2023 08:42
```

## METALS

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Dissolved	ND	ND,P1	mg/L	0.089	SW846 6020A	1	01/18/2023 12:56	MO	D1
Antimony, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:56	MO	D1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0030	SW846 6020A	1	01/18/2023 12:56	MO	D1
Barium, Dissolved	0.047	P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:56	MO	D1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/18/2023 12:56	MO	D1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0011	SW846 6020A	1	01/18/2023 12:56	MO	D1
Calcium, Dissolved	117	2,P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:56	MO	D1
Chromium, Dissolved	ND	ND,3,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:56	MO	D1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:56	MO	D1
Copper, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:56	MO	D1
Iron, Dissolved	ND	ND,P1	mg/L	0.056	SW846 6020A	1	01/18/2023 12:56	MO	D1
Lead, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:56	MO	D1
Magnesium, Dissolved	12.6	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:56	MO	D1
Manganese, Dissolved	0.036	P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:56	MO	D1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	SW846 7470A	1	01/19/2023 13:10	WDA	D
Nickel, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:56	MO	D1
Potassium, Dissolved	4.8	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:56	MO	D1
Selenium, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:56	MO	D1
Silver, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:56	MO	D1
Sodium, Dissolved	22.6	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:56	MO	D1
Thallium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/18/2023 12:56	MO	D1
Trivalent Chromium	ND	ND,P1	mg/L	0.010	Calculation	1	01/20/2023 08:31	CW	F
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:56	MO	D1
Zinc, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:56	MO	D1

# **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А



Client Sample ID Lab Sample ID MW-05 3283083001 Collected

Lab Receipt

01/13

01/13/2023 12:35 01/14/2023 08:42

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Carbon Disulfide	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Chloroform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
lsopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Methyl acetate	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Tetrachloroethene	26.3	P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Trichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 05:49	PDK	А

#### SURROGATES

Compound	CAS No	<u>Recovery</u>	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	87.2%	62 - 133	01/18/2023 05:49	
4-Bromofluorobenzene	460-00-4	108 %	79 - 114	01/18/2023 05:49	
Dibromofluoromethane	1868-53-7	86.5%	78 - 116	01/18/2023 05:49	
Toluene-d8	2037-26-5	97.4%	76 - 127	01/18/2023 05:49	

### WET CHEMISTRY

Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/L	0.010	SW846 7196A	1	01/14/2023 09:55	GMM	F



				Res	ults					
Client Sample ID Lab Sample ID	MW-05 3283083001						Collected Lab Recei		13/2023 14/2023	
WET CHEMISTRY	′ (cont.)									
Compound	<u>Result</u>	Flag	<u>Units</u>	RDL		Method	Dilution	Analysis Date/Tin	<u>ie By</u>	Cntr



```
        Client Sample ID
        MW-05D
        Collected
        01/13/2023 12:40

        Lab Sample ID
        3283083002
        Lab Receipt
        01/14/2023 08:42
```

## METALS

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Dissolved	ND	ND,P1	mg/L	0.089	SW846 6020A	1	01/18/2023 12:58	MO	D1
Antimony, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:58	MO	D1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0030	SW846 6020A	1	01/18/2023 12:58	MO	D1
Barium, Dissolved	0.047	P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:58	MO	D1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/18/2023 12:58	MO	D1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0011	SW846 6020A	1	01/18/2023 12:58	MO	D1
Calcium, Dissolved	116	2,P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:58	MO	D1
Chromium, Dissolved	ND	ND,3,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:58	MO	D1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:58	MO	D1
Copper, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:58	MO	D1
Iron, Dissolved	ND	ND,P1	mg/L	0.056	SW846 6020A	1	01/18/2023 12:58	MO	D1
Lead, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:58	MO	D1
Magnesium, Dissolved	12.6	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:58	MO	D1
Manganese, Dissolved	0.035	P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:58	MO	D1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	SW846 7470A	1	01/19/2023 13:11	WDA	D
Nickel, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:58	MO	D1
Potassium, Dissolved	4.8	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:58	MO	D1
Selenium, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:58	MO	D1
Silver, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:58	MO	D1
Sodium, Dissolved	22.2	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 12:58	MO	D1
Thallium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/18/2023 12:58	MO	D1
Trivalent Chromium	ND	ND,P1	mg/L	0.010	Calculation	1	01/20/2023 08:32	CW	F
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 12:58	MO	D1
Zinc, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 12:58	MO	D1

# **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А



Client Sample ID MW-05D Lab Sample ID 3283083002 \_\_\_\_

01/13/2023 12:40 01/14/2023 08:42

Collected

Lab Receipt

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Carbon Disulfide	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Chloroform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Isopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Methyl acetate	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Tetrachloroethene	27.2	P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Trichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:12	PDK	А

#### SURROGATES

<u>Compound</u>	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	88.1%	62 - 133	01/18/2023 06:12	
4-Bromofluorobenzene	460-00-4	112 %	79 - 114	01/18/2023 06:12	
Dibromofluoromethane	1868-53-7	88.7%	78 - 116	01/18/2023 06:12	
Toluene-d8	2037-26-5	98.4%	76 - 127	01/18/2023 06:12	

### WET CHEMISTRY

Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/L	0.010	SW846 7196A	1	01/14/2023 09:55	GMM	F

Flag

<u>Units</u>

Compound



<u>Cntr</u>

<u>By</u>

	F	Results	
Client Sample ID	MW-05D	Collected	01/13/2023 12:40
Lab Sample ID	3283083002	Lab Receipt	01/14/2023 08:42

Method

**Dilution** 

Analysis Date/Time

<u>RDL</u>



```
        Client Sample ID
        MW-06
        Collected
        01/13/2023 13:55

        Lab Sample ID
        3283083003
        Lab Receipt
        01/14/2023 08:42
```

## METALS

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	By	Cntr
Aluminum, Dissolved	ND	ND,P1	mg/L	0.089	SW846 6020A	1	01/18/2023 13:00	MO	D1
Antimony, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 13:00	MO	D1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0030	SW846 6020A	1	01/18/2023 13:00	MO	D1
Barium, Dissolved	0.063	P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 13:00	MO	D1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/18/2023 13:00	MO	D1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0011	SW846 6020A	1	01/18/2023 13:00	MO	D1
Calcium, Dissolved	51.2	2,P1	mg/L	0.11	SW846 6020A	1	01/18/2023 13:00	MO	D1
Chromium, Dissolved	ND	ND,3,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 13:00	MO	D1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 13:00	MO	D1
Copper, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 13:00	MO	D1
Iron, Dissolved	ND	ND,P1	mg/L	0.056	SW846 6020A	1	01/18/2023 13:00	MO	D1
Lead, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 13:00	MO	D1
Magnesium, Dissolved	2.8	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 13:00	MO	D1
Manganese, Dissolved	0.0067	P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 13:00	MO	D1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	SW846 7470A	1	01/19/2023 13:12	WDA	D
Nickel, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 13:00	MO	D1
Potassium, Dissolved	3.0	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 13:00	MO	D1
Selenium, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 13:00	MO	D1
Silver, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 13:00	MO	D1
Sodium, Dissolved	9.7	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 13:00	MO	D1
Thallium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/18/2023 13:00	MO	D1
Trivalent Chromium	ND	ND,P1	mg/L	0.010	Calculation	1	01/20/2023 08:33	CW	F
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 13:00	MO	D1
Zinc, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 13:00	MO	D1

# **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А



**Client Sample ID** Lab Sample ID

MW-06 3283083003

Collected Lab Receipt

01/13/2023 13:55 01/14/2023 08:42

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Carbon Disulfide	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Chloroform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Isopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Methyl acetate	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Tetrachloroethene	21.0	P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Trichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 06:34	PDK	А

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	88.5%	62 - 133	01/18/2023 06:34	
4-Bromofluorobenzene	460-00-4	111 %	79 - 114	01/18/2023 06:34	
Dibromofluoromethane	1868-53-7	88.9%	78 - 116	01/18/2023 06:34	
Toluene-d8	2037-26-5	97 %	76 - 127	01/18/2023 06:34	

### WET CHEMISTRY

Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/L	0.010	SW846 7196A	1	01/14/2023 09:55	GMM	F



				Resu	ılts						
Client Sample ID Lab Sample ID	MW-06 3283083003						Collected Lab Recei		01/13/2 01/14/2		
WET CHEMISTRY	′ (cont.)										
Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>		Method	Dilution	Analysis Date	e/Time	By	Cr



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        Client Sample ID
        MW-12
        Collected
        01/13/2023 15:35

        Lab Sample ID
        3283083004
        Lab Receipt
        01/14/2023 08:42
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## METALS

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Dissolved	ND	ND,P1	mg/L	0.089	SW846 6020A	1	01/18/2023 13:02	MO	D1
Antimony, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 13:02	MO	D1
Arsenic, Dissolved	0.0085	P1	mg/L	0.0030	SW846 6020A	1	01/18/2023 13:02	MO	D1
Barium, Dissolved	0.14	P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 13:02	MO	D1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/18/2023 13:02	MO	D1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0011	SW846 6020A	1	01/18/2023 13:02	MO	D1
Calcium, Dissolved	96.5	2,P1	mg/L	0.11	SW846 6020A	1	01/18/2023 13:02	MO	D1
Chromium, Dissolved	ND	ND,3,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 13:02	MO	D1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 13:02	MO	D1
Copper, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 13:02	MO	D1
Iron, Dissolved	6.2	P1	mg/L	0.056	SW846 6020A	1	01/18/2023 13:02	MO	D1
Lead, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 13:02	MO	D1
Magnesium, Dissolved	7.1	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 13:02	MO	D1
Manganese, Dissolved	2.8	P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 13:02	MO	D1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	SW846 7470A	1	01/19/2023 13:13	WDA	D
Nickel, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 13:02	MO	D1
Potassium, Dissolved	9.6	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 13:02	MO	D1
Selenium, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 13:02	MO	D1
Silver, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 13:02	MO	D1
Sodium, Dissolved	137	P1	mg/L	0.11	SW846 6020A	1	01/18/2023 13:02	MO	D1
Thallium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/18/2023 13:02	MO	D1
Trivalent Chromium	ND	ND,P1	mg/L	0.010	Calculation	1	01/20/2023 08:34	CW	F
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/18/2023 13:02	MO	D1
Zinc, Dissolved	0.0056	P1	mg/L	0.0056	SW846 6020A	1	01/18/2023 13:02	MO	D1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А



 Client Sample ID
 MW-12
 Collected
 01/13/2023 15:35

 Lab Sample ID
 3283083004
 Lab Receipt
 01/14/2023 08:42

# VOLATILE ORGANICS (cont.)

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	A
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Carbon Disulfide	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Chloroform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Isopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Methyl acetate	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Tetrachloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Trichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 07:06	PDK	А

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	87.4%	62 - 133	01/18/2023 07:06	
4-Bromofluorobenzene	460-00-4	114 %	79 - 114	01/18/2023 07:06	
Dibromofluoromethane	1868-53-7	90.2%	78 - 116	01/18/2023 07:06	
Toluene-d8	2037-26-5	98.3 %	76 - 127	01/18/2023 07:06	

### WET CHEMISTRY

Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	By	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/L	0.010	SW846 7196A	1	01/14/2023 09:55	GMM	F



				Resu	lts					
Client Sample ID Lab Sample ID	MW-12 3283083004						Collected Lab Receipt	01/13/2 01/14/2	2023 1 2023 0	
WET CHEMISTRY	′ (cont.)									
<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL		Method	Dilution Analy	<u>ysis Date/Time</u>	<u>By</u>	Cnt



Client Sample ID Lab Sample ID TB-02 3283083005

Collected Lab Receipt 01/13/2023 00:00 01/14/2023 08:42

# **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Carbon Disulfide	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Chloroform	1.3	P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Isopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Methyl acetate	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Tetrachloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/18/2023 04:18	PDK	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/18/2023 04:18	PDK	А



Results													
Client Sample ID Lab Sample ID	TB-02 3283083005					-	ollected ab Recei		3/2023 0 4/2023 0				
VOLATILE ORGAN	IICS (cont.)												
Compound	Result	<u>Flag</u>	<u>Units</u>	RDL	Method	<u> </u>	<u>Dilution</u>	Analysis Date/Time	<u>e By</u>	<u>Cntr</u>			
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 82	.60C	1	01/18/2023 04:18	PDK	А			
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 82	60C ·	1	01/18/2023 04:18	PDK	А			
Trichloroethene	ND	ND,P1	ug/L	1.0	SW846 82	60C -	1	01/18/2023 04:18	PDK	А			
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 82	.60C	1	01/18/2023 04:18	PDK	А			
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 82	260C	I	01/18/2023 04:18	PDK	А			
SURROGATES													
Compound	CAS No			Recovery	Limits(%)		Analysis	Date/Time	<u>Qualifier</u>	<u>rs</u>			
1,2-Dichloroethane-d4	17060-07-0			87.4%	62 - 133		01/18/2023	04:18					
4-Bromofluorobenzene	460-00-4			111 %	79 - 114		01/18/2023	04:18					
Dibromofluoromethane	1868-53-7			88.9%	78 - 116		01/18/2023	04:18					
Toluene-d8	2037-26-5			97.9%	76 - 127		01/18/2023	04:18					



```
        Client Sample ID
        MW-07
        Collected
        01/16/2023 10:55

        Lab Sample ID
        3283219001
        Lab Receipt
        01/17/2023 08:35
```

## METALS

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Dissolved	ND	ND,P1	mg/L	0.089	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Antimony, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0030	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Barium, Dissolved	0.048	P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0011	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Calcium, Dissolved	75.5	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Copper, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Iron, Dissolved	ND	ND,P1	mg/L	0.056	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Lead, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Magnesium, Dissolved	7.9	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Manganese, Dissolved	0.14	P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	SW846 7470A	1	01/19/2023 13:14	WDA	D
Nickel, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Potassium, Dissolved	5.1	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Selenium, Dissolved	ND	ND,11,P 1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Silver, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Sodium, Dissolved	26.0	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Thallium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Trivalent Chromium	ND	ND,P1	mg/L	0.010	Calculation	1	01/27/2023 10:11	CW	F
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:06	RMD	D1
Zinc, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:06	RMD	D1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
1,1-Dichloroethene	ND	ND,7,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 17:18	TMP	Α
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	Α
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	Α
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/23/2023 17:18	TMP	Α
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/23/2023 17:18	TMP	А



Client Sample ID Lab Sample ID MW-07 3283219001 \_\_\_\_

Collected ( Lab Receipt (

01/16/2023 10:55 01/17/2023 08:35

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	Α
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Carbon Disulfide	ND	ND,5,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Chloroform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Cyclohexane	ND	ND,6,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Isopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Methyl acetate	8.9	9,10,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Tetrachloroethene	4.7	P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Toluene	1.7	P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
trans-1,2-Dichloroethene	ND	ND,8,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Trichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:18	TMP	А

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	101%	62 - 133	01/23/2023 17:18	
4-Bromofluorobenzene	460-00-4	105%	79 - 114	01/23/2023 17:18	
Dibromofluoromethane	1868-53-7	98.3%	78 - 116	01/23/2023 17:18	
Toluene-d8	2037-26-5	99.3%	76 - 127	01/23/2023 17:18	

### WET CHEMISTRY

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/L	0.010	SW846 7196A	1	01/17/2023 10:00	GMM	F



				Res	ults					
Client Sample ID Lab Sample ID	MW-07 3283219001						Collected Lab Rece		/16/2023 /17/2023	
WET CHEMISTRY	′ (cont.)									
Compound	<u>Result</u>	Flag	<u>Units</u>	RDL		Method	Dilution	Analysis Date/Ti	<u>ne By</u>	Cntr



```
        Client Sample ID
        MW-11
        Collected
        01/16/2023 12:15

        Lab Sample ID
        3283219002
        Lab Receipt
        01/17/2023 08:35
```

## METALS

Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Dissolved	ND	ND,P1	mg/L	0.089	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Antimony, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Arsenic, Dissolved	0.013	P1	mg/L	0.0030	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Barium, Dissolved	0.37	P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0011	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Calcium, Dissolved	179	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Copper, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Iron, Dissolved	13.2	P1	mg/L	0.056	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Lead, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Magnesium, Dissolved	23.5	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Manganese, Dissolved	8.2	P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	SW846 7470A	1	01/19/2023 13:16	WDA	D
Nickel, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Potassium, Dissolved	8.5	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Selenium, Dissolved	ND	ND,11,P 1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Silver, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Sodium, Dissolved	71.4	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Thallium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Trivalent Chromium	ND	ND,P1	mg/L	0.010	Calculation	1	01/27/2023 10:12	CW	F
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:08	RMD	D1
Zinc, Dissolved	0.0084	P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:08	RMD	D1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	Α
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
1,1-Dichloroethene	ND	ND,7,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	Α
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 17:41	TMP	Α
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	Α
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	Α
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	Α
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/23/2023 17:41	TMP	Α
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/23/2023 17:41	TMP	А



 Client Sample ID
 MW-11
 Collected
 01/16/2023 12:15

 Lab Sample ID
 3283219002
 Lab Receipt
 01/17/2023 08:35

## VOLATILE ORGANICS (cont.)

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	<u>Method</u>	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Carbon Disulfide	ND	ND,5,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Chloroform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Cyclohexane	ND	ND,6,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Isopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Methyl acetate	6.1	9,10,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Tetrachloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
trans-1,2-Dichloroethene	ND	ND,8,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Trichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 17:41	TMP	А

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	102%	62 - 133	01/23/2023 17:41	
4-Bromofluorobenzene	460-00-4	103 %	79 - 114	01/23/2023 17:41	
Dibromofluoromethane	1868-53-7	96.7%	78 - 116	01/23/2023 17:41	
Toluene-d8	2037-26-5	99.8%	76 - 127	01/23/2023 17:41	

### WET CHEMISTRY

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/L	0.010	SW846 7196A	1	01/17/2023 10:00	GMM	F



		Results		
Client Sample ID	MW-11		Collected	01/16/2023 12:15
Lab Sample ID	3283219002		Lab Receipt	01/17/2023 08:35
WET CHEMISTRY	′ (cont.)			

Compound Result Flag Units RDL Method Dilution Analysis Date/Time By
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        Client Sample ID
        MW-10
        Collected
        01/16/2023 13:25

        Lab Sample ID
        3283219003
        Lab Receipt
        01/17/2023 08:35
```

## METALS

Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Dissolved	ND	ND,P1	mg/L	0.089	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Antimony, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Arsenic, Dissolved	0.039	P1	mg/L	0.0030	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Barium, Dissolved	0.20	P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0011	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Calcium, Dissolved	115	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Copper, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Iron, Dissolved	72.5	P1	mg/L	0.056	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Lead, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Magnesium, Dissolved	18.5	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Manganese, Dissolved	18.7	P1	mg/L	0.56	SW846 6020A	100	01/25/2023 18:50	RMD	D1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	SW846 7470A	1	01/19/2023 13:19	WDA	D
Nickel, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Potassium, Dissolved	2.4	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Selenium, Dissolved	ND	ND,11,P 1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Silver, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Sodium, Dissolved	62.9	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Thallium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Trivalent Chromium	ND	ND,P1	mg/L	0.010	Calculation	1	01/25/2023 21:14	CW	F
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:11	RMD	D1
Zinc, Dissolved	0.0061	P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:11	RMD	D1

## **VOLATILE ORGANICS**

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
1,1-Dichloroethene	ND	ND,7,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/23/2023 18:04	TMP	А



**Client Sample ID** Lab Sample ID

MW-10 3283219003

Lab Receipt

Collected

01/16/2023 13:25 01/17/2023 08:35

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	A
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Carbon Disulfide	ND	ND,5,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Chloroform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Cyclohexane	ND	ND,6,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Isopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Methyl acetate	7.7	9,10,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Tetrachloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
trans-1,2-Dichloroethene	ND	ND,8,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Trichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:04	TMP	A

#### SURROGATES

Compound	CAS No	<u>Recovery</u>	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	98.6%	62 - 133	01/23/2023 18:04	
4-Bromofluorobenzene	460-00-4	103 %	79 - 114	01/23/2023 18:04	
Dibromofluoromethane	1868-53-7	95.1%	78 - 116	01/23/2023 18:04	
Toluene-d8	2037-26-5	97.9%	76 – 127	01/23/2023 18:04	

### WET CHEMISTRY

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	0.011	P1	mg/L	0.010	SW846 7196A	1	01/17/2023 10:00	GMM	F



	Res	sults	
Client Sample ID	MW-10	Collected	01/16/2023 13:25
Lab Sample ID	3283219003	Lab Receipt	01/17/2023 08:35

# WET CHEMISTRY (cont.)

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	<u>Method</u>	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>



```
        Client Sample ID
        MW-09
        Collected
        01/16/2023 14:45

        Lab Sample ID
        3283219004
        Lab Receipt
        01/17/2023 08:35
```

## METALS

Aluminum, DissolvedNDND,P1mg/L0.089SW846 6020A101/25/2023 18:13RMDD1Antimony, DissolvedNDND,P1mg/L0.0022SW846 6020A101/25/2023 18:13RMDD1Arsenic, DissolvedNDND,P1mg/L0.0030SW846 6020A101/25/2023 18:13RMDD1Barium, Dissolved0.077P1mg/L0.0056SW846 6020A101/25/2023 18:13RMDD1Beryllium, DissolvedNDND,P1mg/L0.0010SW846 6020A101/25/2023 18:13RMDD1Cadmium, DissolvedNDND,P1mg/L0.0011SW846 6020A101/25/2023 18:13RMDD1Calcium, Dissolved96.8P1mg/L0.012SW846 6020A101/25/2023 18:13RMDD1Chromium, DissolvedNDND,P1mg/L0.0022SW846 6020A101/25/2023 18:13RMDD1Choosilut, DissolvedNDND,P1mg/L0.0022SW846 6020A101/25/2023 18:13RMDD1Cobalt, DissolvedNDND,P1mg/L0.0022SW846 6020A101/25/2023 18:13RMDD1Cobalt, DissolvedNDND,P1mg/L0.0056SW846 6020A101/25/2023 18:13RMDD1Copper, DissolvedNDND,P1mg/L0.0056SW846 6020A101/25/2023 18:13RMDD1
Arsenic, DissolvedNDND,P1mg/L0.0030SW846 6020A101/25/2023 18:13RMDD1Barium, Dissolved0.077P1mg/L0.0056SW846 6020A101/25/2023 18:13RMDD1Beryllium, DissolvedNDND,P1mg/L0.0010SW846 6020A101/25/2023 18:13RMDD1Cadmium, DissolvedNDND,P1mg/L0.0011SW846 6020A101/25/2023 18:13RMDD1Calcium, DissolvedNDND,P1mg/L0.0011SW846 6020A101/25/2023 18:13RMDD1Calcium, Dissolved96.8P1mg/L0.11SW846 6020A101/25/2023 18:13RMDD1Chromium, DissolvedNDND,P1mg/L0.0022SW846 6020A101/25/2023 18:13RMDD1Cobalt, DissolvedNDND,P1mg/L0.0056SW846 6020A101/25/2023 18:13RMDD1
Barium, Dissolved         0.077         P1         mg/L         0.0056         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Beryllium, Dissolved         ND         ND, P1         mg/L         0.0010         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Cadmium, Dissolved         ND         ND, P1         mg/L         0.0011         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Cadmium, Dissolved         ND         ND, P1         mg/L         0.0011         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Calcium, Dissolved         96.8         P1         mg/L         0.11         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Chromium, Dissolved         ND         ND, P1         mg/L         0.0022         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Cobalt, Dissolved         ND         ND, P1         mg/L         0.0056         SW846 6020A         1         01/25/2023 18:13         RMD         D1
Beryllium, Dissolved         ND         ND,P1         mg/L         0.0010         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Cadmium, Dissolved         ND         ND         P1         mg/L         0.0011         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Calcium, Dissolved         96.8         P1         mg/L         0.11         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Chromium, Dissolved         96.8         P1         mg/L         0.11         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Chromium, Dissolved         ND         ND,P1         mg/L         0.0022         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Cobalt, Dissolved         ND         ND,P1         mg/L         0.0026         SW846 6020A         1         01/25/2023 18:13         RMD         D1
Cadmium, Dissolved         ND         ND,P1         mg/L         0.0011         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Calcium, Dissolved         96.8         P1         mg/L         0.11         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Chromium, Dissolved         ND         ND,P1         mg/L         0.0022         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Chromium, Dissolved         ND         ND,P1         mg/L         0.0022         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Cobalt, Dissolved         ND         ND,P1         mg/L         0.0056         SW846 6020A         1         01/25/2023 18:13         RMD         D1
Calcium, Dissolved         96.8         P1         mg/L         0.11         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Chromium, Dissolved         ND         ND,P1         mg/L         0.0022         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Cobalt, Dissolved         ND         ND,P1         mg/L         0.0056         SW846 6020A         1         01/25/2023 18:13         RMD         D1
Chromium, Dissolved         ND         ND,P1         mg/L         0.0022         SW846 6020A         1         01/25/2023 18:13         RMD         D1           Cobalt, Dissolved         ND         ND,P1         mg/L         0.0056         SW846 6020A         1         01/25/2023 18:13         RMD         D1
Cobalt, Dissolved         ND         ND,P1         mg/L         0.0056         SW846         SW846         01/25/2023         18:13         RMD         D1
Copper, Dissolved ND ND,P1 mg/L 0.0056 SW846 6020A 1 01/25/2023 18:13 RMD D1
Iron, Dissolved ND ND,P1 mg/L 0.056 SW846 6020A 1 01/25/2023 18:13 RMD D1
Lead, Dissolved ND ND,P1 mg/L 0.0022 SW846 6020A 1 01/25/2023 18:13 RMD D1
Magnesium, Dissolved         7.5         P1         mg/L         0.11         SW846 6020A         1         01/25/2023 18:13         RMD         D1
Manganese, Dissolved         0.067         P1         mg/L         0.0056         SW846 6020A         1         01/25/2023 18:13         RMD         D1
Mercury, Dissolved         ND         ND,P1         mg/L         0.00050         SW846 7470A         1         01/19/2023 13:23         WDA         D
Nickel, Dissolved         ND         ND,P1         mg/L         0.0056         SW846 6020A         1         01/25/2023 18:13         RMD         D1
Potassium, Dissolved         7.0         P1         mg/L         0.11         SW846 6020A         1         01/25/2023 18:13         RMD         D1
Selenium, Dissolved         ND         ND,11,P 1         mg/L         0.0056         SW846 6020A         1         01/25/2023 18:13         RMD         D1
Silver, Dissolved ND ND,P1 mg/L 0.0022 SW846 6020A 1 01/25/2023 18:13 RMD D1
Sodium, Dissolved         104         P1         mg/L         0.11         SW846 6020A         1         01/25/2023 18:13         RMD         D1
Thallium, Dissolved         ND         ND,P1         mg/L         0.0010         SW846 6020A         1         01/25/2023 18:13         RMD         D1
Trivalent Chromium         ND         ND,P1         mg/L         0.010         Calculation         1         01/25/2023 21:15         CW         F
Vanadium, Dissolved ND ND,P1 mg/L 0.0022 SW846 6020A 1 01/25/2023 18:13 RMD D1
Zinc, Dissolved 0.016 P1 mg/L 0.0056 SW846 6020A 1 01/25/2023 18:13 RMD D1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
1,1-Dichloroethene	ND	ND,7,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/23/2023 18:26	TMP	А



Client Sample ID Lab Sample ID MW-09 3283219004 .

01/16/2023 14:45 01/17/2023 08:35

Collected

Lab Receipt

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Carbon Disulfide	ND	ND,5,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Chloroform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Cyclohexane	ND	ND,6,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Isopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Methyl acetate	5.9	9,10,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Tetrachloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
trans-1,2-Dichloroethene	ND	ND,8,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Trichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:26	TMP	А

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	101%	62 - 133	01/23/2023 18:26	
4-Bromofluorobenzene	460-00-4	107%	79 - 114	01/23/2023 18:26	
Dibromofluoromethane	1868-53-7	95.9%	78 - 116	01/23/2023 18:26	
Toluene-d8	2037-26-5	100 %	76 - 127	01/23/2023 18:26	

### WET CHEMISTRY

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Hexavalent Chromium	ND	ND,P1	mg/L	0.010	SW846 7196A	1	01/17/2023 10:00	GMM	F



				Resi	ults						
Client Sample ID Lab Sample ID	MW-09 3283219004						Collected Lab Recei	-	1/16/2 1/17/2		
WET CHEMISTRY	′ (cont.)										
Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL		Method	Dilution	Analysis Date/T	<u>Fime</u>	<u>By</u>	<u>Cntr</u>



```
        Client Sample ID
        MW-01
        Collected
        01/16/2023 15:45

        Lab Sample ID
        3283219005
        Lab Receipt
        01/17/2023 08:35
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## METALS

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Dissolved	ND	ND,P1	mg/L	0.089	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Antimony, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Arsenic, Dissolved	ND	ND,P1	mg/L	0.0030	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Barium, Dissolved	0.061	P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0011	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Calcium, Dissolved	160	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Copper, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Iron, Dissolved	0.078	P1	mg/L	0.056	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Lead, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Magnesium, Dissolved	41.7	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Manganese, Dissolved	0.18	P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	SW846 7470A	1	01/19/2023 13:24	WDA	D
Nickel, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Potassium, Dissolved	16.0	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Selenium, Dissolved	ND	ND,11,P 1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Silver, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Sodium, Dissolved	440	P1	mg/L	110	SW846 6020A	1000	01/25/2023 18:52	RMD	D1
Thallium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Trivalent Chromium	ND	ND,P1	mg/L	0.010	Calculation	1	01/25/2023 21:16	CW	F
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:15	RMD	D1
Zinc, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:15	RMD	D1

## **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
1,1-Dichloroethene	ND	ND,7,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/23/2023 18:49	TMP	А



Client Sample ID Lab Sample ID MW-01 3283219005

Collected 0<sup>4</sup> Lab Receipt 0<sup>4</sup>

01/16/2023 15:45 01/17/2023 08:35

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Carbon Disulfide	ND	ND,5,12, 13,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	Α
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Chloroform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
cis-1,3-Dichloropropene	ND	ND,16,P 1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Cyclohexane	ND	, ND,6,14, 15,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Freon 113	ND	ND,17,1 8,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Isopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Methyl acetate	6.9	9,10,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Methyl cyclohexane	ND	ND,19,P 1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 18:49	TMP	Α
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Tetrachloroethene	3.7	P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
trans-1,2-Dichloroethene	ND	ND,8,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Trichloroethene	1.3	P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 18:49	TMP	A

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<b>Qualifiers</b>
1,2-Dichloroethane-d4	17060-07-0	98.7%	62 - 133	01/23/2023 18:49	
4-Bromofluorobenzene	460-00-4	103 %	79 - 114	01/23/2023 18:49	
Dibromofluoromethane	1868-53-7	95.7%	78 - 116	01/23/2023 18:49	
Toluene-d8	2037-26-5	104%	76 - 127	01/23/2023 18:49	

### WET CHEMISTRY



Client Sample ID	MW-01					Collected	01/16	/2023 1	5:45
Lab Sample ID	3283219005					Lab Recei	pt 01/17	/2023 0	8:35
<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	Cntr
Hexavalent Chromium	ND	ND,P1	mg/L	0.010	SW846 7196A	1	01/17/2023 10:00	GMM	F



Results

 Client Sample ID
 TB-03
 Collected
 01/16/2023 15:45

 Lab Sample ID
 3283219006
 01/17/2023 08:35

# **VOLATILE ORGANICS**

<u>Compound</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
1,1-Dichloroethene	ND	ND,7,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Acetone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Carbon Disulfide	ND	ND,5,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Chloroform	1.7	P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Cyclohexane	ND	ND,6,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
lsopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Methyl acetate	7.4	9,10,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Tetrachloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	A
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	A
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/23/2023 19:12	TMP	A

2037-26-5

Toluene-d8



				Results	5				
Client Sample ID Lab Sample ID	TB-03 3283219006					Collected Lab Recei		6/2023 1 7/2023 0	
VOLATILE ORGAN	IICS (cont.)								
Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	Dilution	Analysis Date/Time	By	<u>Cntr</u>
trans-1,2-Dichloroethene	ND	ND,8,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Trichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/23/2023 19:12	TMP	А
SURROGATES									
Compound	CAS No			<u>Recovery</u>	Limits(%)	Analysis	Date/Time	Qualifie	rs
1,2-Dichloroethane-d4	17060-07-0			100 %	62 - 133	01/23/2023	19:12		
4-Bromofluorobenzene	460-00-4			103 %	79 - 114	01/23/2023	19:12		
Dibromofluoromethane	1868-53-7			98.4%	78 - 116	01/23/2023	19:12		

76 - 127

01/23/2023 19:12

99.7%



#### Results

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        Client Sample ID
        MW-08
        Collected
        01/17/2023 16:15

        Lab Sample ID
        3283430001
        Lab Receipt
        01/18/2023 08:42
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# METALS

Compound	<u>Result</u>	Flag	<u>Units</u>	<u>RDL</u>	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Aluminum, Dissolved	0.12	P1	mg/L	0.089	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Antimony, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Arsenic, Dissolved	0.0084	P1	mg/L	0.0030	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Barium, Dissolved	0.13	P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Beryllium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Cadmium, Dissolved	ND	ND,P1	mg/L	0.0011	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Calcium, Dissolved	61.1	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Chromium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Cobalt, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Copper, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Iron, Dissolved	0.44	P1	mg/L	0.056	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Lead, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Magnesium, Dissolved	11.3	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Manganese, Dissolved	3.0	P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Mercury, Dissolved	ND	ND,P1	mg/L	0.00050	SW846 7470A	1	01/19/2023 13:25	WDA	D
Nickel, Dissolved	ND	ND,P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Potassium, Dissolved	5.7	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Selenium, Dissolved	ND	ND,21,P 1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Silver, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Sodium, Dissolved	61.4	P1	mg/L	0.11	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Thallium, Dissolved	ND	ND,P1	mg/L	0.0010	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Trivalent Chromium	ND	ND,P1	mg/L	1.0	Calculation	1	01/27/2023 10:13	CW	F
Vanadium, Dissolved	ND	ND,P1	mg/L	0.0022	SW846 6020A	1	01/25/2023 18:54	RMD	D1
Zinc, Dissolved	0.0072	P1	mg/L	0.0056	SW846 6020A	1	01/25/2023 18:54	RMD	D1

# **VOLATILE ORGANICS**

Compound	<u>Result</u>	<u>Flag</u>	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Acetone	ND	ND,20,P 1	ug/L	10.0	SW846 8260C	1	01/26/2023 15:25	TMP	А



**Results** 

Client Sample ID Lab Sample ID MW-08 3283430001 .

01/17/2023 16:15 01/18/2023 08:42

Collected

Lab Receipt

# **VOLATILE ORGANICS (cont.)**

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
Benzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Carbon Disulfide	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Chloroform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
lsopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Methyl acetate	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Tetrachloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Total Xylenes	ND	ND,P1	ug/L	3.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Trichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 15:25	TMP	А

#### SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	92%	62 - 133	01/26/2023 15:25	
4-Bromofluorobenzene	460-00-4	109 %	79 - 114	01/26/2023 15:25	
Dibromofluoromethane	1868-53-7	91.5 %	78 - 116	01/26/2023 15:25	
Toluene-d8	2037-26-5	97.3 %	76 - 127	01/26/2023 15:25	

### WET CHEMISTRY

Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	Cntr
Hexavalent Chromium	ND	ND,P1	mg/L	1.0	SW846 7196A	100	01/18/2023 12:10	GMM	F



	Results	
MW-08		Collecte

# Client Sample ID MW-08 Collected 01/17/2023 16:15 Lab Sample ID 3283430001 Lab Receipt 01/18/2023 08:42

<u>Compound</u> <u>Result</u> <u>Flag</u> <u>Units</u> <u>RDL</u> <u>Method</u> <u>Dilution</u> <u>Analysis Date/Time</u> <u>By</u> <u>Cntr</u>
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#### Results

Client Sample ID Lab Sample ID TB-04 3283430002

01/17/2023 00:00 01/18/2023 08:42

Collected

Lab Receipt

# **VOLATILE ORGANICS**

<u>Compound</u>	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
1,1,1-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
1,1,2,2-Tetrachloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
1,1,2-Trichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
1,1-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
1,1-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
1,2,3-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
1,2,4-Trichlorobenzene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
1,2-Dibromo-3-chloropropane	ND	ND,P1	ug/L	7.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
1,2-Dibromoethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
1,2-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
1,2-Dichloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
1,2-Dichloropropane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
1,3-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
1,4-Dichlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
2-Butanone	ND	ND,P1	ug/L	10.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
2-Hexanone	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
4-Methyl-2-Pentanone(MIBK)	ND	ND,P1	ug/L	5.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Acetone	ND	ND,20,P	ug/L	10.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Benzene	ND	1 ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Bromochloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Bromodichloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Bromoform	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Bromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Carbon Disulfide	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Carbon Tetrachloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Chlorobenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Chlorodibromomethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Chloroethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Chloroform	1.6	P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Chloromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
cis-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
cis-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Dichlorodifluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Ethylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Freon 113	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	A
Isopropylbenzene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Methyl acetate	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/26/2023 12:46	TMP	A
Methyl cyclohexane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	A
Methyl t-Butyl Ether	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	A
Methylene Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	A
mp-Xylene	ND	ND,P1	ug/L	2.0	SW846 8260C	1	01/26/2023 12:46	TMP	A
o-Xylene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	A
Styrene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	A
Tetrachloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	A
Toluene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	A
Total Xylenes	ND		-			1		TMP	
	שא	ND,P1	ug/L	3.0	SW846 8260C	I	01/26/2023 12:46	INP	Α

2037-26-5

Toluene-d8



				Result	ts				
Client Sample ID Lab Sample ID	TB-04 3283430002					Collected Lab Recei		7/2023 0 8/2023 0	
VOLATILE ORGAN	ICS (cont.)								
Compound	<u>Result</u>	Flag	<u>Units</u>	RDL	Method	<b>Dilution</b>	Analysis Date/Time	<u>By</u>	<u>Cntr</u>
trans-1,2-Dichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
trans-1,3-Dichloropropene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Trichloroethene	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Trichlorofluoromethane	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
Vinyl Chloride	ND	ND,P1	ug/L	1.0	SW846 8260C	1	01/26/2023 12:46	TMP	А
SURROGATES									
Compound	CAS No			<u>Recovery</u>	Limits(%)	<u>Analysis I</u>	Date/Time	<u>Qualifier</u>	<u>rs</u>
1,2-Dichloroethane-d4	17060-07-0			87.3%	62 - 133	01/26/2023	12:46		
4-Bromofluorobenzene	460-00-4			112 %	79 - 114	01/26/2023	12:46		
Dibromofluoromethane	1868-53-7			90.2%	78 - 116	01/26/2023	12:46		

76 - 127

01/26/2023 12:46

96.8%



# Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3282926001	MW-03	SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8260C	N/A	
		SW846 8260C	N/A	
		Calculation	N/A	
		SW846 7196A	N/A	
3282926002	MW-02	SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8260C	N/A	
		Calculation	N/A	
		SW846 7196A	N/A	
3282926003	MW-04	SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8260C	N/A	
		Calculation	N/A	
		SW846 7196A	N/A	
3282926004	TB-01	SW846 8260C	N/A	
3283083001	MW-05	SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8260C	N/A	
		Calculation	N/A	
		SW846 7196A	N/A	
3283083002	MW-05D	SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8260C	N/A	
		Calculation	N/A	
		SW846 7196A	N/A	
3283083003	MW-06	SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8260C	N/A	
		Calculation	N/A	
		SW846 7196A	N/A	
3283083004	MW-12	SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8260C	N/A	
		Calculation	N/A	
		SW846 7196A	N/A	
3283083005	TB-02	SW846 8260C	N/A	
3283219001	MW-07	SW846 6020A	SW846 3015A	
	-	SW846 7470A	SW846 7470A	
		SW846 8260C	N/A	
		Calculation	N/A	
		SW846 7196A	N/A	
3283219002	MW-11	SW846 6020A	SW846 3015A	
5200210002		SW846 7470A	SW846 7470A	
		SW846 8260C	N/A	
		Calculation	N/A	
		SW846 7196A	N/A	
3283219003	MW-10	SW846 6020A	SW846 3015A	
12032 19003		SW846 6020A SW846 7470A	SW846 3015A SW846 7470A	
		SW846 7470A SW846 8260C	N/A	
		Calculation	N/A	
		SW846 7196A	N/A	
			1 1/7 1	

#### Project 2022FMA SCI Pittsburgh Phase I

#### Workorder 3282926



Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3283219004	MW-09	SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8260C	N/A	
		Calculation	N/A	
		SW846 7196A	N/A	
3283219005	MW-01	SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8260C	N/A	
		Calculation	N/A	
		SW846 7196A	N/A	
3283219006	TB-03	SW846 8260C	N/A	
3283430001	MW-08	SW846 6020A	SW846 3015A	
		SW846 7470A	SW846 7470A	
		SW846 8260C	N/A	
		Calculation	N/A	
		SW846 7196A	N/A	
3283430002	TB-04	SW846 8260C	N/A	



### METALS

QC Batch					Associated Samples						
	936952 01/19/2023 08:21 WDA	Prep Method Analysis Metho	SW8467 od SW8467			3283 3283	430001 3	282926002 282926003 283083004	3283219004 3283083001 3283219001	3283	3219005 3083002 3219002
Method Blank		3612944	(MB)		Created	d on <u>01</u>	/19/2023 06:	20	For QC	Batch	936952
RESULTS											
<u>Compound</u> Mercury, Dissolved		<u>CAS No</u> 7439-97-6_D	BLK		Result Units		<u>RDL</u> 0.0005	0			Qualifiers ND
Lab Control Standard		3612945	(LCS)		Created	d on <u>01</u>	/19/2023 06:	20	For QC	Batch	936952
RESULTS Compound Mercury, Dissolved	<u>CAS No</u> 7439-97-6_D	-	<u>Result</u> ' <u>mg/L)</u> 0.0019	<u>Orig.</u> <u>Result</u> (mg/L)	<u>Spk</u> <u>Added</u> (mg/L) 0.0020	<u>Rec.</u> (%) 96	<u>Limits (%)</u> 85 - 115	RPL	<u>) Limit (%)</u>		Qualifiers
Matrix Spike	**	3612946	(MS)	14 - 1 1	3282926002						936952
Matrix Spike Duplicate	Μ	**NOTE - The O atrix Spike perce 3612947				nal value			such.	-	936952
RESULTS Compound Mercury, Dissolved Mercury, Dissolved	<u>CAS No</u> 7439-97-6_D 7439-97-6_D	MS	<u>Result</u> (mg/L) 0.0060 0.0040	Orig. Result (mg/L) 0	<u>Spk</u> <u>Added</u> (mg/L) 0.0050 0.0050	<u>Rec.</u> (%) 119 80.4	<u>Limits (%)</u> 70 - 130 70 - 130		<u>) Limit (%)</u> <u>38.90*</u> (Max-20	)	Qualifiers
Matrix Spike		3612948 **NOTE - The O atrix Spike perce				result a			urpose of calcula		936952
Matrix Spike Duplicate		3612949	(MSD)		3283219002					Batch	936952
RESULTS Compound	<u>CAS No</u>	<u>.</u>	<u>Result</u> (mg/L)	<u>Orig.</u> <u>Result</u> (mg/L)	<u>Spk</u> Added (mg/L)	<u>Rec.</u> (%)	Limits (%)	RPD	9 Limit (%)		Qualifiers
Mercury, Dissolved Mercury, Dissolved	7439-97-6_D 7439-97-6_D		0.0054 0.0061	0.000005 0.000005	0.0050 0.0050	107 122	70 - 130 70 - 130	RPD	<u>12.60</u> (Max-20	)	



**METALS** (cont.)



For QC Batch 936394

# QUALITY CONTROL SAMPLES

#### **VOLATILE ORGANICS**

QC Batch
 QC Batch
 936394
 Date
 N/A
 Tech.

Prep Method N/A Analysis Method SW846 8260C

3612254

(MB)

Associate	ed Samples			
3282926001	3282926002	3282926003	3282926004	
3283083001	3283083002	3283083003	3283083004	
3283083005				

Created on 01/17/2023 22:28

#### Method Blank

# RESULTS

<u>Compound</u>	CAS No		Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND ug/L	2.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND ug/L	5.0	ND
Acetone	67-64-1	BLK	ND ug/L	10.0	ND
Benzene	71-43-2	BLK	ND ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND ug/L	1.0	ND



# VOLATILE ORGANICS (cont.)

#### RESULTS

<u>Compound</u>	CAS No		<u>Result</u> <u>Units</u>	<u>RDL</u>	<u>Qualifiers</u>
Methyl t-Butyl Ether	1634-04-4	BLK	ND ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND ug/L	1.0	ND
Styrene	100-42-5	BLK	ND ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND ug/L	1.0	ND
Toluene	108-88-3	BLK	ND ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND ug/L	1.0	ND

#### SURROGATES

Compound	CAS No		<u>Result</u> (ug/L)	Expected (ug/L)	<u>Rec.</u> (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	26.50	30	88.4	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	33.30	30	111	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	26.40	30	87.8	78 - 116	
Toluene-d8	2037-26-5	BLK	29.30	30	97.8	76 - 127	

Lab Control Standard	3612255 (LCS)	Created on 01/17/2023 22:28	For QC Batch <u>936394</u>

#### RESULTS

			Result	<u>Orig.</u> Result	<u>Spk</u> Added	<u>Rec.</u>			
Compound	<u>CAS No</u>		<u>(ug/L)</u>	<u>(ug/L)</u>	<u>(ug/L)</u>	<u>(%)</u>	<u>Limits (%)</u>	<u>RPD Limit (%)</u>	<u>Qualifiers</u>
1,1,1-Trichloroethane	71-55-6	LCS	21		20	105	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	21.60		20	108	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	20.50		20	103	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20.70		20	103	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.60		20	108	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	21		20	105	61 - 126		
1,2,4-Trichlorobenzene	120-82-1	LCS	21		20	105	67 - 123		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	19.40		20	97.2	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	20.60		20	103	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.10		20	105	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	20.40		20	102	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	21		20	105	81 - 127		
1,3-Dichlorobenzene	541-73-1	LCS	21.60		20	108	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	21.30		20	106	81 - 116		
2-Butanone	78-93-3	LCS	93.30		100	93.3	50 - 152		
2-Hexanone	591-78-6	LCS	97.10		100	97.1	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	112		100	112	71 - 146		
Acetone	67-64-1	LCS	104		100	104	40 - 151		
Benzene	71-43-2	LCS	21.30		20	106	80 - 124		



# **VOLATILE ORGANICS (cont.)**

#### RESULTS

11200210									
Compound	CAS No		<u>Result</u> (ug/L)	<u>Orig.</u> <u>Result</u> (ug/L)	<u>Spk</u> <u>Added</u> (ug/L)	<u>Rec.</u> <u>(%)</u>	<u>Limits (%)</u>	RPD Limit (%)	Qualifiers
Bromochloromethane	74-97-5	LCS	21		20	105	73 - 117		
Bromodichloromethane	75-27-4	LCS	20.80		20	104	79 - 126		
Bromoform	75-25-2	LCS	21.50		20	107	70 - 123		
Bromomethane	74-83-9	LCS	21		20	105	45 - 148		
Carbon Disulfide	75-15-0	LCS	22.30		20	112	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	21.50		20	107	62 - 132		
Chlorobenzene	108-90-7	LCS	20.50		20	103	85 - 117		
Chlorodibromomethane	124-48-1	LCS	18		20	90.2	77 - 122		
Chloroethane	75-00-3	LCS	23.80		20	119	51 - 142		
Chloroform	67-66-3	LCS	20.80		20	104	78 - 122		
Chloromethane	74-87-3	LCS	20.30		20	101	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.90		20	104	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.70		20	103	81 - 121		
Cyclohexane	110-82-7	LCS	22.50		20	113	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	24		20	120	17 - 166		
Ethylbenzene	100-41-4	LCS	21.20		20	106	80 - 124		
Freon 113	76-13-1	LCS	22.80		20	114	50 - 130		
lsopropylbenzene	98-82-8	LCS	23.20		20	116	73 - 129		
Methyl acetate	79-20-9	LCS	18.80		20	94.1	70 - 130		
Methyl cyclohexane	108-87-2	LCS	22		20	110	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	20.40		20	102	69 - 115		
Methylene Chloride	75-09-2	LCS	20.50		20	102	76 - 121		
mp-Xylene	108383/106423	LCS	43.30		40	108	79 - 125		
o-Xylene	95-47-6	LCS	21.20		20	106	79 - 124		
Styrene	100-42-5	LCS	22.60		20	113	79 - 123		
Tetrachloroethene	127-18-4	LCS	20.70		20	103	72 - 124		
Toluene	108-88-3	LCS	21.40		20	107	80 - 125		
Total Xylenes	1330-20-7	LCS	64.50		60	108	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	21.20		20	106	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	21		20	105	78 - 126		
Trichloroethene	79-01-6	LCS	19.60		20	98	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	21.50		20	107	38 - 123		
Vinyl Chloride	75-01-4	LCS	22.30		20	112	27 - 138		

#### SURROGATES

Compound	CAS No		<u>Result</u> (ug/L)	Expected (ug/L)	<u>Rec.</u> (%)	<u>Limits (%)</u>	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	26.70	30	88.9	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	32.20	30	107	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	26.80	30	89.4	78 - 116	
Toluene-d8	2037-26-5	LCS	28.10	30	93.6	76 - 127	

# **VOLATILE ORGANICS (cont.)**

QC Batch
 QC Batch
 937135
 Date
 N/A
 Tech.

Prep MethodN/AAnalysis MethodSW846 8260C

(MB)

3613232

Associated Samples

3282926001

Method Blank

Created on 01/19/2023 12:42

For QC Batch 937135

#### RESULTS

Compound	CAS No		Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND ug/L	2.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND ug/L	5.0	ND
Acetone	67-64-1	BLK	ND ug/L	10.0	ND
Benzene	71-43-2	BLK	ND ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND ug/L	1.0	ND



# **VOLATILE ORGANICS (cont.)**

#### RESULTS

Compound	CAS No		Result Units	<u>RDL</u>	Qualifiers
Methyl t-Butyl Ether	1634-04-4	BLK	ND ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND ug/L	1.0	ND
Styrene	100-42-5	BLK	ND ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND ug/L	1.0	ND
Toluene	108-88-3	BLK	ND ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND ug/L	1.0	ND

#### SURROGATES

<u>Compound</u>	CAS No		<u>Result</u> (ug/L)	Expected (ug/L)	<u>Rec.</u> (%)	<u>Limits (%)</u>	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	BLK	25.10	30	83.6	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	32.70	30	109	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	26.20	30	87.3	78 - 116	
Toluene-d8	2037-26-5	BLK	28.70	30	95.8	76 - 127	

#### Lab Control Standard

#### Created on 01/19/2023 12:42

#### For QC Batch 937135

#### RESULTS

			<u>Result</u>	<u>Orig.</u> <u>Result</u>	<u>Spk</u> Added	Rec.			
Compound	CAS No		<u>(ug/L)</u>	<u>(ug/L)</u>	(ug/L)	<u>(%)</u>	<u>Limits (%)</u>	RPD Limit (%)	<u>Qualifiers</u>
1,1,1-Trichloroethane	71-55-6	LCS	20.30		20	101	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	22.90		20	115	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	20.50		20	102	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	20		20	100	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	21.40		20	107	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	22.70		20	114	61 - 126		
1,2,4-Trichlorobenzene	120-82-1	LCS	22.90		20	115	67 - 123		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	22		20	110	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	20.80		20	104	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	21.80		20	109	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	20.20		20	101	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.50		20	102	81 - 127		
1,3-Dichlorobenzene	541-73-1	LCS	22		20	110	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	22		20	110	81 - 116		
2-Butanone	78-93-3	LCS	116		100	116	50 - 152		
2-Hexanone	591-78-6	LCS	107		100	107	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	119		100	119	71 - 146		
Acetone	67-64-1	LCS	117		100	117	40 - 151		
Benzene	71-43-2	LCS	20.70		20	103	80 - 124		

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3613233 (LCS)



# **VOLATILE ORGANICS (cont.)**

#### RESULTS

11200210									
Compound	CAS No		<u>Result</u> (ug/L)	<u>Orig.</u> <u>Result</u> (ug/L)	<u>Spk</u> <u>Added</u> (ug/L)	<u>Rec.</u> <u>(%)</u>	Limits (%)	RPD Limit (%)	Qualifiers
Bromochloromethane	74-97-5	LCS	20.90		20	104	73 - 117		
Bromodichloromethane	75-27-4	LCS	20.90		20	104	79 - 126		
Bromoform	75-25-2	LCS	22.60		20	113	70 - 123		
Bromomethane	74-83-9	LCS	30.60		20	153*	45 - 148		
Carbon Disulfide	75-15-0	LCS	23.60		20	118	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	21.80		20	109	62 - 132		
Chlorobenzene	108-90-7	LCS	19.90		20	99.3	85 - 117		
Chlorodibromomethane	124-48-1	LCS	17.90		20	89.6	77 - 122		
Chloroethane	75-00-3	LCS	24.10		20	120	51 - 142		
Chloroform	67-66-3	LCS	20.20		20	101	78 - 122		
Chloromethane	74-87-3	LCS	20.50		20	103	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	20.70		20	103	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	20.40		20	102	81 - 121		
Cyclohexane	110-82-7	LCS	22.90		20	115	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	23.30		20	116	17 - 166		
Ethylbenzene	100-41-4	LCS	20.80		20	104	80 - 124		
Freon 113	76-13-1	LCS	23		20	115	50 - 130		
Isopropylbenzene	98-82-8	LCS	23.10		20	116	73 - 129		
Methyl acetate	79-20-9	LCS	21.10		20	106	70 - 130		
Methyl cyclohexane	108-87-2	LCS	23.50		20	117	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	21.20		20	106	69 - 115		
Methylene Chloride	75-09-2	LCS	20.60		20	103	76 - 121		
mp-Xylene	108383/106423	LCS	42.30		40	106	79 - 125		
o-Xylene	95-47-6	LCS	20.60		20	103	79 - 124		
Styrene	100-42-5	LCS	22.10		20	110	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.40		20	97	72 - 124		
Toluene	108-88-3	LCS	20.70		20	103	80 - 125		
Total Xylenes	1330-20-7	LCS	62.80		60	105	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.60		20	103	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	21.50		20	107	78 - 126		
Trichloroethene	79-01-6	LCS	19		20	95.2	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	20.30		20	102	38 - 123		
Vinyl Chloride	75-01-4	LCS	22.20		20	111	27 - 138		

#### SURROGATES

Compound	CAS No		<u>Result</u> (ug/L)	Expected (ug/L)	<u>Rec.</u> (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	27	30	90	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	32.70	30	109	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	27.50	30	91.6	78 - 116	
Toluene-d8	2037-26-5	LCS	28.30	30	94.4	76 - 127	



# **VOLATILE ORGANICS (cont.)**

--- QC Batch <u>QC Batch</u> 937662 <u>Date</u> N/A <u>Tech.</u>

Prep MethodN/AAnalysis MethodSW846 8260C

(MB)

3614377

Associat	ed Samples		
3283219005	3283219006	3283219001	3283219002
3283219003	3283219004		

Method Blank

Created on 01/23/2023 13:39

For QC Batch 937662

#### RESULTS

Compound	CAS No		Result Units	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND ug/L	2.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND ug/L	7.0	ND
1,2-Dibromoethane	106-93-4	BLK	ND ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND ug/L	5.0	ND
Acetone	67-64-1	BLK	ND ug/L	10.0	ND
Benzene	71-43-2	BLK	ND ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	8.9 ug/L	2.0	
Methyl cyclohexane	108-87-2	BLK	ND ug/L	1.0	ND



# **VOLATILE ORGANICS (cont.)**

#### RESULTS

<u>Compound</u>	CAS No		<u>Result</u> <u>Units</u>	<u>RDL</u>	<u>Qualifiers</u>
Methyl t-Butyl Ether	1634-04-4	BLK	ND ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND ug/L	1.0	ND
Styrene	100-42-5	BLK	ND ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND ug/L	1.0	ND
Toluene	108-88-3	BLK	ND ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND ug/L	1.0	ND

#### SURROGATES

Compound	CAS No		<u>Result</u> (ug/L)	Expected (ug/L)	<u>Rec.</u> (%)	<u>Limits (%)</u>	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	29.90	30	99.7	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	30	30	100	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	28.70	30	95.6	78 - 116	
Toluene-d8	2037-26-5	BLK	29.90	30	99.6	76 - 127	

#### Lab Control Standard

#### Created on 01/23/2023 13:39

#### For QC Batch <u>937662</u>

#### RESULTS

			Result	<u>Orig.</u> Result	<u>Spk</u> Added	Rec.			
<u>Compound</u>	CAS No		(ug/L)	(ug/L)	<u>/ug/L)</u>	<u>(%)</u>	<u>Limits (%)</u>	RPD Limit (%)	<u>Qualifiers</u>
1,1,1-Trichloroethane	71-55-6	LCS	23.90		20	120	66 - 130		
1,1,2,2-Tetrachloroethane	79-34-5	LCS	19.70		20	98.3	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	18.90		20	94.7	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	23.60		20	118	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	26.70		20	134*	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	16.70		20	83.7	61 - 126		
1,2,4-Trichlorobenzene	120-82-1	LCS	18.20		20	90.9	67 - 123		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	14.50		20	72.7	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	19.60		20	98.1	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	18.60		20	93	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	21.60		20	108	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.10		20	101	81 - 127		
1,3-Dichlorobenzene	541-73-1	LCS	19		20	94.8	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	18.50		20	92.4	81 - 116		
2-Butanone	78-93-3	LCS	104		100	104	50 - 152		
2-Hexanone	591-78-6	LCS	87.60		100	87.6	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	89.30		100	89.3	71 - 146		
Acetone	67-64-1	LCS	91.90		100	91.9	40 - 151		
Benzene	71-43-2	LCS	21.50		20	108	80 - 124		

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3614378 (LCS)



# **VOLATILE ORGANICS (cont.)**

#### RESULTS

11200210									
Compound	CAS No		<u>Result</u> (ug/L)	<u>Orig.</u> <u>Result</u> (ug/L)	<u>Spk</u> <u>Added</u> (ug/L)	<u>Rec.</u> (%)	<u>Limits (%)</u>	RPD Limit (%)	Qualifiers
Bromochloromethane	74-97-5	LCS	20.80		20	104	73 - 117		
Bromodichloromethane	75-27-4	LCS	20.10		20	100	79 - 126		
Bromoform	75-25-2	LCS	15.80		20	79.2	70 - 123		
Bromomethane	74-83-9	LCS	23.50		20	118	45 - 148		
Carbon Disulfide	75-15-0	LCS	30.50		20	152*	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	23.70		20	119	62 - 132		
Chlorobenzene	108-90-7	LCS	19.10		20	95.6	85 - 117		
Chlorodibromomethane	124-48-1	LCS	16.70		20	83.4	77 - 122		
Chloroethane	75-00-3	LCS	10.80		20	54.1	51 - 142		
Chloroform	67-66-3	LCS	22.70		20	114	78 - 122		
Chloromethane	74-87-3	LCS	21.60		20	108	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	23.80		20	119	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	17.30		20	86.3	81 - 121		
Cyclohexane	110-82-7	LCS	26.60		20	133*	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	21.30		20	107	17 - 166		
Ethylbenzene	100-41-4	LCS	19.50		20	97.5	80 - 124		
Freon 113	76-13-1	LCS	25.60		20	128	50 - 130		
lsopropylbenzene	98-82-8	LCS	20.40		20	102	73 - 129		
Methyl acetate	79-20-9	LCS	31.40		20	157*	70 - 130		
Methyl cyclohexane	108-87-2	LCS	23.50		20	117	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	21.40		20	107	69 - 115		
Methylene Chloride	75-09-2	LCS	21.80		20	109	76 - 121		
mp-Xylene	108383/106423	LCS	39.70		40	99.4	79 - 125		
o-Xylene	95-47-6	LCS	19.30		20	96.6	79 - 124		
Styrene	100-42-5	LCS	20.10		20	101	79 - 123		
Tetrachloroethene	127-18-4	LCS	19.80		20	99	72 - 124		
Toluene	108-88-3	LCS	19.50		20	97.5	80 - 125		
Total Xylenes	1330-20-7	LCS	59.10		60	98.4	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	25.70		20	129*	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	17.30		20	86.3	78 - 126		
Trichloroethene	79-01-6	LCS	19.70		20	98.4	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	10.80		20	53.8	38 - 123		
Vinyl Chloride	75-01-4	LCS	20.40		20	102	27 - 138		

#### SURROGATES

Compound	CAS No		<u>Result</u> (ug/L)	Expected (ug/L)	<u>Rec.</u> (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	32.10	30	107	62 - 133	
4-Bromofluorobenzene	460-00-4	LCS	30.10	30	100	79 - 114	
Dibromofluoromethane	1868-53-7	LCS	30.80	30	103	78 - 116	
Toluene-d8	2037-26-5	LCS	30.20	30	101	76 - 127	



# QUALITY CONTROL SAMPLES

#### V =

Acetone

Acetone

Benzene

Benzene

Bromochloromethane

Bromochloromethane

Bromodichloromethane

Bromodichloromethane

67-64-1

67-64-1

71-43-2

71-43-2

74-97-5

74-97-5

75-27-4

75-27-4

MS

MSD

MS

MSD

MS

MSD

MS

MSD

VOLATILE ORGANIC	S (cont.)									
Matrix Spike		3614450	(MS)		32832190	005			For QC Batch	937662
		****NOTE - The 0 Matrix Spike perc							e of calculating	
Matrix Spike Duplicate		3614451	(MSD)		32832190	005			For QC Batch	937662
RESULTS										
				<u>Orig.</u>	<u>Spk</u>	Dee				
Compound			<u>Result</u>	Result	Added	<u>Rec.</u> (%)	Limite $(0/)$	DDD Limit	(0/)	Qualifiara
Compound	CAS No		(ug/L)	<u>(ug/L)</u>	<u>(ug/L)</u>		<u>Limits (%)</u>	<u>RPD Limit</u>	(%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	MS	24.70	0.31	20	122	66 - 130		(Max-20)	
1,1,1-Trichloroethane	71-55-6	MSD	23.80	0.31	20	118	66 - 130	RPD <u>3.86</u>	(1014X-20)	
1,1,2,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane	79-34-5	MS MSD	21.60 21.80	0	20	108 109	74 - 135 74 - 135	RPD 0.67	(Max-16)	
1,1,2-Trichloroethane	79-00-5	MSD	21.80	0	20	107	82 - 126			
1,1,2-Trichloroethane	79-00-5	MSD	20.10	0	20	100	82 - 126	RPD 5.76	(Max-15)	
1,1-Dichloroethane	75-34-3	MS	21.20	0	20	106	78 - 124		(	
1,1-Dichloroethane	75-34-3	MSD	21.70	0	20	108	78 - 124	RPD 2.33	(Max-15)	
1,1-Dichloroethene	75-35-4	MS	25.20	0	20	126	63 - 128		. ,	
1,1-Dichloroethene	75-35-4	MSD	25	0	20	125	63 - 128	RPD <u>1.05</u>	(Max-21)	
1,2,3-Trichlorobenzene	87-61-6	MS	19	0	20	94.8	61 - 126		· /	
1,2,3-Trichlorobenzene	87-61-6	MSD	19.10	0	20	95.6	61 - 126	RPD <u>0.89</u>	(Max-36)	
1,2,4-Trichlorobenzene	120-82-1	MS	21.10	0	20	105	67 - 123			
1,2,4-Trichlorobenzene	120-82-1	MSD	21.10	0	20	106	67 - 123	RPD <u>0.32</u>	(Max-22)	
1,2-Dibromo-3-chloropropane	96-12-8	MS	14.90	0	20	74.7	59 - 133			
1,2-Dibromo-3-chloropropane	96-12-8	MSD	14.20	0	20	70.9	59 - 133	RPD <u>5.14</u>	(Max-26)	
1,2-Dibromoethane	106-93-4	MS	21.40	0	20	107	80 - 124			
1,2-Dibromoethane	106-93-4	MSD	20.60	0	20	103	80 - 124	RPD <u>3.86</u>	(Max-19)	
1,2-Dichlorobenzene	95-50-1	MS	20.60	0	20	103	82 - 118			
1,2-Dichlorobenzene	95-50-1	MSD	20	0	20	100	82 - 118	RPD <u>2.61</u>	(Max-15)	
1,2-Dichloroethane	107-06-2	MS	23	0	20	115	70 - 133			
1,2-Dichloroethane	107-06-2	MSD	21.10	0	20	106	70 - 133	RPD <u>8.46</u>	(Max-19)	
1,2-Dichloropropane	78-87-5	MS	23	0	20	115	81 - 127			
1,2-Dichloropropane	78-87-5	MSD	21.40	0	20	107	81 - 127	RPD <u>7.31</u>	(Max-15)	
1,3-Dichlorobenzene	541-73-1	MS	21.10	0	20	105	81 - 118			
1,3-Dichlorobenzene	541-73-1	MSD	20.50	0	20	103	81 - 118	RPD <u>2.80</u>	(Max-16)	
1,4-Dichlorobenzene	106-46-7	MS	20.70	0	20	103	81 - 116			
1,4-Dichlorobenzene	106-46-7	MSD	20.10	0	20	100	81 - 116	RPD <u>3.01</u>	(Max-15)	
2-Butanone	78-93-3	MS	105	0	100	105	50 - 152 50 152	270	(Moy 16)	
2-Butanone	78-93-3	MSD	109	0	100	109	50 - 152	RPD <u>3.76</u>	(Max-16)	
2-Hexanone 2-Hexanone	591-78-6 591-78-6	MS MSD	90.10 87.70	0	100 100	90.1 87.7	65 - 154 65 - 154	RPD 2.79	(Max-17)	
			91.40	0			71 - 146	NED <u>2.19</u>		
4-Methyl-2-Pentanone(MIBK)	108-10-1	MS MSD	91.40 88	0	100	91.4		RPD 3.70	(Max-16)	
4-Methyl-2-Pentanone(MIBK)	108-10-1	MSD	00	0	100	88	71 - 146	RPD <u>3.79</u>	(Max-16)	

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81.30

93.20

23.40

21.60

22.40

22.40

23

22.20

0

0

0

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20

20

20

20

20

20

81.3

93.2

117

108

112

112

115

111

40 - 151

40 - 151

80 - 124

80 - 124

73 - 117

79 - 126

79 - 126

73 -117 RPD

RPD

RPD

RPD

13.60 (Max-40)

7.64 (Max-26)

0.14 (Max-19)

(Max-16)

<u>3.40</u>



# **VOLATILE ORGANICS (cont.)**

#### RESULTS

Compound	CAS No		<u>Result</u> (ug/L)	<u>Orig.</u> <u>Result</u> (ug/L)	<u>Spk</u> <u>Added</u> (ug/L)	<u>Rec.</u> (%)	<u>Limits (%)</u>	<u>RPD Limit (%)</u>	Qualifiers
Bromoform	75-25-2	MS	18.80	0	20	93.8	70 - 123		
Bromoform	75-25-2	MSD	17.40	0	20	87.2	70 - 123	RPD <u>7.29</u> (Max-16)	
Bromomethane	74-83-9	MS	15.40	0	20	77.1	45 - 148		
Bromomethane	74-83-9	MSD	14.20	0	20	71.2	45 - 148	RPD <u>7.89</u> (Max-26)	
Carbon Disulfide	75-15-0	MS	29.30	0	20	147*	57 - 131		
Carbon Disulfide	75-15-0	MSD	29.30	0	20	146*	57 - 131	RPD <u>0.30</u> (Max-28)	
Carbon Tetrachloride	56-23-5	MS	25.90	0	20	130	62 - 132		
Carbon Tetrachloride	56-23-5	MSD	24	0	20	120	62 - 132	RPD <u>7.64</u> (Max-17)	
Chlorobenzene	108-90-7	MS	21.50	0	20	107	85 - 117		
Chlorobenzene	108-90-7	MSD	20.30	0	20	102	85 - 117	RPD <u>5.56</u> (Max-15)	
Chlorodibromomethane	124-48-1	MS	18.30	0	20	91.3	77 - 122		
Chlorodibromomethane	124-48-1	MSD	17.30	0	20	86.4	77 - 122	RPD <u>5.46</u> (Max-15)	
Chloroethane	75-00-3	MS	14.10	0	20	70.6	51 - 142		
Chloroethane	75-00-3	MSD	13.70	0	20	68.7	51 - 142	RPD <u>2.77</u> (Max-24)	
Chloroform	67-66-3	MS	22.40	0	20	112	78 - 122		
Chloroform	67-66-3	MSD	21.50	0	20	107	78 - 122	RPD <u>4.25</u> (Max-16)	
Chloromethane	74-87-3	MS	23.50	0	20	117	38 - 156		
Chloromethane	74-87-3	MSD	22.50	0	20	113	38 - 156	RPD <u>4.26</u> (Max-27)	
cis-1,2-Dichloroethene	156-59-2	MS	22.80	0	20	114	78 - 125		
cis-1,2-Dichloroethene	156-59-2	MSD	21.50	0	20	108	78 - 125	RPD <u>5.79</u> (Max-21)	
cis-1,3-Dichloropropene	10061-01-5	MS	18.40	0	20	92.1	81 - 121		
cis-1,3-Dichloropropene	10061-01-5	MSD	16.10	0	20	80.7*	81 - 121	RPD <u>13.30</u> (Max-16)	
Cyclohexane	110-82-7	MS	28.70	0	20	143*	66 - 130		
Cyclohexane	110-82-7	MSD	27.80	0	20	139*	66 - 130	RPD <u>2.97</u> (Max-20)	
Dichlorodifluoromethane	75-71-8	MS	24.70	0	20	124	17 - 166		
Dichlorodifluoromethane	75-71-8	MSD	24.40	0	20	122	17 - 166	RPD <u>1.29</u> (Max-24)	
Ethylbenzene	100-41-4	MS	22.60	0	20	113	80 - 124		
Ethylbenzene	100-41-4	MSD	21.30	0	20	106	80 - 124	RPD <u>6.30</u> (Max-19)	
Freon 113	76-13-1	MS	29.10	0	20	146*	50 - 130		
Freon 113	76-13-1	MSD	30.20	0	20	151*	50 - 130	RPD <u>3.61</u> (Max-26)	
lsopropylbenzene	98-82-8	MS	25.90	0	20	129	73 - 129		
lsopropylbenzene	98-82-8	MSD	23.80	0	20	119	73 - 129	RPD <u>8.50</u> (Max-18)	
Methyl acetate	79-20-9	MS	23.70	6.90	20	84.2	70 - 130		
Methyl acetate	79-20-9	MSD	27.70	6.90	20	104	70 - 130	RPD <u>15.50</u> (Max-18)	
Methyl cyclohexane	108-87-2	MS	26.60	0	20	133*	70 - 130		
Methyl cyclohexane	108-87-2	MSD	24.60	0	20	123	70 - 130	RPD <u>7.84</u> (Max-18)	
Methyl t-Butyl Ether	1634-04-4	MS	18.70	0	20	93.6	69 - 115		
Methyl t-Butyl Ether	1634-04-4	MSD	20.30	0	20	102	69 - 115	RPD <u>8.14</u> (Max-20)	
Methylene Chloride	75-09-2	MS	20.80	0	20	104	76 - 121		
Methylene Chloride	75-09-2	MSD	21.50	0	20	108	76 - 121	RPD <u>3.49</u> (Max-17)	
mp-Xylene	108383/106423	MS	46.10	0	40	115	79 - 125		
mp-Xylene	108383/106423	MSD	42.90	0	40	107	79 - 125	RPD <u>7.21</u> (Max-21)	
o-Xylene	95-47-6	MS	22.10	0	20	110	79 - 124		
o-Xylene	95-47-6	MSD	20.60	0	20	103	79 - 124	RPD <u>7.04</u> (Max-19)	
Styrene	100-42-5	MS	24.20	0	20	121	79 - 123		
Styrene	100-42-5	MSD	21.90	0	20	110	79 - 123	RPD <u>10.10</u> (Max-16)	
Tetrachloroethene	127-18-4	MS	26.10	3.70	20	112	72 - 124		
Tetrachloroethene	127-18-4	MSD	23.40	3.70	20	98.8	72 - 124	RPD <u>10.70</u> (Max-38)	
Toluene	108-88-3	MS	22.10	0	20	111	80 - 125		
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# **VOLATILE ORGANICS (cont.)**

#### RESULTS

				<u>Orig.</u>	<u>Spk</u>	Rec.			
Compound	CAS No		<u>Result</u> (ug/L)	<u>Result</u> (ug/L)	<u>Added</u> (ug/L)	<u>(%)</u>	Limits (%)	RPD Limit (%)	<u>Qualifiers</u>
Toluene	108-88-3	MSD	18.90	0	20	94.7	80 - 125	RPD <u>15.50</u> (Max-20)	
Total Xylenes	1330-20-7	MS	68.20	0	60	114	79 - 125		
Total Xylenes	1330-20-7	MSD	63.50	0	60	106	79 - 125	RPD <u>7.16</u> (Max-35)	
trans-1,2-Dichloroethene	156-60-5	MS	22.50	0	20	113	71 - 122		
trans-1,2-Dichloroethene	156-60-5	MSD	22.20	0	20	111	71 - 122	RPD <u>1.41</u> (Max-22)	
trans-1,3-Dichloropropene	10061-02-6	MS	18.30	0	20	91.7	78 - 126		
trans-1,3-Dichloropropene	10061-02-6	MSD	17.10	0	20	85.5	78 - 126	RPD <u>6.99</u> (Max-18)	
Trichloroethene	79-01-6	MS	23.70	1.30	20	112	77 - 124		
Trichloroethene	79-01-6	MSD	21.50	1.30	20	101	77 - 124	RPD <u>9.94</u> (Max-18)	
Trichlorofluoromethane	75-69-4	MS	18	0	20	89.8	38 - 123		
Trichlorofluoromethane	75-69-4	MSD	22.30	0	20	112	38 - 123	RPD <u>21.70</u> (Max-23)	
Vinyl Chloride	75-01-4	MS	22.80	0	20	114	27 - 138		
Vinyl Chloride	75-01-4	MSD	20.80	0	20	104	27 - 138	RPD <u>8.94</u> (Max-40)	

#### SURROGATES

			<u>Result</u>	Expected	Rec.		
<u>Compound</u>	CAS No		<u>(ug/L)</u>	<u>(ug/L)</u>	<u>(%)</u>	Limits (%)	<u>Qualifiers</u>
1,2-Dichloroethane-d4	17060-07-0	MS	30.10	30	100	62 - 133	
1,2-Dichloroethane-d4	17060-07-0	MSD	30.70	30	102	62 - 133	
4-Bromofluorobenzene	460-00-4	MS	32.30	30	108	79 - 114	
4-Bromofluorobenzene	460-00-4	MSD	33.70	30	112	79 - 114	
Dibromofluoromethane	1868-53-7	MS	28.90	30	96.2	78 - 116	
Dibromofluoromethane	1868-53-7	MSD	30.40	30	101	78 - 116	
Toluene-d8	2037-26-5	MS	29.20	30	97.4	76 - 127	
Toluene-d8	2037-26-5	MSD	27.20	30	90.8	76 - 127	

QC Ba	atch ———		
QC Batch	939059	Prep Method	N/A
<u>Date</u>	N/A	Analysis Method	SW846 8260C
Tech.			J

### Associated Samples

3283430001 3283430002

0.00001 0200.00002

 Method Blank
 3616160 (MB)
 Created on 01/26/2023 12:10
 For QC Batch 939059

#### RESULTS

Compound	CAS No		<u>Result</u> <u>Units</u>	<u>RDL</u>	Qualifiers
1,1,1-Trichloroethane	71-55-6	BLK	ND ug/L	1.0	ND
1,1,2,2-Tetrachloroethane	79-34-5	BLK	ND ug/L	1.0	ND
1,1,2-Trichloroethane	79-00-5	BLK	ND ug/L	1.0	ND
1,1-Dichloroethane	75-34-3	BLK	ND ug/L	1.0	ND
1,1-Dichloroethene	75-35-4	BLK	ND ug/L	1.0	ND
1,2,3-Trichlorobenzene	87-61-6	BLK	ND ug/L	2.0	ND
1,2,4-Trichlorobenzene	120-82-1	BLK	ND ug/L	2.0	ND
1,2-Dibromo-3-chloropropane	96-12-8	BLK	ND ug/L	7.0	ND



# **VOLATILE ORGANICS (cont.)**

#### RESULTS

Compound	CAS No		Result Units	RDL	Qualifiers
1,2-Dibromoethane	106-93-4	BLK	ND ug/L	1.0	ND
1,2-Dichlorobenzene	95-50-1	BLK	ND ug/L	1.0	ND
1,2-Dichloroethane	107-06-2	BLK	ND ug/L	1.0	ND
1,2-Dichloropropane	78-87-5	BLK	ND ug/L	1.0	ND
1,3-Dichlorobenzene	541-73-1	BLK	ND ug/L	1.0	ND
1,4-Dichlorobenzene	106-46-7	BLK	ND ug/L	1.0	ND
2-Butanone	78-93-3	BLK	ND ug/L	10.0	ND
2-Hexanone	591-78-6	BLK	ND ug/L	5.0	ND
4-Methyl-2-Pentanone(MIBK)	108-10-1	BLK	ND ug/L	5.0	ND
Acetone	67-64-1	BLK	ND ug/L	10.0	ND
Benzene	71-43-2	BLK	ND ug/L	1.0	ND
Bromochloromethane	74-97-5	BLK	ND ug/L	1.0	ND
Bromodichloromethane	75-27-4	BLK	ND ug/L	1.0	ND
Bromoform	75-25-2	BLK	ND ug/L	1.0	ND
Bromomethane	74-83-9	BLK	ND ug/L	1.0	ND
Carbon Disulfide	75-15-0	BLK	ND ug/L	1.0	ND
Carbon Tetrachloride	56-23-5	BLK	ND ug/L	1.0	ND
Chlorobenzene	108-90-7	BLK	ND ug/L	1.0	ND
Chlorodibromomethane	124-48-1	BLK	ND ug/L	1.0	ND
Chloroethane	75-00-3	BLK	ND ug/L	1.0	ND
Chloroform	67-66-3	BLK	ND ug/L	1.0	ND
Chloromethane	74-87-3	BLK	ND ug/L	1.0	ND
cis-1,2-Dichloroethene	156-59-2	BLK	ND ug/L	1.0	ND
cis-1,3-Dichloropropene	10061-01-5	BLK	ND ug/L	1.0	ND
Cyclohexane	110-82-7	BLK	ND ug/L	1.0	ND
Dichlorodifluoromethane	75-71-8	BLK	ND ug/L	1.0	ND
Ethylbenzene	100-41-4	BLK	ND ug/L	1.0	ND
Freon 113	76-13-1	BLK	ND ug/L	1.0	ND
Isopropylbenzene	98-82-8	BLK	ND ug/L	1.0	ND
Methyl acetate	79-20-9	BLK	ND ug/L	2.0	ND
Methyl cyclohexane	108-87-2	BLK	ND ug/L	1.0	ND
Methyl t-Butyl Ether	1634-04-4	BLK	ND ug/L	1.0	ND
Methylene Chloride	75-09-2	BLK	ND ug/L	1.0	ND
mp-Xylene	108383/106423	BLK	ND ug/L	2.0	ND
o-Xylene	95-47-6	BLK	ND ug/L	1.0	ND
Styrene	100-42-5	BLK	ND ug/L	1.0	ND
Tetrachloroethene	127-18-4	BLK	ND ug/L	1.0	ND
Toluene	108-88-3	BLK	ND ug/L	1.0	ND
Total Xylenes	1330-20-7	BLK	ND ug/L	3.0	ND
trans-1,2-Dichloroethene	156-60-5	BLK	ND ug/L	1.0	ND
trans-1,3-Dichloropropene	10061-02-6	BLK	ND ug/L	1.0	ND
Trichloroethene	79-01-6	BLK	ND ug/L	1.0	ND
Trichlorofluoromethane	75-69-4	BLK	ND ug/L	1.0	ND
Vinyl Chloride	75-01-4	BLK	ND ug/L	1.0	ND



# **VOLATILE ORGANICS (cont.)**

#### SURROGATES

Compound	CAS No		<u>Result</u> (ug/L)	Expected (ug/L)	<u>Rec.</u> (%)	Limits (%)	Qualifiers
1,2-Dichloroethane-d4	17060-07-0	BLK	27.20	30	90.8	62 - 133	
4-Bromofluorobenzene	460-00-4	BLK	33.20	30	111	79 - 114	
Dibromofluoromethane	1868-53-7	BLK	27	30	89.9	78 - 116	
Toluene-d8	2037-26-5	BLK	30.20	30	101	76 - 127	
Lab Control Standard3616161(LCS)			CS)	Created on 01/26/2023 12:10			For QC Batch 939059

#### RESULTS

<u>Compound</u>	<u>CAS No</u>		<u>Result</u> (ug/L)	<u>Orig.</u> <u>Result</u> (ug/L)	<u>Spk</u> <u>Added</u> (ug/L)	<u>Rec.</u> (%)	Limits (%)	RPD Limit (%)	Qualifiers
1,1,1-Trichloroethane	71-55-6	LCS	19.90	<u>(ug/L)</u>	20	99.6	66 - 130	<del></del>	
1,1,2,2-Tetrachloroethane	79-34-5	LCS	20.70		20	104	74 - 135		
1,1,2-Trichloroethane	79-00-5	LCS	20		20	100	82 - 126		
1,1-Dichloroethane	75-34-3	LCS	19.70		20	98.6	78 - 124		
1,1-Dichloroethene	75-35-4	LCS	20.40		20	102	63 - 128		
1,2,3-Trichlorobenzene	87-61-6	LCS	20.10		20	101	61 - 126		
1,2,4-Trichlorobenzene	120-82-1	LCS	20.70		20	104	67 - 123		
1,2-Dibromo-3-chloropropane	96-12-8	LCS	22.80		20	114	59 - 133		
1,2-Dibromoethane	106-93-4	LCS	19.70		20	98.5	80 - 124		
1,2-Dichlorobenzene	95-50-1	LCS	19		20	94.9	82 - 118		
1,2-Dichloroethane	107-06-2	LCS	20.60		20	103	70 - 133		
1,2-Dichloropropane	78-87-5	LCS	20.30		20	102	81 - 127		
1,3-Dichlorobenzene	541-73-1	LCS	18.90		20	94.4	81 - 118		
1,4-Dichlorobenzene	106-46-7	LCS	19.40		20	97	81 - 116		
2-Butanone	78-93-3	LCS	95.90		100	95.9	50 - 152		
2-Hexanone	591-78-6	LCS	101		100	101	65 - 154		
4-Methyl-2-Pentanone(MIBK)	108-10-1	LCS	101		100	101	71 - 146		
Acetone	67-64-1	LCS	134		100	134	40 - 151		
Benzene	71-43-2	LCS	20.60		20	103	80 - 124		
Bromochloromethane	74-97-5	LCS	20.50		20	103	73 - 117		
Bromodichloromethane	75-27-4	LCS	20.40		20	102	79 - 126		
Bromoform	75-25-2	LCS	20.40		20	102	70 - 123		
Bromomethane	74-83-9	LCS	20.90		20	105	45 - 148		
Carbon Disulfide	75-15-0	LCS	22.40		20	112	57 - 131		
Carbon Tetrachloride	56-23-5	LCS	20.40		20	102	62 - 132		
Chlorobenzene	108-90-7	LCS	18.70		20	93.7	85 - 117		
Chlorodibromomethane	124-48-1	LCS	19.50		20	97.6	77 - 122		
Chloroethane	75-00-3	LCS	23.10		20	116	51 - 142		
Chloroform	67-66-3	LCS	20.30		20	102	78 - 122		
Chloromethane	74-87-3	LCS	21.70		20	109	38 - 156		
cis-1,2-Dichloroethene	156-59-2	LCS	21		20	105	78 - 125		
cis-1,3-Dichloropropene	10061-01-5	LCS	17.80		20	89	81 - 121		
Cyclohexane	110-82-7	LCS	21.30		20	107	66 - 130		
Dichlorodifluoromethane	75-71-8	LCS	22.70		20	113	17 - 166		
Ethylbenzene	100-41-4	LCS	19.20		20	95.8	80 - 124		
Freon 113	76-13-1	LCS	21.30		20	107	50 - 130		



# VOLATILE ORGANICS (cont.)

#### RESULTS

				<u>Orig.</u>	<u>Spk</u>	Rec.			
<u>Compound</u>	CAS No		<u>Result</u> (ug/L)	<u>Result</u> (ug/L)	<u>Added</u> (ug/L)	<u>(%)</u>	Limits (%)	RPD Limit (%)	<u>Qualifiers</u>
lsopropylbenzene	98-82-8	LCS	20.40		20	102	73 - 129		
Methyl acetate	79-20-9	LCS	20.60		20	103	70 - 130		
Methyl cyclohexane	108-87-2	LCS	19.90		20	99.5	70 - 130		
Methyl t-Butyl Ether	1634-04-4	LCS	21.30		20	107	69 - 115		
Methylene Chloride	75-09-2	LCS	20.50		20	102	76 - 121		
mp-Xylene	108383/106423	LCS	39.10		40	97.7	79 - 125		
o-Xylene	95-47-6	LCS	18.90		20	94.6	79 - 124		
Styrene	100-42-5	LCS	18.50		20	92.7	79 - 123		
Tetrachloroethene	127-18-4	LCS	18		20	89.8	72 - 124		
Toluene	108-88-3	LCS	20		20	100	80 - 125		
Total Xylenes	1330-20-7	LCS	58		60	96.7	79 - 125		
trans-1,2-Dichloroethene	156-60-5	LCS	20.30		20	102	71 - 122		
trans-1,3-Dichloropropene	10061-02-6	LCS	17.60		20	88.1	78 - 126		
Trichloroethene	79-01-6	LCS	19.10		20	95.3	77 - 124		
Trichlorofluoromethane	75-69-4	LCS	21.20		20	106	38 - 123		
Vinyl Chloride	75-01-4	LCS	21.30		20	106	27 - 138		

#### SURROGATES

Compound	CAS No		<u>Result</u> (ug/L)	Expected (ug/L)	<u>Rec.</u> (%)	Limits (%)	Qu	ualifiers
1,2-Dichloroethane-d4	17060-07-0	LCS	27.80	30	92.8	62 - 133		
4-Bromofluorobenzene	460-00-4	LCS	32.20	30	107	79 - 114		
Dibromofluoromethane	1868-53-7	LCS	27.70	30	92.3	78 - 116		
Toluene-d8	2037-26-5	LCS	28.40	30	94.6	76 - 127		

# WET CHEMISTRY

QC Batch —			$\overline{}$	Associated Samp	bles	
<u>QC Batch</u> 935213 <u>Date</u> N/A <u>Tech.</u>	Prep Method Analysis Method	N/A SW846 7196A	32	82926001 32829	26002 3282926003	
Method Blank	3610948 (1	MB)	Created on	01/13/2023 10:03	For QC Batch	935213
RESULTS						
<u>Compound</u>	CAS No		Result Units	<u>RDL</u>		Qualifiers
Hexavalent Chromium	CR6	BLK	ND mg/L	0.010		ND
Matrix Spike	3610950 (1	MS)	3282926001		For QC Batch	935213
	****NOTE - The Origi Matrix Spike percent				or the purpose of calculating	
Matrix Spike Duplicate		MSD)	3282926001		For QC Batch	<u>935213</u>
RESULTS		<u>Orig.</u> sult <u>Result</u>	<u>Spk</u> Added Rec	_		
Compound CAS Hexavalent Chromium CR6	<u></u>	<u>g/L) (mg/L)</u> 50 0.0026	(mg/L) (%) 0.50 99.5		<u>RPD Limit (%)</u>	Qualifier
Hexavalent Chromium CR6		.51 0.0026	0.50 101	85 - 115	RPD <u>1.53</u> (Max-20)	
Method Blank	3610952 (1	MB)	Created on	01/13/2023 10:03	For QC Batch	<u>935213</u>
RESULTS						
Compound	CAS No		Result Units	RDL		Qualifiers
Hexavalent Chromium	CR6	BLK	ND mg/L	0.010		ND
QC Batch QC Batch 935467 Date N/A Tech.	<u>Prep Method</u> <u>Analysis Method</u>	N/A SW846 7196A		Associated Samp 83083001 32830		083004
Method Blank	3611336 (N	MB)		01/14/2023 09:32	For QC Batch	

RESULTS

Compound	CAS No		<u>Result</u> <u>Units</u>	RDL	<u>Qualifiers</u>
Hexavalent Chromium	CR6	BLK	ND mg/L	0.010	ND





# WET CHEMISTRY (cont.)

Matrix Spike		3611338	3 (MS)		32830830	01				For QC Batch	935467
		****NOTE - The Matrix Spike per								f calculating	
Matrix Spike Duplicate		3611339	9 (MSD)		32830830	01				For QC Batch	935467
RESULTS				<u>Orig.</u>	<u>Spk</u>						
<u>Compound</u>	CAS No		Result	Result	Added	<u>Rec.</u> (%)	Limits (%)	RPD	) Limit (%	6)	Qualifiers
Hexavalent Chromium	CR6	MS	(mg/L) 0.52	<u>(mg/L)</u> 0	<u>(mg/L)</u> 0.50	105	85 - 115	<u></u>	/ En lis ( /	<u>0)</u>	Quantore
Hexavalent Chromium	CR6	MSD	0.52	0	0.50	104	85 - 115	RPD	0.51 (	(Max-20)	
										· · ·	
Method Blank		3611340	) (MB)		Creat	ed on <u>01</u>	1/14/2023 09:32			For QC Batch	935467
RESULTS											
Compound		CAS No			<u>Result</u> Uni	te	RDL				Qualifiers
Hexavalent Chromium		CR6	BL	К	ND mg/l		0.010				ND
Date N/4 Tech.	A	<u>Analysis Meth</u>	<u>10d</u> SW84	6 7196A		3283	3219003				
Method Blank		3611981	1 (MB)		Creat	ed on <u>01</u>	1/17/2023 09:59			For QC Batch	936307
RESULTS											
Compound		CAS No			<u>Result</u> Uni	<u>ts</u>	<u>RDL</u>				<u>Qualifiers</u>
Hexavalent Chromium		CR6	BL	K	ND mg/l	L	0.010				ND
Matrix Spike		3611983	3 (MS)		32832190	04			[	For QC Batch	936307
		****NOTE - The Matrix Spike per								f calculating	
Matrix Spike Duplicate			4 (MSD)		32832190					For QC Batch	936307
RESULTS											
			Result	<u>Orig.</u> <u>Result</u>	<u>Spk</u> Added	Rec.					
				i looui.							
<u>Compound</u>	<u>CAS No</u>		(mg/L)	(mg/L)	<u>(mg/L)</u>	<u>(%)</u>	Limits (%)	RPD	) Limit (%	<u>%)</u>	<u>Qualifiers</u>
<u>Compound</u> Hexavalent Chromium	CR6	MS	(mg/L) 0.51	<u>(mg/L)</u> 0.0013	<u>(mg/L)</u> 0.50	102	<u>Limits (%)</u> 85 - 115				<u>Qualifiers</u>
			<u>(mg/L)</u>	<u>(mg/L)</u>	<u>(mg/L)</u>			<u>RPD</u> RPD		<u>%)</u> (Max-20)	<u>Qualifiers</u>



# WET CHEMISTRY (cont.)

Method Blank		3611985	(MB)		Cre	eated on <u>0</u>	01/17/2023 09:59	For QC Batch	936307
RESULTS									
<u>Compound</u>		CAS No			<u>Result</u>		<u>RDL</u>		<u>Qualifiers</u>
Hexavalent Chromium		CR6	BLK		ND n	ng/L	0.010		ND
									l
OC Batak							to a sisted Com		
QC Batch -					$\overline{}$		Associated Sam	ples	
QC Batch 936511		Prep Method	N/A			328	33430001		
<u>Date</u> N/A Tech.		Analysis Metho	<u>od</u> SW846 7	7196A					l
Method Blank		3612524	(MB)		Cre	eated on <u>0</u>	01/18/2023 10:31	For QC Batch	936511
RESULTS									
					<b>D</b>				
<u>Compound</u> Hexavalent Chromium		CAS No CR6	BLK	/	<u>Result</u> <u>l</u> ND n		<u>RDL</u> 0.010		Qualifiers ND
		UKO	DER	•		ng/∟	0.010		טא
Matrix Spike		2612526	(MC)		228243			Ear OC Batch	026544
		3612526	(MS)		328343			For QC Batch	930511
		****NOTE - The Or Matrix Spike perce						for the purpose of calculating	
Matrix Spika Duplicato				35. This is					000544
Matrix Spike Duplicate		3612527	(14150)		328343	0001		For QC Batch	936511
RESULTS									
				<u>Orig.</u>	<u>Spk</u>	Dee			
Compound	CAS No		Result	Result	Added	- (%)	Limits (%)	RPD Limit (%)	Qualifiers
	CR6	MS	(mg/L) 0.48	<u>(mg/L)</u> 0	<u>(mg/L)</u> 0.50	96	85 - 115		ND
Hexavalent Chromium (	CR6	MSD	0.49	0	0.50	97.6	85 - 115	RPD <u>1.71</u> (Max-20)	ND
Method Blank		3612528	(MB)		Cre	eated on <u>0</u>	01/18/2023 10:31	For QC Batch	<u>936511</u>
				-					
RESULTS									
Compound		<u>CAS No</u>			<u>Result</u>		<u>RDL</u>		<u>Qualifiers</u>
Hexavalent Chromium		CR6	BLK		ND n	ng/L	0.010		ND



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

ab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	Ву	Analysis Method	Anly Bate
82926001	MW-03	SW846 3015A	935508	01/15/2023 21:28	ANN	SW846 6020A	936548
		SW846 7470A	936952	01/19/2023 08:21	WDA	SW846 7470A	937213
		N/A	N/A	N/A		SW846 8260C	936394
		N/A	N/A	N/A		SW846 8260C	937135
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		SW846 7196A	935213
82926002	MW-02	SW846 3015A	935508	01/15/2023 21:28	ANN	SW846 6020A	936548
		SW846 7470A	936952	01/19/2023 08:21	WDA	SW846 7470A	937213
		N/A	N/A	N/A		SW846 8260C	936394
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		SW846 7196A	935213
82926003	MW-04	SW846 3015A	935508	01/15/2023 21:28	ANN	SW846 6020A	936548
02920003	10100-04	SW846 7470A	936952	01/19/2023 08:21	WDA	SW846 7470A	937213
		N/A	930932 N/A	N/A	WDA	SW846 8260C	936394
		N/A N/A	N/A N/A	N/A			930394
						Calculation	025012
		N/A	N/A	N/A		SW846 7196A	935213
82926004	TB-01	N/A	N/A	N/A		SW846 8260C	936394
83083001	MW-05	SW846 3015A	935508	01/15/2023 21:28	ANN	SW846 6020A	936548
		SW846 7470A	936952	01/19/2023 08:21	WDA	SW846 7470A	937213
		N/A	N/A	N/A		SW846 8260C	936394
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		SW846 7196A	935467
283083002	MW-05D	SW846 3015A	935508	01/15/2023 21:28	ANN	SW846 6020A	936548
200000002		SW846 7470A	936952	01/19/2023 08:21	WDA	SW846 7470A	937213
		N/A	N/A	N/A		SW846 8260C	936394
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		SW846 7196A	935467
283083003	MW-06	SW846 3015A	935508	01/15/2023 21:28	ANN	SW846 6020A	936548
		SW846 7470A	936952	01/19/2023 08:21	WDA	SW846 7470A	937213
		N/A	N/A	N/A		SW846 8260C	936394
		N/A N/A	N/A N/A	N/A N/A		Calculation	005407
						SW846 7196A	935467
283083004	MW-12	SW846 3015A	935508	01/15/2023 21:28	ANN	SW846 6020A	936548
		SW846 7470A	936952	01/19/2023 08:21	WDA	SW846 7470A	937213
		N/A	N/A	N/A		SW846 8260C	936394
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		SW846 7196A	935467
283083005	TB-02	N/A	N/A	N/A		SW846 8260C	936394
283219001	MW-07	SW846 3015A	936604	01/19/2023 22:52	ANN	SW846 6020A	937412
200210001		SW846 7470A	936952	01/19/2023 08:21	WDA	SW846 7470A	937213
		N/A	N/A	N/A		SW846 8260C	937662
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		SW846 7196A	936307
283219002	MW-11	SW846 3015A	936604	01/19/2023 22:52	ANN	SW846 6020A	937412
203219002	10100-11	SW846 7470A	936952	01/19/2023 08:21	WDA	SW846 7470A	937213
		N/A	N/A	N/A	WDA	SW846 8260C	937662
		N/A	N/A	N/A		Calculation	307002
		N/A	N/A	N/A		SW846 7196A	936307
					A N I N I		
283219003	MW-10	SW846 3015A	936604	01/19/2023 22:52	ANN	SW846 6020A	937412
		SW846 7470A	936952	01/19/2023 08:21	WDA	SW846 7470A	937213
		N/A	N/A	N/A		SW846 8260C	937662
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		SW846 7196A	936307
283219004	MW-09	SW846 3015A	936604	01/19/2023 22:52	ANN	SW846 6020A	937412
		SW846 7470A	936952	01/19/2023 08:21	WDA	SW846 7470A	937213
		N/A	N/A	N/A		SW846 8260C	937662
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		SW846 7196A	936307

#### Project 2022FMA SCI Pittsburgh Phase I

Workorder 3282926



Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	Ву	Analysis Method	Anly Batch
3283219005	MW-01	SW846 3015A	936604	01/19/2023 22:52	ANN	SW846 6020A	937412
		SW846 7470A	936952	01/19/2023 08:21	WDA	SW846 7470A	937213
		N/A	N/A	N/A		SW846 8260C	937662
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		SW846 7196A	936307
3283219006	TB-03	N/A	N/A	N/A		SW846 8260C	937662
3283430001	MW-08	SW846 3015A	936604	01/19/2023 22:52	ANN	SW846 6020A	937412
		SW846 7470A	936952	01/19/2023 08:21	WDA	SW846 7470A	937213
		N/A	N/A	N/A		SW846 8260C	939059
		N/A	N/A	N/A		Calculation	
		N/A	N/A	N/A		SW846 7196A	936511
3283430002	TB-04	N/A	N/A	N/A		SW846 8260C	939059

301 Fulling Mill Rd, Suite A Middletown, PA 17057       RHEA ENGINCEERS       RHEA ENGINCEERS       RHEA ENGINCEERS       S33 ROUSER RD       S33 ROUSER RD       S33 ROUSER RD       S7E 301       100W TUR, PA 15105       ACH WICKS       ACH WICKS       Rush-Subject to ALS approval and surcharges.       Rush-Subject to ALS approval and surcharges.       Momal-Standard TAT is 10-12 business days.       Rush-Subject to ALS approval and surcharges.       Momal-Standard TAT is 10-12 business days.       Rush-Subject to ALS approval and surcharges.       Momal-Standard TAT is 10-12 business days.       Mu - O'S     1/12/23       Mu - O'S     1/12/23	CHAIN OF CUSTODY CHE 3282926 REQUEST FOR ANALY CARA 2282926 ALL SHADED AREAS MUST BE COMPLIE COMPLIE COMPLETER COMPLETER COMPLETER INSTRUCTIONS OF THE EXP	eiving	er 50 125 500 Receipting com	Temp By: WO Temp (PC) Triane to NA Deviations? NO YES	 NA Hexavalent Chromium Filtered? Y N NA Receipt Info Completed Rv. Non	YSIS / METHOD REDIFESTED Cooler Custody Seal Intact Y	Sample Custody Seal Intact Received on Lee		Correct Containers Provided	Adequate Sample Volumes	کر 1000000000000000000000000000000000000	Type (		IL S S S S S S S S S S S S S S S S S S S	Time Time Time Time Time Time Time Time	1400 6 w 3 2 1 we contained of rield Results Below. PWSID	1225 GW 3 2 1	3 1540 6 W 3 ス 1 RERaw Participation Electry Point ReRaw Participation Electry Point	NA MAN		No Samelar		Internal Use: If less than 48 hours - no		Afterived By / Campany Name		4 COCX	6 1 Feduies Lab	
	301 Fulling Mill Rd, Suite A Middletown, PA 17057 P. 717-944-5541	ENGINEERS Cont	S da					PHASE 11 / 2.390					əlqm		bd Time hh:mm	1400	2211 22		1/12/23 NA				Circle Sample Collector: ALS Tech / Client Comments:	Ö	Relinquished By / Company Name	MM 1 LN	4	redex	

# APPENDIX D

# Waste Disposal Documents

(Provided at a Later Date)

# **APPENDIX E**

# **Environmental Professional Resumes**

# ZACHARY D. WICKS, PWS

PROJECT MANAGER/SCIENTIST III



FIRM

Rhea Engineers & Consultants, Inc. Moon Township, PA

#### **EDUCATION**

Shippensburg University BS, Geo-environmental Studies,

### **REGISTRATIONS / CERTIFICATIONS**

GIS Professional Certificate #91244 Professional Wetland Scientist (PWS)

#### **TRAINING**

Wetland Delineation 40-Hour Training OSHA HAZWOPER 40-Hour Training

#### **YEARS OF EXPERIENCE**

With Current Firm: 13 With Other Firms: 1

# PROFILE

Since joining Rhea in 2008, Mr. Wicks' project experience has included Environmental Site Assessments (ESAs), wetland and stream delineations and investigations, landfill inspections, gas monitoring, asbestos and lead inspections, soil delineations and low-flow groundwater sampling, technical report writing, and preparing maps for clients using geographic information systems (ArcGIS) technology.

# EXPERIENCE

# Blue Comet Diner Environmental Investigation, Hazleton, Pennsylvania

The former Blue Comet Diner, located in Hazleton, PA was to be demolished in preparation for the construction of a new parking lot for the Hazleton Public Transit (HPT). Prior to demolition, a Phase I ESA was required, as well as an asbestos-containing material (ACM) and lead-based paint (LBP) survey of the interior and exterior of the former diner, as well as a Historic Code Compliance evaluation. Mr. Wicks, Project Manager, worked closely with the client to develop the initial cost estimate and scope of work for the project. Mr. Wicks ensured that all project work was carried out in accordance with the approved scope of work and budget, as well as the applicable state and federal standards and regulations. Following field work, Mr. Wicks oversaw and reviewed the findings reports, which documented all Recognized Environmental Conditions (RECs) and areas of concern identified at the property. Rhea's findings, conclusions, and recommendations were used by HPT to determine the appropriate course of action for demolition and construction activities and worker safety.

# Homestead-Duquesne Road Improvement Project Environmental Site Assessment, West Mifflin, Pennsylvania

Mr. Wicks, Project Manager and PWS, managed and participated in an environmental investigation on a 0.80mile length of Homestead-Duquesne Road in West Mifflin, PA. The purpose of this investigation was to identify and evaluate environmental and cultural concerns at the subject property prior to the proposed road improvement activities. Resources evaluated included wetlands and streams, threatened and endangered species, hazardous waste impacts, as well as cultural resources and archaeological concerns. Results from the investigation were then entered into PennDOT's online Categorical Exclusion Expert System (CEES) for review and approval during the preliminary planning phase of the project. Mr. Wicks also attended several on-site scoping meetings and monthly virtual meetings with PennDOT, PADEP, the Allegheny County Conservation District to provide routine updates on the status of the project.



# Wetland Investigations in Support of Dam Rehabilitation Projects, Various Sites, Western Pennsylvania

Mr. Wicks, PWS, performed wetland investigations at five dams throughout Western Pennsylvania with the intent of identifying and evaluating potential wetland resources adjacent to, or within, the proposed construction footprint of each site prior to site activities. The dams visited included Kahle Lake Dam, Hemlock Lake Dam, High Point Lake Dam, Virgin Run Lake Dam, and Cloe Lake Dam. While most of these dams were in good overall condition with no physical deficiencies, the majority fell short of the required spillway capacity and were beyond their 50-year design life. Typical rehabilitation activities at each dam included partial spillway reconstruction, flattening of the embankment, installing seepage collection drainage systems, increasing drawdown capacity, and improving the outlet works. Mr. Wicks' investigation results were evaluated and considered during the preliminary planning phase to help minimize and/or avoid impacts to delineated wetland resources at each site.

# Pittsburgh International Airport Terminal Modernization Program Phase I Environmental Site Assessment, Moon Township, Pennsylvania

Mr. Wicks, PWS and Project Manager, managed a large-scale Phase I ESA of the Area of Potential Effects for the Pittsburgh International Airport Terminal Modernization Program. The Phase I ESA was conducted in accordance with USEPA All Appropriate Inquires and ASTM E1527-13 and included an environmental records review (including record review at the appropriate PADEP regional office), site reconnaissance, and interviews. Mr. Wicks oversaw and managed all aspects of the project including the initial development of the project scope and budget, coordination with the client and regulatory agencies, site reconnaissance, background research, and development of the Phase I ESA report. The report included documentation of records reviewed, observations made during the site reconnaissance, results of the interviews conducted, documentation and/or description of RECs identified, identification of potential data gaps; and conclusions and recommendations.

# Phase II Environmental Site Assessment, State Correctional Institution, Pittsburgh, Pennsylvania

Mr. Wicks was involved in the completion of a Phase II ESA at the former SCI Pittsburgh facility in support of proposed redevelopment activities. The Phase II ESA was completed in accordance with current ASTM regulations and standards and included geophysical and subsurface investigations. Throughout the course of the project, Mr. Wicks acted as field team leader, overseeing the installation and sampling of temporary groundwater monitoring wells and the collection and environmental characterization of soil from borings throughout the project site. Groundwater and soil samples collected were submitted to a laboratory and analyzed for constituents of concern. The results and conclusions summarized in Rhea's report were used in the determination of the future potential uses of the property.

# Asbestos-Containing Materials Assessment, E Gates Terminal, Pittsburgh International Airport, Pittsburgh, Pennsylvania

Mr. Wicks, Project Manager, and registered asbestos building inspector in PA, both managed and participated in an ACM Assessment of the E Gates Terminal Building at the Pittsburgh International Airport (PIT) in support of the Terminal Modernization Program (TMP). Work on this project was conducted in accordance with the United States Environmental Protection Agency (USEPA) National Emissions Standard for Hazardous Air Pollutants (NESHAP) standards. Mr. Wicks collected roughly 50 bulk samples from various homogeneous areas throughout the terminal building and submitted them to an accredited laboratory for analysis. Following receipt of results, Mr. Wicks oversaw the completion of a Findings Report, which documented the precise locations, homogeneous areas, and materials that were sampled along with their associated asbestos content. Areas of concern and recommendations for further action were then discussed in detail with the client.



#### MICHAEL R STOEHR, PG

Assistant Project Manager/ Geologist II



FIRM Rhea Engineers & Consultants, Inc. Moon Township, PA

#### **EDUCATION**

Indiana University of Pennsylvania B.S., Geology

Shippensburg University M.S., Geo-Environmental Studies

#### **REGISTRATIONS / CERTIFICATIONS**

Professional Geologist PA License Number: PG005518

Asbestos Building Inspector – PA – 056261; VA – 3303004425; WV – AI010797

Radon Measurement Provider – 108998RT

PADEP Certified Radon Testing Individual – 3332

#### **TRAINING**

OSHA 40-Hour HAZWOPER OSHA 40-Hour HAZWOPER Refresher OSHA 30-Hour Construction Safety OSHA 8-Hour HAZWOPER Supervisor First Aid, CPR, and AED Bloodborne Pathogens

#### **YEARS OF EXPERIENCE**

With Current Firm: 6 With Other Firms: 0

### PROFILE

Mr. Stoehr has 6 years of experience. He is involved in many types of environmental projects, which include Phase I and Phase II Environmental Site Assessments, groundwater monitoring, asbestos surveys, geophysical surveys, infiltration testing, and hazardous materials reporting, among others. Mr. Stoehr's responsibilities include project management; field work preparation, coordination, and execution; data preparation and analysis; mapping; and technical report writing.

### **EXPERIENCE**

Pittsburgh International Airport Terminal **Modernization Program Phase I Environmental Site** Assessment, Moon Township, Pennsylvania. Mr. Stoehr was involved with the Phase I ESA of the Area of Potential Effects for the Pittsburgh International Airport Terminal Modernization Program. The Phase I ESA was conducted in accordance with USEPA All Appropriate Inquires and ASTM E1527-13, and included an environmental records review (including record review at the appropriate PADEP regional office), site reconnaissance, and interviews. Mr. Stoehr's primary role in the project was to perform the site reconnaissance and collaborate on the Phase I ESA report, documentation of records reviewed: which included: observations made during the site reconnaissance; results of the interviews conducted; documentation and/or description of Environmental Conditions Recognized (RECs): anv identification of potential data gaps; and conclusions and recommendations.

State Correctional Institution – Pittsburgh, Phase II Environmental Site Assessment, Pittsburgh, Pennsylvania. Mr. Stoehr was involved in the completion of the Phase II ESA at the SCI – Pittsburgh facility in support of proposed redevelopment activities. The Phase II ESA was completed in accordance with ASTM E1903-11 and included geophysical and subsurface investigations. Throughout the course of the project, Mr. Stoehr has collaborated on the proposal, led the geophysical and subsurface investigations, and served as the primary report writer.

Drilling Inspector, Pittsburgh Water and Sewer Authority Subsurface Utility Excavation, Maytide Street, Pittsburgh, Pennsylvania. Mr. Stoehr served as the drilling inspector during the excavation of sanitary, water, and gas utility lines from approximately 13 test holes in support of drainage improvements for the Pittsburgh Water and Sewer Authority. Mr. Stoehr's responsibilities included the oversight



#### **EXPERIENCE (CONTINUED)**

of excavation activities, the completion of subsurface utility excavation logs, and acting as the liaison between the driller and the client. Mr. Stoehr ensured that the test holes were excavated and backfilled appropriately, all necessary information was obtained, and that any issues regarding the field work were relayed to the client.

Annual Groundwater Monitoring and Reporting, Naval Support Activity Mechanicsburg, Mechanicsburg, Pennsylvania. Mr. Stoehr's responsibilities included the coordination and management of the groundwater sampling field work, which included the collection, handling, and organization of groundwater samples from approximately 50 monitoring wells. In addition to managing the field work, Mr. Stoehr was also responsible for the data processing, data analysis and writing the Annual Monitoring Report.

Allegheny County Airport Authority Phase I Environmental Site Assessment, Moon Township, Pennsylvania. Mr. Stoehr was involved with the Phase I ESA at ACAA Site 1, located north of the Pittsburgh International Airport. The Phase I ESA was conducted in accordance with USEPA All Appropriate Inquires and ASTM E1527-13, and included an environmental records review (including record review at the appropriate PADEP regional office), site reconnaissance, and interviews. Mr. Stoehr's primary role in these projects was to perform the site reconnaissance and collaborate on the Phase I ESA reports, which included: documentation of records reviewed; observations made during the site reconnaissance; results of the interviews conducted; documentation and/or description of any Recognized Environmental Conditions (RECs); identification of potential data gaps; and conclusions and recommendations.

**Reporting Year 2019 Emergency Planning and Community Right-to-Know Act Section 312/313 at Joint Base Anacostia-Bolling, Washington DC.** Mr. Stoehr's responsibilities included EPCRA Section 312 field work coordination and management, which included a hazardous materials inventory of approximately 60 buildings. Mr. Stoehr also served as the technical lead and managed other staff members during the preparation of the Tier II Report, which included the submission of a Tier II form to state regulators. For the Section 313 portion of the project, Mr. Stoehr was responsible for managing other staff members during the preparation of the TRI Report, which included the submission of a Form R to federal and state regulators.

**Compressed Natural Gas (CNG) P3 Phase II Environmental Site Assessments, Various Pennsylvania Sites, Bureau of Public Transportation.** Mr. Stoehr was involved in the completion of multiple Phase II ESAs, located at various transit agencies in western and central PA, in support of the PennDOT BPT's compressed natural gas fueling station initiative. The Phase II ESAs were conducted in accordance with ASTM E1903-11 and included a geophysical and subsurface investigation. Throughout the course of the projects, Mr. Stoehr has collaborated on the proposal, served as a member of the field team for the geophysical and subsurface investigations, and acted as the primary report writer.

Radon Technical Services at Naval Support Activity Bethesda, Bethesda, Maryland, Naval Surface Warfare Center Carderock, West Bethesda, Maryland, Naval Air Station Patuxent River, Lexington Park, Maryland. Mr. Stoehr was part of the field team that was tasked with deploying long-term Radon test kits throughout NSA Bethesda, NSWC Carderock, and NAS Patuxent River. As a Certified Radon Measurement Provider, Mr. Stoehr was able to place the test kits in appropriate locations so that they would not be disturbed by base personnel or environmental factors that could affect the device. Mr. Stoehr was also involved in the record keeping and quality control measures during the week long field event.



### **EXPERIENCE (CONTINUED)**

**On-Call Environmental Services – Evaluation of Allegheny County Airport Authority Fuel Farm Monitoring Wells, Pittsburgh, Pennsylvania.** Mr. Stoehr was involved in all phases of the redevelopment of the monitoring wells surrounding the Pittsburgh International Airport Fuel Farm. Over the course of this evaluation, the wells were measured, cleaned, developed, and repaired on an as needed basis. Over the course of the project, Mr. Stoehr gained experience using sampling equipment including pumps and water level meters.

**Geophysical Investigations, Various Pennsylvania Sites.** Mr. Stoehr has completed multiple geophysical investigations in support of various projects across Pennsylvania. As part of these investigations, Mr. Stoehr has led the field work and operated a Geonics EM61 high sensitivity, high resolution metal detector, as well as a MALA Geoscience X3M radar system. He was also responsible for the subsequent processing and presentation of the data and preparing the final report.

Asbestos-Containing Material Assessment, Pittsburgh International Airport E Gates Terminal, Moon Township, Pennsylvania. The E Gates Terminal at the Pittsburgh International Airport is preparing to undergo demolition activities in as part of the Terminal Modernization Program. In support of these activities, Mr. Stoehr assisted in an asbestos-containing material (ACM) assessment of the interior and exterior of the E Gates Terminal. The ACM assessment included a surface-by-surface investigation, which resulted in the collection of thermal system insulation, surfacing material, and miscellaneous materials samples. Mr. Stoehr was responsible for writing the proposal, conducting the field work, and preparing the report.



#### ERIK T HARTLE GEOLOGIC SPECIALIST I



FIRM Rhea Engineers & Consultants, Inc. Moon Township, PA

#### **EDUCATION**

Clarion University of Pennsylvania B.S., Geology

#### **REGISTRATIONS / CERTIFICATIONS**

Registered Pennsylvania Asbestos Inspector – 063208

#### **TRAINING**

StormwaterOne Pennsylvania NPDES General Permit for Discharge of Stormwater Associated with Construction Activities, 2020

OSHA 40-Hour HAZWOPER Training (29CFR 1910.120), 2021

StormwaterOne Qualified Preparer of Storm Water Pollution Prevention Plans, 2022

StormwaterOne Qualified Compliance Inspector of Stormwater 2022

PEC Safety Safe Land, 2016 Adult First Aid/CPR/AED, 2022

#### **YEARS OF EXPERIENCE**

With Current Firm: 1 With Other Firms: 7

#### PROFILE

Mr. Hartle is a Geologic Specialist I at Rhea Engineers and Consultants, Inc. (Rhea). His project experience includes Underground Storage Tank (UST) Inspections, Erosion and Sediment Control Inspections, long-term monitoring (LTM) investigations in groundwater, wetland investigations/ delineations, creation and modification of maps using ArcGIS, and technical report writing/review. Mr. Hartle has been with Rhea since September 2021.

#### EXPERIENCE

Long-Term Monitoring of Russel Road Landfill, MCB-2 Landfill, and Site 4 Landfill, Marine Corps Base Quantico, VA. The long-term monitoring (LTM) project involves routine groundwater monitoring at three closed landfill sites at Marine Corps Base (MCB) Quantico, VA. In addition to LTM, operations and maintenance (O&M) activities conducted at these sites include methane monitoring at over 30 gas monitoring/compliance wells to monitor off-site gas migration; regular landfill inspections of the cap, vegetative cover, drainage systems, surface water management controls, leachate collection features and outlet structures: leachate sump inspections; annual benchmark surveys; and general grounds maintenance Mr. Hartle has been tasked to assist with each aspect of the LTM and O&M activities for these sites. Mr. Hartle conducts groundwater sampling, regular landfill inspections, methane monitoring, well inspections, and technical report writing for each of the routine events that are conducted at each landfill.

Pennsylvania Riverine and Wetland Condition Level 2 **Rapid Assessment Protocol, Various Sites, Western PA.** Rhea has been tasked to complete Riverine and Wetland Condition Level 2 Rapid Assessment Protocols (L2RAP) for various dam rehabilitation projects in Western PA. The Dam Safety and Encroachments Act requires that the obtaining of a permit from the Department of Environmental Protection (DEP) to construct, operate, maintain, enlarge, or abandon a dam, water obstruction or encroachment. The primary objective of the L2RAP is to assess existing riverine and wetland resource conditions to be potentially impacted during construction activities using information gathered in the field and compiled in wetland investigation reports. By categorizing each riverine and wetland area as the Assessment Area (AA), Mr. Hartle was able to distinguish the proper Zone of Influence (ZOI) for each region surrounding the AA. Once completed, Mr. Hartle imports the information to ArcMap to illustrate the ZOI for each AA by assessing the surrounding areas by creating a buffer zone around the AA. Once completed, the map and L2RAP assessment were combined for incorporation into the site permitting application.



### **EXPERIENCE (CONTINUED)**

Wetland Investigation, Cloe Lake Dam Rehabilitation Project, Jefferson County, PA. Mr. Hartle assisted Mr. Zachary Wicks, Professional Wetland Scientist (PWS), with the wetland investigation at Cloe Lake Dam in Jefferson County, PA. This investigation was done with the intent of identifying and evaluating potential wetland resources adjacent to, or within the proposed footprints of Cloe Lake Dam prior to site activities. While Cloe Lake Dam is in good overall condition with no major physical deficiencies, the rehabilitation activities that are expected to take place at Cloe Lake Dam are downstream slope modifications on the embankment and the installation of a new toe drain. Mr. Wicks' investigation results, with the aid of Mr. Hartle, were evaluated and considered during the preliminary planning phase to help mitigate and/or avoid any impacts to delineated wetland resources at the Cloe Lake Dam.

Hydraulic Lift/Storage Tank Removal, Interim Remedial Action, and Site Characterization Activities PTC Former 980 Full-Service Mart Site, McDonald, PA. Rhea was consulted to document the descriptions of various activities, including Site Characterization and sampling on parcel 222 SR 980. Previously, the site operated as a Full-Service Mart that operated as a retail fuel dispensary and had four registered Underground Storage Tanks (USTs). Rhea was tasked to provide support for the various environmental activities that were to occur at the site. One task related to the environmental support of the site is groundwater monitoring events. These events are to be completed on a quarterly basis and include groundwater elevation data collection and sampling. Groundwater samples are to be submitted for the analysis of Used Oil parameters on the PADEP Short List along with samples submitted for lead analysis. Mr. Hartle acquired the depth to water in the monitoring wells using a water level meter. Mr. Hartle obtained the groundwater samples to be analyzed using a Peristaltic Pump that pumped water through a YSI Flow Through Cell. Readings were documented for consistency at five-minute intervals for an approximate time of one-half hour before collecting samples for laboratory analysis.

**FY21 WNY Boiler CEMS/COMS, Washington Navy Yard, D.C.** Mr. Hartle has performed draft reports and reviewal of technical reports for the NAVFAC WNY Boiler CEMS/COMS for FY21 and FY22. Mr. Hartle was tasked with inputting and/or updating existing information that had been provided in the updated Scope of Work (SOW).

**Facility Compliance Inspections, Miscellaneous Inspections and Technical Support Tasks Various Sites in District 1, PA.** Rhea has been contracted to provide On-site Support and Documentation Services at Pennsylvania Turnpike Commission (PTC) Facilities in District 1 for various inspections and compliance with the Pennsylvania Department of Environmental Protection (PADEP) requirements and the PA Storage Tank Regulations. These inspections are primarily conducted for completing documentation that supports the PADEP Form 2630-FM-BECB0575, 'UNDERGROUND STORAGE TANK MODIFICATION REPORT'. Mr. Hartle has performed the Walk-Through Compliance Inspection process along with testing the Veeder-Root monitor, alarm systems, sump integrity, sump liquid sensor, and leak detector functionality. Mr. Hartle has also assisted in the appropriate documentation of stated inspections and discussed proper documentation to assist with the completion of the PADEP Form for UST Systems with appropriate Facility Personnel including photographs and or emails of any areas of concern.

Semi-Annual Groundwater Monitoring and Stormwater Outfall Sampling Ervin Amasteel, Butler, PA.. Mr. Hartle, Geologic Specialist 1, has been tasked to assist in the semi-annual groundwater monitoring of four monitoring wells and semi-annual outfall sampling at two locations at Ervin Amasteel (Ervin), located in Butler, PA. These activities are completed each year as part of the NPDES General Permit requirements for the facility. Groundwater monitoring is completed by purging and sampling each well using dedicated hand bailers provided by Ervin. Outfall sampling is completed by collecting grab samples of stormwater exiting each outfall following a significant rainfall event. Following receipt of



# **EXPERIENCE (CONTINUED)**

laboratory results, Rhea is also tasked with the tabulation and trend analysis of historic analytical results for constituents of concern at each monitoring well.

Semi-Annual Stormwater Outfall Sampling and Inspections, Heniff Transportation Systems, Karns City, PA. Mr. Hartle, Geologic Specialist 1, was tasked to assist in the semi-annual stormwater outfall sampling and inspections at two locations at the Heniff Transportation Systems (formerly Superior Carriers) facility, located in Karns City, PA. These activities are completed each year as part of the NPDES General Permit requirements for the facility. Outfall sampling is completed by collecting grab samples of stormwater exiting each outfall following a significant rainfall event. Mr. Hartle is responsible for obtaining field samples an getting them delivered to the laboratory, take photographs of areas or concern, and fill out forms for each inspection and sampling event. Following each inspection, Mr. Hartle assists with the recommendations for the facility regarding each outfall location and how to prevent sedimentation and/or pollution from entering adjacent surface water bodies. Based on sampling and inspection results, Rhea recommended that the client install BMPs (inlet protection filters) and to install riprap to maintain and improve water quality leaving the site.

**Erosion and Sediment Control and Health and Environmental Safety Inspections, OH, PA, and WV.** As an Environmental Supervisor, Mr. Hartle conducted Erosion and Sediment Control Inspections along with Health and Environmental Safety Inspections on oil and gas drilling sites across OH, PA, and WV. Inspections were conducted to ensure that compliance was met through regional DEP and DCNR regulations along with Client Specific guidelines. Inspections were intended to document any irregularity with Best Management Practices (BMPs) and to distinguish the construction phase of the site, whether it be E&S, PCSM, or Site Restoration/Remediation phases. Along with performing inspections, Mr. Hartle aided in the management of the Inspection Team and performed QA/QC Audits to ensure all Standard Operating Procedures (SOP) were followed. Mr. Hartle reviewed inspection work for accuracy, grammar, spelling, and correct area identification for inspections before reports were submitted to the Client.

Above Ground Storage Tank Inspections, Various Sites, US. As a technician, Mr. Hartle assisted in the Above Ground Storage Tank process per API 650 and API 653. The purpose of these inspections was to indicate the amount of corrosion occurring on the metal through external and internal inspections. Along with corrosion, inspections also consisted of performing leveling measurements (external or internal) of the tank, tank layout and drawings, piping layout and drawings, nozzle layout and drawings, and internal floating roof inspections. Mr. Hartle was previously certified and Ultrasonic Thickness Testing Level I and Level II and Magnetic Particle Testing Level I and Level II.

