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 μ g/L) in wells MW-04 (63.7 μ g/L), -05 (26.3 μ g/L), and -06 (21 μ g/L) located in the central portion of the subject property and well MW-03 (207 μ 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 μ g/L) and TCE (10.9 μ g/L) were detected in well MW-03, with TCE exceeding the applicable Act 2 standard (5 μ 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 μ g/L) in MW-10 (39 μ g/L) and MW-11 (13 μ 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 μ 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.

TABLE OF CONTENTS

| | | Page |
|--------|---------|---|
| EXEC | UTIVE | SUMMARYi |
| TABL | e of c | ONTENTSiv |
| LIST C | DF FIGI | JRESvi |
| LIST C | OF TAB | LESvi |
| LIST C | DF APP | PENDICES |
| ACR | ONYM | S AND ABBREVIATIONS |
| 1.0 | | ODUCTION |
| 1.0 | 1.1 | Objective |
| | 1.2 | Scope of Services |
| | 1.2 | Limiting Conditions and Methodologies Used |
| | 1.5 | 1.3.1 Project Limits |
| | | |
| | | 1.3.2 Limits to Methodologies Used1-21.3.3 User Reliance1-2 |
| | 1.4 | |
| | 1.4 | Report Organization |
| | 1.5 | |
| 2.0 | SITE E | 3ACKGROUND2-1 |
| | 2.1 | Site Location and Description2-1 |
| | 2.2 | Previous Environmental Investigations2-1 |
| | | 2.2.1 Phase I ESA – November 2017 |
| | | 2.2.2 Phase II ESA – July 2019 |
| | | 2.2.3 Phase I ESA – September 2022 |
| 3.0 | SUM | MARY OF FIELD ACTIVITIES |
| 0.0 | 3.1 | Subsurface Investigation |
| | 011 | 3.1.1 Conceptual Site Model |
| | | 3.1.2 Sampling and Analysis Plan |
| | 3.2 | Field Explorations and Methods |
| | 0.2 | 3.2.1 Utility Clearance |
| | | 3.2.2 Soil Borings |
| | | Table 3-1 PID Soil Field Screening Results 3-4 |
| | | 3.2.3 Temporary Monitoring Well Installation |
| | | Table 3-2 Temporary Monitoring Well Construction Details |
| | | 3.2.4 Temporary Monitoring Well Abandonment |
| | | 3.2.5 Groundwater Sampling |
| | | 3.2.6 PPE and Equipment Decontamination |
| | | 3.2.7 Investigation Derived Waste |
| | | U |

| 4.0 | EVAL | UATION AND PRESENTATION OF RESULTS | |
|-----|-------|--|-----|
| | 4.1 | Subsurface Conditions | 4-1 |
| | | 4.1.1 Geologic Setting | 4-1 |
| | | 4.1.2 Regional Hydrogeologic Setting | 4-1 |
| | | 4.1.3 Site-Specific Groundwater Conditions | 4-2 |
| | 4.2 | Analytical Data | 4-2 |
| | | 4.2.1 Soil Analytical Results | |
| | | 4.2.2 Groundwater Analytical Results | 4-3 |
| | | 4.2.3 Vapor Intrusion into Buildings from Groundwater and Soil | |
| | | under the Act 2 Statewide Health Standard | |
| | | 4.2.4 Analytical Data Quality and Data Qualifiers | |
| | | 4.2.5 Verification of a Conceptual Site Model | 4-5 |
| 5.0 | CON | CLUSIONS | 5-1 |
| 6.0 | RECC | OMMENDATIONS | 6-1 |
| 7.0 | ENVI | RONMENTAL PROFESSIONALS | 7-1 |
| | 7.1 | Preparer Qualifications | 7-1 |
| | 7.2 | Environmental Professional Statement and Signature | 7-1 |
| 8.0 | REFER | RENCES | 8-1 |

LIST OF FIGURES

| FIGURE 1 | USGS Topographic Site Vicinity Map |
|----------|--|
| FIGURE 2 | Site Layout Map |
| FIGURE 3 | Soil Boring and Monitoring Well Location Map |
| FIGURE 4 | Exceedances in Soil |
| FIGURE 5 | Exceedances in Groundwater |

LIST OF TABLES

| TABLE 1A | Summary of Analytical Results Compared to Applicable Act 2 |
|----------|--|
| | Standards for Surface Soil |
| TABLE 1B | Summary of Analytical Results Compared to Applicable Act 2 |
| | Standards for Subsurface Soil |
| TABLE 2 | Summary of Analytical Results Compared to Applicable Act 2 |
| | Standards for Groundwater |

LIST OF APPENDICES

| APPENDIX A | Soil Sample Collection Reports |
|------------|------------------------------------|
| APPENDIX B | Water Sample Collection Reports |
| APPENDIX C | Laboratory Test Results |
| APPENDIX D | Waste Disposal Documentation |
| APPENDIX E | Environmental Professional Resumes |
| | |

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 _{gw} | 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 μ 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 2¹/₄-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 μ g/L) in wells MW-04 (63.7 μ g/L), -05 (26.3 μ g/L), -06 (21 μ g/L) located in the central portion of the subject property and well MW-03 (207 μ g/L) located in the north/northeastern portion of the subject property. PCE daughter products cis-1,2-DCE (26.3 μ g/L) and TCE (10.9 μ g/L) were detected in well MW-03, with TCE exceeding the applicable Act 2 standard (5 μ 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 μ g/L) in MW-10 (39 μ g/L) and MW-11 (13 μ 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 μ g/L at MW-03, MW-04, MW-05, and MW-06 and TCE exceeded the Act 2 Non-Residential Standard of 5 μ 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_{gw} of 5 μ g/L in MW-03 (207 μ g/L), MW-04 (63.7 μ g/L), MW-05 (26.3 μ g/L), and MW-06 (21 μ g/L) while TCE was detected above the Act 2 standard and the MSC_{gw} of 5 μ g/L in MW-03 (10.9 μ 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 μ g/L) at a concentration above the Act 2 standard (2,000 μ 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 μ g/L), MW-04 (63.7 μ g/L), MW-05 (26.3 μ g/L), and MW-06 (21 μ g/L) above the applicable Act 2 standard and the MSC_{gw} of 5 μ 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 μ g/L, above the applicable Act 2 standard and the MSC_{gw} of 5 μ 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 μ g/L) in MW-10 (39 μ g/L), MW-11 (13 μ 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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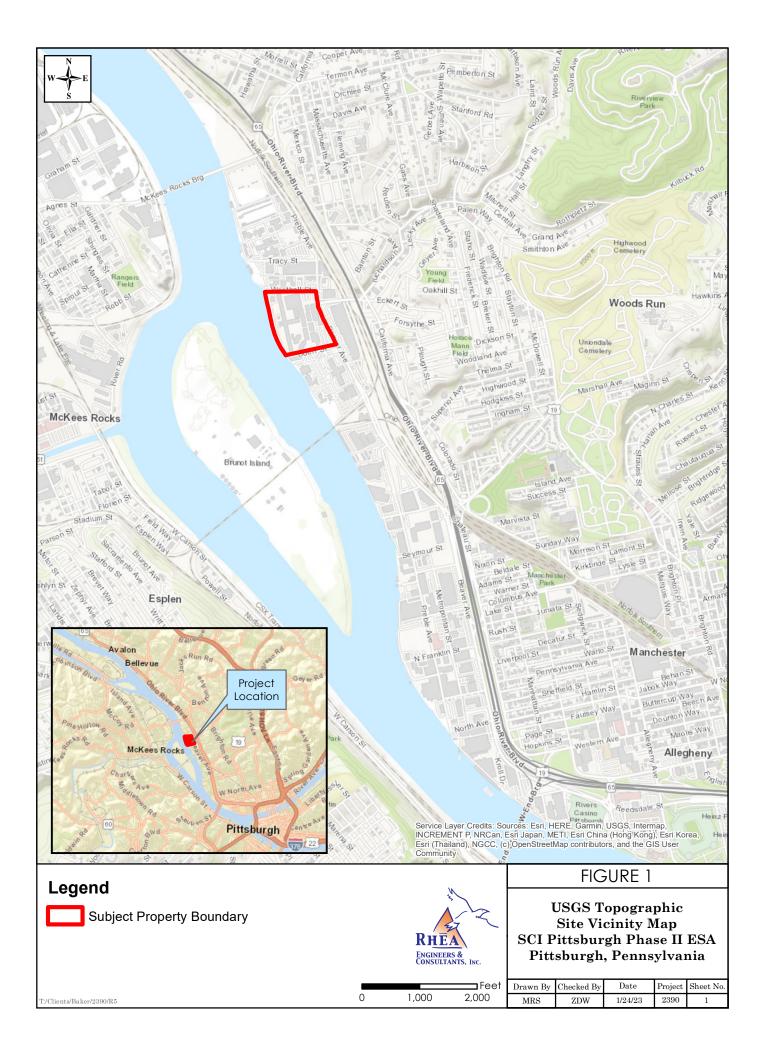
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USEPA. 2001. Supplemental guidance for evaluating the vapor intrusion to indoor air pathway. Partial response to question 3 of 02/05/99 RCRA Corrective Action Environmental Indicator RCRIS Code (CA725).

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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

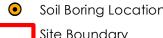
Site Layout Map SCI Pittsburgh Phase II ESA Pittsburgh, Pennsylvania

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







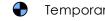


T/Clients/Baker/2390/R5

| 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

| | | | | The state | 11 - 25 | N |
|-----|---------------------|------------|---|--------------|---|------------------|
| | | MW-03 | | 8 | V | V F 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 | | |
| - | TAL Met | | 1 | | K I | 1201 |
| 1 | Manganese | 45 | | | A DAS | 15 the |
| - | | | | The seat | K | C. |
| the | a fl | | | | ALL | 1 top |
| | | 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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| CN | IES/Airbus DS, USDA | , USGS, Ae | eroGRID, IG | N, and the G | S User Co | ommunity |
| | | | FI | GURE 5 |) | |
| | N. | Ex | | es in Gro | | ter |
| | 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 | ≤ 2500 * | 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 0.59 | 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 | IB | 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 ⁽¹⁾ | 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) ⁽³⁾ | 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 ⁽¹⁾ | 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 ⁽²⁾ | 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 (μ 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 ⁽¹⁾ |
|--------------------|---|---------------------------------|
| 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

⁽¹⁾ 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 ⁽¹⁾ |
|--------------------|---|---------------------------------|
| 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⁽²⁾</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

⁽¹⁾ 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 ⁽¹⁾ |
|--------------------|---|---------------------------------|
| 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 ⁽²⁾ | <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

⁽¹⁾ 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 ⁽¹⁾ |
|--------------------|---|---------------------------------|
| 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

⁽¹⁾ 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 ⁽¹⁾ |
|--------------------|---|---------------------------------|
| 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

⁽¹⁾ 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 ⁽¹⁾ |
|--------------------|---|---------------------------------|
| 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

⁽¹⁾ 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 ⁽¹⁾ |
|--------------------|---|---------------------------------|
| 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

⁽¹⁾ 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 ⁽¹⁾ |
|--------------------|---|---------------------------------|
| 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 ⁽²⁾ | <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

⁽¹⁾ 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 ⁽¹⁾ |
|--------------------|---|---------------------------------|
| 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 ⁽²⁾ | 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

⁽¹⁾ 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 ⁽¹⁾ |
|--------------------|---|---------------------------------|
| 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 ⁽²⁾ | <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

⁽¹⁾ 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 ⁽¹⁾ |
|--------------------|---|---------------------------------|
| 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 ⁽²⁾ | 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

⁽¹⁾ 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 ⁽¹⁾ |
|--------------------|---|---------------------------------|
| 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 ⁽²⁾ | <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 | Tubing Diameter: | 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 | Tubing Diameter: | 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 | | | | | | |
| | | | | | | | |
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| | | | | | | | |

| Purge Start Time: | 1135 | Approx. Purge Rate: | 150 ml/min |
|--------------------------|----------------------------------|-------------------------------|----------------------|
| Purge End Time: | 1225 | Approx. Well Volume: | 0.25 gal |
| Sampler: | Erik Hartle | Total Volume Purged: | 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 | Tubing Diameter: | 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 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Purge Start Time: | 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 | Tubing Diameter: | 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 | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Purge Start Time: | 1435 | Approx. Purge Rate: | 150 ml/min |
|--------------------------|------------------------------------|-------------------------------|----------------------|
| Purge End Time: | 1535 | Approx. Well Volume: | 0.10 gal |
| Sampler: | Erik Hartle | Total Volume Purged: | 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 | Tubing Diameter: | 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 | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Purge Start Time: | 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 | Tubing Diameter: | 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 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Purge Start Time: | 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 | Tubing Diameter: | 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 | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |

| Purge Start Time: | 1020 | Approx. Purge Rate: | 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 | Tubing Diameter: | 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 | | | | | | |
| | | | | | | | |
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| | | | | | | | |

| Purge Start Time: | NA | Approx. Purge Rate: | NA |
|--------------------------|-------------------------------------|-----------------------------|----------------------|
| Purge End Time: | NA | Approx. Well Volume: | NA |
| Sampler: | Erik Hartle | Total Volume Purged: | 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 | Tubing Diameter: | 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 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Purge Start Time: | 1350 | Approx. Purge Rate: | 150 ml/min |
|--------------------------|-----------------------------------|----------------------------------|--------------------|
| Purge End Time: | 1440 | Approx. Well Volume: | 0.40 gal |
| Sampler: | Erik Hartle | Total Volume Purged: | 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 | Tubing Diameter: | 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 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Purge Start Time: | 1230 | Approx. Purge Rate: | 150 ml/min |
|--------------------------|-----------------------------------|---------------------------------|---------------------|
| Purge End Time: | 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 | Tubing Diameter: | 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 | | | | | | |
| | | | | | | | |
| | + + | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Purge Start Time: | 1110 | Approx. Purge Rate: | 200 ml/min |
|--------------------------|-----------------------------------|-------------------------------|----------------------|
| Purge End Time: | 1210 | Approx. Well Volume: | 0.34 gal |
| Sampler: | Tyler Newell | Total Volume Purged: | 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 | Tubing Diameter: | 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 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Purge Start Time: | 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 | / | | | | |
| 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 | # |
| /OLATILE ORGANICS | | | | |
| 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 | Dilution | 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 | Qualifiers |
|-----------------------|------------|----------|-----------|--------------------|-------------------|
| 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 | Dilution | 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 | Dilution | 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

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 | Dilution | 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 | Dilution | Analysis Date/Time | <u>By</u> | <u>Cntr</u> |
|-------------------|---------------|------|--------------|------------|------------------|-----------------|--------------------|-----------|-------------|
| | | | | | | | | | |
| ALO: (II II I | | | 1 12 1.4 12 | | T 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 | Dilution | 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> | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 |
|---------|
|---------|

| 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 | Dilution | 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 |
| • | | | , |

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 | Dilution | 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 | Dilution | 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 | Qualifiers |
|-----------------------|------------|----------|-----------|--------------------|-------------------|
| 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 |
| | | I | | | | | | | |



| 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 | Dilution | 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 |
| I | | | |

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 | Dilution | 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 | Dilution | 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



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

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

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 | Dilution | 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 | Dilution | 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> |
|---------------------------------|-------------------|-------------|--------------|--------------------|--------------------------------------|-----------------|--------------------|-----------|-------------|
| ALS is one of the world's large | est and most dive | rsified an | alytical tes | sting service prov | viders. To learn more visit us at: w | vw.alsglobal. | com | | |
| 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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> |
|--|---------------|-------------|-----------------|-------------------|------------------------------------|-----------------|--------------------|-----------|-------------|
| 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 | ers. To learn more visit us at: ww | w.alsglobal. | | of 14 | 1 |



| 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 |
| · · | | н | |

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 | Dilution | 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 | Dilution | 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 | Dilution | Analysis Date/Time | <u>By</u> | <u>Cntr</u> |
|--|---------------|-------------|--------------|-----|--------|-----------------|--------------------|-----------|-------------|
| ALS is one of the world's largest and most diversified analytical testing service providers. To learn more visit us at: www.alsglobal.com 2/3/2023 9:09 AM 60 of 141 | | | | | | | | | 41 |



| 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 | Dilution | 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 | Dilution | 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
 01/11/2023 15:25

 Lab Sample ID
 3282987011
 Lab Receipt
 01/13/2023 09:02

VOLATILE ORGANICS (cont.)

| Compound | <u>Result</u> | Flag Units | <u>RDL</u> | Method | Dilution | 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 | Dilution | 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 | |

59 - 131

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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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> | Dilution | 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 | Qualifiers |
|-----------------------|------------|----------|-----------|--------------------|-------------------|
| 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 | Dilution | 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 | Dilution | 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 | Qualifiers |
|-----------------------|------------|----------|-----------|--------------------|-------------------|
| 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 | Dilution | Analysis Date/Time | <u>By</u> | <u>Cntr</u> |
|-----------------|---------------|------|--------------|-----|---|-----------------|--------------------|-----------|-------------|
| | | | | | | | | | |
| | | | - 1 1 1 4. | | and dialog . The foreign and share a distance of the second | | | | |



| 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> | Dilution | 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 | Dilution | 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 | Dilution | Analysis Date/Time | <u>By</u> | <u>Cntr</u> |
|----------|---------------|------|--------------|-----|--|-----------------|--------------------|-----------|-------------|
| | | | | | | | | | |
| | | | - 1 - 1 1 1 | | and the second sec | | | | |



| 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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> | Dilution | Analysis Date/Time | <u>By</u> | <u>Cntr</u> |
|-----------------|---------------|-------------|--------------|-----------|---------------|-----------------|--------------------|-----------|-------------|
| | | | | · · · · · | | | | | |



| 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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>Dilution</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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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

| | | | | | | | | _ | - |
|--------------------|---------------|--------------------|--------------|-------|-------------|-----------------|--------------------|-----------|-------------|
| 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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 |
| • | | | |

METALS

| <u>Compound</u> | <u>Result</u> | Flag | <u>Units</u> | RDL | Method | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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> | Dilution | 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 |



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

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

METALS

| <u>Compound</u> | <u>Result</u> | <u>Flag</u> | <u>Units</u> | RDL | <u>Method</u> | Dilution | 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 | Dilution | 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> | Dilution | 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 | Dilution | 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 | D 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 <</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 | - | | ples 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 - λ | | | |
| 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 4 (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 | G=Grab; C=Composite | 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 | (K) | | - | 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 | | † | | |
| 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 | | |
| 6 | | | 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)

ALS is one of the world's largest and most diversified analytical testing service providers. To learn more visit us at: www.alsglobal.com 2/3/2023 9:07 AM



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 # |
| | | | | | |



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

        Lab Sample ID
        3282926001
        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, 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 | Dilution | 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 | Dilution | 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 | 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 12:52 | 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 | Dilution | 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> | Dilution | 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> |



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        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 | 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 12:54 | 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 | Dilution | 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 | Dilution | Analysis Date/Time | <u>By</u> | <u>Cntr</u> |
|---------------------------|---------------|-------------|--------------|-----|-------------|-----------------|--------------------|-----------|-------------|
| Bromochloromethane | ND | ND,P1 | ug/L | 1.0 | SW846 8260C | 1 | 01/18/2023 05:27 | 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> | Dilution | 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 | Dilution | 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> | 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 12:56 | 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 | Dilution | 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> | Dilution | 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 | 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 12:58 | 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 | Dilution | 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 | Dilution | 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> | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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> | Dilution | 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 | 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 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 | Dilution | 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 | Dilution | 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> | Dilution | 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 | Dilution | 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 | | | | | |



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

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

| <u>Compound</u> | <u>Result</u> | <u>Flag</u> | <u>Units</u> | <u>RDL</u> | Method | Dilution | 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 | Dilution | 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 | Dilution | 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 |



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        Client Sample ID
        MW-11
        Collected
        01/16/2023 12:15

        Lab Sample ID
        3283219002
        Lab Receipt
        01/17/2023 08:35
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METALS

| Compound | <u>Result</u> | Flag | <u>Units</u> | <u>RDL</u> | Method | Dilution | 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 | Dilution | 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 | Dilution | 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 |
|--|
|--|



```
        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 | Dilution | 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 | Dilution | 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 | Dilution | 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> | Dilution | 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 | Dilution | 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 | Dilution | 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> |



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        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 | Dilution | 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 | Dilution | 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 0⁴ Lab Receipt 0⁴

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 | Qualifiers |
|-----------------------|------------|----------|-----------|--------------------|-------------------|
| 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 | Dilution | 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 | Dilution | 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

```
        Client Sample ID
        MW-08
        Collected
        01/17/2023 16:15

        Lab Sample ID
        3283430001
        Lab Receipt
        01/18/2023 08:42
```

METALS

| Compound | <u>Result</u> | Flag | <u>Units</u> | <u>RDL</u> | Method | Dilution | 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 | Dilution | 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 | Dilution | 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 | Dilution | 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> |
|---|
|---|



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 | Dilution | 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 | Dilution | 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

0

0

0

0

0

100

100

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 | | |
| ALS is one of the world's larg | leat and most divor | sified anal | vitical testing | oonuioo provi | dora To los | arn mara i | vicit up ot: www. | alaglabal aam | |



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 | | |
| 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 | | | | | | | | | |
| | | | | | D | | | | |
| <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 |
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| | | N/A | N/A | N/A | | SW846 8260C | 936394 |
| | | N/A | N/A | N/A | | Calculation | |
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| 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 |
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| | | N/A | N/A | N/A | | SW846 7196A | 935467 |
| 283083002 | MW-05D | SW846 3015A | 935508 | 01/15/2023 21:28 | ANN | SW846 6020A | 936548 |
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| | | N/A | N/A | N/A | | Calculation | |
| | | N/A | N/A | N/A | | SW846 7196A | 935467 |
| | | | | | | | |
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| | | 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 |
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| | | 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 |
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| | | N/A | N/A | N/A | | Calculation | 307002 |
| | | N/A | N/A | N/A | | SW846 7196A | 936307 |
| | | | | | A N I N I | | |
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| | | 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 |
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| | | 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.

