The Reese Group
Environment, Compliance, Construction

February 25, 2021

Mr. Walter Hauk
Millennium Forms
550 E Centralia St
Elkhorn, WI 53121
wh@millenniumforms.com

**RE: Phase 2 Site Assessment**
**Millennium Forms**
**550 E Centralia St.**
**Elkhorn, Wisconsin**

Dear Mr. Hauk:

A Phase II Environmental Site Assessment was completed by The Reese Group, LLC (TRG) on behalf of Millennium Forms of the property located at 550 E Centralia Street in Elkhorn, Wisconsin. The following sections include a discussion of the Site background, a summary of previous investigations and site assessments performed at the Property, a discussion of methods of investigation, and a summary of results for soil and groundwater samples collected across the Site.

## 1.0 SITE BACKGROUND

The Millennium Forms Site, herein referred to as the "Site" or "Property", includes two adjacent parcels totaling approximately 5.2 acres located at 550 E Centralia Street in the City of Elkhorn, WI including Tax Key Numbers YV SE 00009K and YV SE 00004D1. The Site is generally located in the SE ¼ of the NW ¼ of Section 6, Range 17E, Township 2N. Site location is depicted on a United States Geologic Service (USGS) topographic map included as **Figure 1**. According to Walworth County Land Records, both properties are currently owned by AGIO LLC. The Site is currently developed as an industrial manufacturing facility of stamped tiles and panel systems for commercial and residential buildings. The current production process at Millennium Forms includes the use of acids (phosphoric, chromic, and sulfuric), bases (sodium hydroxide), and other industrial chemicals for finishing and coating processes for tiles and panels.

Historically, the Site has been developed for industrial purposes including a printing plant and currently as a manufacturer of tiles/panels. Previous industries that occupied the property include Enerquip Electro-Polish, Elkhorn Webpress, Inc., Brown Printing Company – Woodstock Division (Elkhorn Plant), and Millennium Forms. Chemicals associated with former printing operations on site include inks, solvents, adhesives, and methyl ethyl ketone. Listed Hazardous Wastes produced by the former Brown Printing Company included waste codes D001 (ignitable wastes), F003 (non-halogenated solvents), F005 (non-halogenated solvents), D018 (benzene), and D035 (methyl ethyl ketone (MEK)).

The Site is bordered to the north and east by residential neighborhoods and Interstate 43, to the west by the 540 E Centralia St property (industrial development), and the south by E Centralia St. The topography is relatively flat with surface elevations ranging from approximately 990 to 1,000 feet above mean sea level (USGS, 1971). Previous environmental reports have documented historic spills on site, remedial actions (excavation of contaminated soil), and the presence of contaminants including lubricating oil, polycyclic aromatic hydrocarbons (PAHs), and hexavalent chromium.

## 1.0 PURPOSE

The primary purpose of the Phase II ESA was to assess the soil and groundwater quality in areas of the Site where potential releases to the environment may have occurred. The objective of the ESA was to confirm the presence or absence of contaminants of concern.

## 2.0 SCOPE OF WORK

The proposed scope of work included:

- Review documents from prior investigations and site assessments.
- Install/abandon three (3) Geoprobe soil borings to 15-20 ft bgs.
- Collect one sample at each boring location based on field observations and field screening for parameters including:
    - Hexavalent Chromium
    - Resource Conservation and Recovery Act (RCRA) Metals
    - Polycyclic Aromatic Hydrocarbons (PAHs)
    - Volatile Organic Compounds (VOCs)
- Install/abandon three (3) temporary groundwater monitoring wells.

- Collect a groundwater sample from each temporary monitoring well for analysis of Hexavalent Chromium, RCRA Metals, PAHs, and VOCs.

- Dispose of waste (soil cuttings and purge water).

- Prepare a letter report that summarizes the results of the Phase II ESA.

## 3.0 PREVIOUS INVESTIGATIONS

TRG conducted a review of historical environmental site investigation and remediation reports that were provided by the client and/or available on the Wisconsin Department of Natural Resources (WDNR) BRRTS on the Web online database for contaminated sites in the State of Wisconsin. Three previous BRRTS cases were identified for the subject property including:

1. **04-65-044291 550 E CENTRALIA ST [HISTORIC SPILL]** – Closed Historic SPILL case (Closed in 1989). Spill of paints, inks, and dyes reported at Elkhorn Webpress in 1989 due to after burner failure.

2. **02-65-152260 ELKHORN WEBPRESS INC** – Closed ERP case (Closed in 1997). Spill of unknown amount of lubricating oil/engine oil in 1997. Braun Intertec Corporation conducted a Phase 1 ESA and limited remedial investigation at the Elkhorn Webpress Site located at 550 E Centralia St in Elkhorn, WI in June of 1997. During the Phase 1 ESA, two areas of surface staining were observed near down spouts and beneath a former discharge line from air compressors. A total of four soil samples were submitted for laboratory analytical analysis from previous excavation and geoprobe/investigation activities conducted by Braun Intertec Corp. from May to July 1997. PAHs and diesel range organics (DRO) were detected in soil samples collected on site ranging from 0 to 6 ft bgs. DRO was detected at 230 mg/Kg, which exceeded the WDNR Generic RCL of 100 mg/Kg. A small remedial excavation approximately 3 ft wide by 4 ft deep was conducted in the area of the stained soil.

3. **04-65-552088 MILLENIUM TILES SPILL** – Closed SPILL case (Closed in 2008). Spill of chromic and sulfuric acid on site near NE corner of building. Spill cleanup and remediation conducted on site by North Shore Environmental Construction, Inc. The liquid mixture had spilled inside the building and flowed out of the northeastern corner of the building under the walls and the door of the facility. Spilled liquid was observed running off the edge of the building floor from under the walls and onto the grass, which made its way to a swale located approximately 10 to 20 ft from the

building. Impacted soil excavation included the removal of approximately 120.14 tons of topsoil and clay from the 2-4" below ground surface (bgs) near the northeast corner of the building. The soil was temporary stockpiled on site, sampled for hexavalent chromium, and transported to a landfill for disposal. A total of eight (8) soil samples (MT-1 through MT-8) were collected from approximately 2-4" bgs. Hexavalent chromium ranged from 12.4 to 91.4 mg/Kg in the verification soil samples collected from the excavation area.

## 4.0 METHODS OF INVESTIGATION

### Soil

The soil investigation consisted of the advancement of three (3) borings (TRG SB-1 through TRG SB-3) at select locations at the Site (**Figure 2**). TRG SB-1 was placed outside the building approximately 5 feet north of the northeast corner of the Millennium Forms building near the former acid (chromic and sulfuric) spill area documented in the *North Shore Env. Const. Remedial Action Report* (North Shore Environmental Construction Inc., 2007). TRG SB-2 was advanced in the chemical storage area. TRG SB-3 was placed approximately 2 ft west of the process line tank and sump located in the northern portion of the building.

Soil samples were collected at 2-ft intervals at each boring location using a Geoprobe® equipped with a split-spoon sampler. Soil type, relative moisture content, color, grain size, and other physical characteristics of the samples were documented on WDNR soil boring logs (**Appendix A**). The soil samples were also examined for obvious signs of contamination (odor, occurrence of free product, or unusual color/texture). A photoionization detector (PID), calibrated to an isobutylene equivalent gas standard, was used to field screen each sample for the presence of volatile organic vapors. Sample intervals were chosen based on whether or not the soil exhibited any signs of contamination (e.g., obvious staining, odor, or free product) or emitted organic vapors detected by the PID above background concentrations. Soil samples collected were submitted under proper chain-of-custody documentation to TestAmerica Laboratories, Inc. in Chicago, Illinois for laboratory analysis of RCRA Metals, Hexavalent Chromium, PAHs, and VOCs.

### Groundwater

The groundwater investigation consisted of the installation of three (3) temporary 1" polyvinyl chloride (PVC) groundwater monitoring wells at each of the soil boring locations. The temporary wells were installed with 10 ft slotted well screens that intersected the water table.

Water level and well depth measurements were obtained using a Solinst water level indicator probe. The monitoring wells were purged and sampled with a peristaltic pump and dedicated poly tubing at each well location. Water quality parameters including pH, dissolved oxygen (DO), specific conductivity (SC), and oxidation-reduction potential (ORP) were measured at each sample location using a YSI 556 water quality meter. The water quality meter was calibrated according to manufacturers' specifications and recorded in the field book prior to sampling. The Solinst water level indicator, YSI 556 water quality meter, and flow-through cell used to collect groundwater samples were decontaminated with a solution of Alconox and deionized water in between groundwater sampling locations.

Groundwater samples were collected in appropriate laboratory-supplied containers and properly preserved, where required, and immediately placed on ice in a cooler for shipment to the laboratory. Groundwater samples were analyzed for RCRA Metals, Hexavalent Chromium, PAHs, and VOCs. They were shipped to TestAmerica Laboratories, Inc. in Chicago, Illinois under property chain-of-custody documentation for laboratory analysis.

**Investigative Derived Waste**

Soil cuttings and purge water generated during soil boring installation and groundwater monitoring activities are stored in 55-gallon drums on Site near the loading dock ramp.

## 5.0 RESULTS

**Soil**

The results of chemical analysis of soil samples collected at the Site on January 15, 2021 are summarized in **Table 1**. Laboratory analytical reports are included as **Appendix B**. Photographic documentation of soil sampling activities is included in **Appendix C**.

Polynuclear Aromatic Hydrocarbons (PAHs)

Soil samples analyzed for PAHs were collected at each boring location. Relatively low levels of PAHs were detected at boring location, TRG SB-1. TRG SB-1 is located outside the building in an area of a known spill. All the detections were below regulatory standards.

RCRA Metals and Hexavalent Chromium

Soil samples analyzed for RCRA Metals and Hexavalent Chromium were collected at each boring location. All metal compounds detected had concentrations below their respective Protective of Groundwater (GW) and Direct Contact (DC) Residual Contaminant Levels (RCLs), except for Hexavalent Chromium. Hexavalent Chromium was detected at concentrations above its Non-Industrial Direct Contact RCL at TRG SB-1 (1-3') and TRG SB-3 (2-4').

Volatile Organic Compounds (VOCs)

Soil samples were collected at each of the three boring locations and analyzed for VOCs. No VOC constituents were detected above laboratory method detection limits.

**Groundwater**

The results of chemical analysis of groundwater samples collected at the Site are summarized in **Table 2**. Field water quality measurements and observations are included in **Table 3**. Laboratory analytical reports are included in **Appendix B**.

RCRA Metals and Hexavalent Chromium

Arsenic, barium, total chromium, and lead were detected at all three groundwater monitoring well locations. Arsenic and lead exceeded their respective NR 140 Preventive Action Limit (PAL) at TRG TW-1, a boring located in the area of the former spill. Total chromium exceeded its PAL at TRG TW-2 (hazardous waste storage area) and NR140 Enforcement Standard (ES) at TRG TW-3 (process line).

Hexavalent chromium is a toxic oxidation state of total chromium and is generally produced by industrial processes. Based on the results of total chromium vs hexavalent chromium, it appears that the total chromium concentrations are comprised almost entirely of hexavalent chromium at sample locations TRG TW-2 (12 ug/L) and TRG TW-3 (390 ug/L).

The pH of the groundwater samples ranged from 7.4 to 9.9 standard units. pH values were elevated in areas where hexavalent chromium was detected.

Volatile Organic Compounds (VOCs)

Three VOC compounds were detected in the groundwater samples including 1,4-Dichlorobenzene (TRG TW-1), cis-1,2-Dichloroethene (TRG TW-2 and TRG TW-3), and Vinyl chloride (TRG TW-2 and TRG TW-3).

Vinyl chloride exceeded its NR140 ES at TRG TW-2 and TRG TW-3.

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

### Conclusions

Based on the laboratory analytical results of Site soil and groundwater samples the following conclusions and recommendations are made:

Soil

- RCRA metals and Hexavalent Chromium were detected in samples collected from soil boring locations TRG SB-1 and TRG SB-3.
- PAHs were detected at concentrations below regulatory standards at boring location TRG SB-1.
- VOCs were not detected in any soil sample.
- Hexavalent chromium exceeded its Non-Industrial DC RCL in two of the three soil boring locations including TRG SB-1 and TRG SB-3.

Groundwater

- VOCs, RCRA Metals and/or Hexavalent Chromium were detected in samples collected from each temporary monitoring well installed at the Site.
- PAHs were not detected in any groundwater sample.
- Arsenic and/or lead concentrations exceeded their respective PALs at sample locations TRG TW-1 and TRG TW-2.
- Chromium (total) exceeded its PAL at sample location TRG TW-2. Chromium exceeded its ES at TRG TW-3.

- Hexavalent chromium is an oxidation state of total chromium. The chromium concentrations reported in TRG-TW-2 and TRG-TW-3 are likely comprised of all hexavalent chromium.

- pH readings are elevated in samples collected from TRG TW-2 and TRG TW-3 ranging from 8.0 to 9.9.

GW RCL exceedances for Vinyl chloride were likely a result of a historical release(s) to the environment from past operations and/or historical use of solvents by former industries at the Site. The total chromium/hexavalent PAL and ES exceedances are likely related to current industrial operations.

Recommendations

- Submit a Notification of Hazardous Substance Discharge (Form 4400-225 (R02/20) to the WDNR.

- Conduct a Site Investigation to determine the magnitude and extent of contamination.

Please contact me at 414-326-4875 or treese@the-reese-group.com if you have any questions or require additional information regarding our submission.

Sincerely,

THE REESE GROUP, LLC

Christine A Reese, P.G.
President

**TABLES**

**Table 1 – Soil Analytical Results**
**Table 2 – Groundwater Analytical Results**
**Table 3 – Water Quality Field Form**

**Table 1**
**Soil Analytical Data**
**Phase 2 ESA**
**Millennium Forms**
**550 E Centralia St, Elkhorn, WI**

| Constituent | Industrial Direct Contact RCL | Non-Industrial Direct Contact RCL | Soil to Groundwater Pathway RCL | WI Background Threshold Value (BTV) | TRG SB-1 (1-3') 01/15/2021 | TRG SB-2 (2-4') 01/15/2021 | TRG SB-3 (2-4') 01/15/2021 |
|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds (VOCs) (mg/Kg)** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 12.3 | 2.78 | 0.0534 | NE | < 0.032 | < 0.029 | < 0.027 |
| 1,1,1-Trichloroethane | 640 | 640 | 0.1402 | NE | < 0.026 | < 0.023 | < 0.022 |
| 1,1,2,2-Tetrachloroethane | 3.6 | 0.81 | 0.0002 | NE | < 0.027 | < 0.025 | < 0.024 |
| 1,1,2-Trichloroethane | 7.01 | 1.59 | 0.0032 | NE | < 0.024 | < 0.022 | < 0.021 |
| 1,1-Dichloroethane | 22.2 | 5.06 | 0.4834 | NE | < 0.028 | < 0.025 | < 0.024 |
| 1,1-Dichloroethene | 1190 | 320 | 0.005 | NE | < 0.027 | < 0.024 | < 0.023 |
| 1,1-Dichloropropene | NE | NE | NE | NE | < 0.020 | < 0.018 | < 0.018 |
| 1,2,3-Trichlorobenzene | 934 | 62.6 | NE | NE | < 0.031 | < 0.028 | < 0.027 |
| 1,2,3-Trichloropropane | 0.109 | 0.0051 | 0.0519 | NE | < 0.028 | < 0.026 | < 0.024 |
| 1,2,4-Trichlorobenzene | 113 | 24 | 0.408 | NE | < 0.023 | < 0.021 | < 0.020 |
| 1,2,4-Trimethylbenzene | 219 | 219 | 1.3787 | NE | < 0.025 | < 0.022 | < 0.021 |
| 1,2-Dibromo-3-Chloropropane | 0.0923 | 0.0075 | 0.0002 | NE | < 0.14 | < 0.12 | < 0.12 |
| 1,2-Dibromoethane | 0.221 | 0.05 | 0.0000282 | NE | < 0.026 | < 0.024 | < 0.023 |
| 1,2-Dichlorobenzene | 376 | 376 | 1.168 | NE | < 0.023 | < 0.021 | < 0.020 |
| 1,2-Dichloroethane | 2.87 | 0.652 | 0.0028 | NE | < 0.027 | < 0.024 | < 0.023 |
| 1,2-Dichloropropane | 15 | 3.4 | 0.0033 | NE | < 0.029 | < 0.026 | < 0.025 |
| 1,3,5-Trimethylbenzene | 182 | 182 | 1.3787 | NE | < 0.026 | < 0.023 | < 0.022 |
| 1,3-Dichlorobenzene | 297 | 297 | 1.1528 | NE | < 0.027 | < 0.025 | < 0.024 |
| 1,3-Dichloropropane | 1490 | 1490 | NE | NE | < 0.025 | < 0.022 | < 0.021 |
| 1,4-Dichlorobenzene | 16.4 | 3.74 | 0.144 | NE | < 0.025 | < 0.023 | < 0.021 |
| 2,2-Dichloropropane | 191 | 191 | NE | NE | < 0.030 | < 0.027 | < 0.026 |
| 2-Chlorotoluene | 907 | 907 | NE | NE | < 0.022 | < 0.019 | < 0.019 |
| 4-Chlorotoluene | 253 | 253 | NE | NE | < 0.024 | < 0.022 | < 0.021 |
| Benzene | 7.07 | 1.6 | 0.0051 | NE | < 0.010 | < 0.0090 | < 0.0086 |
| Bromobenzene | 679 | 342 | NE | NE | < 0.024 | < 0.022 | < 0.021 |
| Bromochloromethane | 906 | 216 | NE | NE | < 0.029 | < 0.026 | < 0.025 |
| Bromodichloromethane | 1.83 | 0.418 | 0.0003 | NE | < 0.025 | < 0.023 | < 0.022 |
| Bromoform | 113 | 25.4 | 0.0023 | NE | < 0.033 | < 0.030 | < 0.029 |
| Bromomethane | 43 | 9.6 | 0.0051 | NE | < 0.055 | < 0.049 | < 0.047 |
| Carbon tetrachloride | 4.03 | 0.916 | 0.0039 | NE | < 0.026 | < 0.024 | < 0.023 |
| Chlorobenzene | 761 | 370 | 0.1358 | NE | < 0.026 | < 0.024 | < 0.023 |
| Chloroethane | 2120 | 2120 | 0.2266 | NE | < 0.035 | < 0.031 | < 0.030 |
| Chloroform | 1.98 | 0.454 | 0.0033 | NE | < 0.025 | < 0.023 | < 0.022 |
| Chloromethane | 669 | 159 | 0.0155 | NE | < 0.022 | < 0.020 | < 0.019 |
| cis-1,2-Dichloroethene | 2340 | 156 | 0.0412 | NE | < 0.028 | < 0.025 | < 0.024 |
| cis-1,3-Dichloropropene | 1210 | 1210 | NE | NE | < 0.028 | < 0.026 | < 0.025 |
| Dibromochloromethane | 38.9 | 8.28 | 0.032 | NE | < 0.033 | < 0.030 | < 0.029 |
| Dibromomethane | 143 | 34 | NE | NE | < 0.018 | < 0.017 | < 0.016 |
| Dichlorodifluoromethane | 530 | 126 | 3.0863 | NE | < 0.046 | < 0.042 | < 0.040 |
| Ethylbenzene | 35.4 | 8.02 | 1.57 | NE | < 0.013 | < 0.011 | < 0.011 |
| Hexachlorobutadiene | 7.19 | 1.63 | NE | NE | < 0.031 | < 0.028 | < 0.026 |
| Isopropyl ether | 2260 | 2260 | NE | NE | < 0.019 | < 0.017 | < 0.016 |
| Isopropylbenzene | 268 | 268 | NE | NE | < 0.026 | < 0.024 | < 0.023 |
| Methyl tert-butyl ether | 282 | 63.8 | 0.027 | NE | < 0.027 | < 0.024 | < 0.023 |
| Methylene Chloride | 1150 | 61.8 | 0.0026 | NE | < 0.11 | < 0.10 | < 0.096 |
| Naphthalene | 24.1 | 5.52 | 0.6582 | NE | < 0.023 | < 0.021 | < 0.020 |
| n-Butylbenzene | 108 | 108 | NE | NE | < 0.027 | < 0.024 | < 0.023 |
| N-Propylbenzene | 264 | 264 | NE | NE | < 0.028 | < 0.026 | < 0.024 |
| p-Isopropyltoluene | 162 | 162 | NE | NE | < 0.025 | < 0.022 | < 0.021 |
| sec-Butylbenzene | 145 | 145 | NE | NE | < 0.027 | < 0.025 | < 0.024 |
| Styrene | 867 | 867 | 0.22 | NE | < 0.026 | < 0.024 | < 0.023 |
| tert-Butylbenzene | 183 | 183 | NE | NE | < 0.027 | < 0.025 | < 0.024 |
| Tetrachloroethene | 145 | 33 | 0.0045 | NE | < 0.025 | < 0.023 | < 0.022 |
| Toluene | 818 | 818 | 1.1072 | NE | < 0.010 | < 0.0091 | < 0.0087 |
| trans-1,2-Dichloroethene | 1850 | 1560 | 0.0626 | NE | < 0.024 | < 0.022 | < 0.021 |
| trans-1,3-Dichloropropene | 1510 | 1510 | NE | NE | < 0.025 | < 0.022 | < 0.021 |
| Trichloroethene | 8.41 | 1.3 | 0.0036 | NE | < 0.011 | < 0.010 | < 0.0097 |
| Trichlorofluoromethane | 1230 | 1230 | 4.4775 | NE | < 0.029 | < 0.026 | < 0.025 |
| Vinyl chloride | 2.08 | 0.0668 | 0.0001 | NE | < 0.018 | < 0.016 | < 0.015 |
| Xylenes, Total | 260 | 260 | 3.96 | NE | < 0.015 | < 0.014 | < 0.013 |

**Table 1**
**Soil Analytical Data**
**Phase 2 ESA**
**Millennium Forms**
**550 E Centralia St, Elkhorn, WI**

| Constituent | Industrial Direct Contact RCL | Non-Industrial Direct Contact RCL | Soil to Groundwater Pathway RCL | WI Background Threshold Value (BTV) | TRG SB-1 (1-3') 01/15/2021 | TRG SB-2 (2-4') 01/15/2021 | TRG SB-3 (2-4') 01/15/2021 |
|---|---|---|---|---|---|---|---|
| **Polycyclic Aromatic Hydrocarbons (PAHs) (mg/Kg)** | | | | | | | |
| 1-Methylnaphthalene | 72.7 | 17.6 | NE | NE | < 0.0096 | < 0.0090 | < 0.0087 |
| 2-Methylnaphthalene | 3010 | 239 | NE | NE | < 0.0072 | < 0.0068 | < 0.0065 |
| Acenaphthene | 45200 | 3590 | NE | NE | < 0.0070 | < 0.0066 | < 0.0064 |
| Acenaphthylene | NE | NE | NE | NE | < 0.0052 | < 0.0049 | < 0.0047 |
| Anthracene | 100000 | 17900 | 196.949 | NE | < 0.0065 | < 0.0062 | < 0.0059 |
| Benzo[a]anthracene | 20.8 | 1.14 | NE | NE | **0.018 J** | < 0.0050 | < 0.0048 |
| Benzo[a]pyrene | 2.11 | 0.115 | 0.47 | NE | **0.030 J** | < 0.0072 | < 0.0069 |
| Benzo[b]fluoranthene | 21.1 | 1.15 | 0.4781 | NE | **0.047** | < 0.0080 | < 0.0076 |
| Benzo[g,h,i]perylene | NE | NE | NE | NE | < 0.013 | < 0.012 | < 0.011 |
| Benzo[k]fluoranthene | 211 | 11.5 | NE | NE | **0.012 J** | < 0.011 | < 0.010 |
| Chrysene | 2110 | 115 | 0.1442 | NE | **0.026 J** | < 0.010 | < 0.0097 |
| Dibenz(a,h)anthracene | 2.11 | 0.115 | NE | NE | < 0.0076 | < 0.0071 | < 0.0068 |
| Fluoranthene | 30100 | 2390 | 88.8778 | NE | **0.041** | < 0.0069 | < 0.0066 |
| Fluorene | 30100 | 2390 | 14.8299 | NE | < 0.0055 | < 0.0052 | < 0.0050 |
| Indeno[1,2,3-cd]pyrene | 21.1 | 1.15 | NE | NE | **0.017 J** | < 0.0096 | < 0.0092 |
| Naphthalene | 24.1 | 5.52 | 0.6582 | NE | < 0.0060 | < 0.0057 | < 0.0055 |
| Phenanthrene | NE | NE | NE | NE | **0.014 J** | < 0.0052 | < 0.0049 |
| Pyrene | 22600 | 1790 | 54.5455 | NE | **0.034 J** | < 0.0073 | < 0.0070 |
| **Metals (mg/Kg)** | | | | | | | |
| Arsenic | 3 | 0.677 | 0.584 | 8.0 | **3.7** | **4.1** | **3.0** |
| Barium | 100000 | 15300 | 164.8 | 364 | **63** | **52** | **35** |
| Cadmium | 985 | 71.1 | 0.752 | 1.0 | **0.22 J B** | **0.20 B** | **0.20 B** |
| Chromium | NE | NE | 360000 | 44 | **36** | **13** | **14** |
| Lead | 800 | 400 | 27 | 52 | **10** | **6.1** | **3.8** |
| Mercury | 3.13 | 3.13 | 0.208 | NE | **0.036** | **0.013 J** | **0.012 J** |
| Selenium | 5840 | 391 | 0.52 | NE | < 0.66 | < 0.56 | < 0.59 |
| Silver | 5840 | 391 | 0.8491 | NE | **0.38 J** | **0.32 J** | **0.32 J** |
| Chromium, hexavalent | 6.36 | 0.301 | NE | NE | **0.92 J** | < 0.43 | **1.4** |

**Notes:**
NE = Not Established
NS = Not Sampled
< = Less than the detection limit
**Bold = detected concentration**
Blue indicates exceedance of WDNR Soil to Groundwater Pathway RCL
Yellow indicates exceedance of WDNR Non-Industrial Direct Contact RCL
Red indicates exceedance of WDNR Industrial Direct Contact RCL
RCL = Residual Contaminant Level
TRG = The Reese Group
SB = Soil boring
(1-3') = Soil interval from 1 to 3 ft below ground surface
B = Compound was found in the blank and sample
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
mg/Kg = milligrams per kilogram
RL = Reporting limit
MDL = Method detection limit

**Table 2**
**Groundwater Analytical Data**
**Phase 2 ESA**
**Millennium Forms**
**550 E Centralia St, Elkhorn, WI**

| Constituent | Enforcement Standard | Preventive Action Limit | TB01 | TRG TW-1 | TRG TW-2 | TRG TW-3 |
|---|---|---|---|---|---|---|
| | | | 01/15/2021 | 01/15/2021 | 01/22/2021 | 01/22/2021 |
| **Volatiles (ug/L)** | | | | | | |
| 1,1,1,2-Tetrachloroethane | 70 | 7 | < 0.46 | < 0.46 | < 0.46 | < 0.46 |
| 1,1,1-Trichloroethane | 200 | 40 | < 0.38 | < 0.38 | < 0.38 | < 0.38 |
| 1,1,2,2-Tetrachloroethane | 0.2 | 0.02 | < 0.40 | < 0.40 | < 0.40 | < 0.40 |
| 1,1,2-Trichloroethane | 5 | 0.5 | < 0.35 | < 0.35 | < 0.35 | < 0.35 |
| 1,1-Dichloroethane | 850 | 85 | < 0.41 | < 0.41 | < 0.41 | < 0.41 |
| 1,1-Dichloroethene | 7 | 0.7 | < 0.39 | < 0.39 | < 0.39 | < 0.39 |
| 1,1-Dichloropropene | NE | NE | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| 1,2,3-Trichlorobenzene | NE | NE | < 0.46 | < 0.46 | < 0.46 | < 0.46 |
| 1,2,3-Trichloropropane | 60 | 12 | < 0.41 | < 0.41 | < 0.41 | < 0.41 |
| 1,2,4-Trichlorobenzene | 70 | 14 | < 0.34 | < 0.34 | < 0.34 | < 0.34 |
| 1,2,4-Trimethylbenzene | See Reg | See Reg | < 0.36 | < 0.36 | < 0.36 | < 0.36 |
| 1,2-Dibromo-3-Chloropropane | 0.2 | 0.02 | < 2.0 | < 2.0 | < 2.0 | < 2.0 |
| 1,2-Dibromoethane | 0.05 | 0.005 | < 0.39 | < 0.39 | < 0.39 | < 0.39 |
| 1,2-Dichlorobenzene | 600 | 60 | < 0.33 | < 0.33 | < 0.33 | < 0.33 |
| 1,2-Dichloroethane | 5 | 0.5 | < 0.39 | < 0.39 | < 0.39 | < 0.39 |
| 1,2-Dichloropropane | 5 | 0.5 | < 0.43 | < 0.43 | < 0.43 | < 0.43 |
| 1,3,5-Trimethylbenzene | See Reg | See Reg | < 0.25 | < 0.25 | < 0.25 | < 0.25 |
| 1,3-Dichlorobenzene | 600 | 120 | < 0.40 | < 0.40 | < 0.40 | < 0.40 |
| 1,3-Dichloropropane | NE | NE | < 0.36 | < 0.36 | < 0.36 | < 0.36 |
| 1,4-Dichlorobenzene | 75 | 15 | < 0.36 | **0.47 J** | < 0.36 | < 0.36 |
| 2,2-Dichloropropane | NE | NE | < 0.44 | < 0.44 | < 0.44 | < 0.44 |
| 2-Chlorotoluene | NE | NE | < 0.31 | < 0.31 | < 0.31 | < 0.31 |
| 4-Chlorotoluene | NE | NE | < 0.35 | < 0.35 | < 0.35 | < 0.35 |
| Benzene | 5 | 0.5 | < 0.15 | < 0.15 | < 0.15 | < 0.15 |
| Bromobenzene | NE | NE | < 0.36 | < 0.36 | < 0.36 | < 0.36 |
| Bromochloromethane | NE | NE | < 0.43 | < 0.43 | < 0.43 | < 0.43 |
| Bromodichloromethane | 0.6 | 0.06 | < 0.37 | < 0.37 | < 0.37 | < 0.37 |
| Bromoform | 4.4 | 0.44 | < 0.48 | < 0.48 | < 0.48 | < 0.48 |
| Bromomethane | 10 | 1 | < 0.80 | < 0.80 | < 0.80 | < 0.80 |
| Carbon tetrachloride | 5 | 0.5 | < 0.38 | < 0.38 | < 0.38 | < 0.38 |
| Chlorobenzene | 100 | 20 | < 0.39 | < 0.39 | < 0.39 | < 0.39 |
| Chloroethane | 400 | 80 | < 0.51 | < 0.51 | < 0.51 | < 0.51 |
| Chloroform | 6 | 0.6 | < 0.37 | < 0.37 | < 0.37 | < 0.37 |
| Chloromethane | 30 | 3 | < 0.32 | < 0.32 | < 0.32 | < 0.32 |
| cis-1,2-Dichloroethene | 70 | 7 | < 0.41 | < 0.41 | **1.4** | **1.7** |
| cis-1,3-Dichloropropene | NE | NE | < 0.42 | < 0.42 | < 0.42 | < 0.42 |
| Dibromochloromethane | 60 | 6 | < 0.49 | < 0.49 | < 0.49 | < 0.49 |
| Dibromomethane | NE | NE | < 0.27 | < 0.27 | < 0.27 | < 0.27 |
| Dichlorodifluoromethane | 1000 | 200 | < 0.67 | < 0.67 | < 0.67 | < 0.67 |
| Ethylbenzene | 700 | 140 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| Hexachlorobutadiene | NE | NE | < 0.45 | < 0.45 | < 0.45 | < 0.45 |
| Isopropyl ether | NE | NE | < 0.28 | < 0.28 | < 0.28 | < 0.28 |
| Isopropylbenzene | NE | NE | < 0.39 | < 0.39 | < 0.39 | < 0.39 |
| Methyl tert-butyl ether | 60 | 12 | < 0.39 | < 0.39 | < 0.39 | < 0.39 |
| Methylene Chloride | 5 | 0.5 | < 1.6 | < 1.6 | < 1.6 | < 1.6 |
| Naphthalene | 100 | 10 | < 0.34 | < 0.34 | < 0.34 | < 0.34 |
| n-Butylbenzene | NE | NE | < 0.39 | < 0.39 | < 0.39 | < 0.39 |
| N-Propylbenzene | NE | NE | < 0.41 | < 0.41 | < 0.41 | < 0.41 |
| p-Isopropyltoluene | NE | NE | < 0.36 | < 0.36 | < 0.36 | < 0.36 |
| sec-Butylbenzene | NE | NE | < 0.40 | < 0.40 | < 0.40 | < 0.40 |
| Styrene | 100 | 10 | < 0.39 | < 0.39 | < 0.39 | < 0.39 |
| tert-Butylbenzene | NE | NE | < 0.40 | < 0.40 | < 0.40 | < 0.40 |
| Tetrachloroethene | 5 | 0.5 | < 0.37 | < 0.37 | < 0.37 | < 0.37 |
| Toluene | 800 | 160 | < 0.15 | < 0.15 | < 0.15 | < 0.15 |
| trans-1,2-Dichloroethene | 100 | 20 | < 0.35 | < 0.35 | < 0.35 | < 0.35 |
| trans-1,3-Dichloropropene | NE | NE | < 0.36 | < 0.36 | < 0.36 | < 0.36 |
| Trichloroethene | 5 | 0.5 | < 0.16 | < 0.16 | < 0.16 | < 0.16 |
| Trichlorofluoromethane | 3490 | 698 | < 0.43 | < 0.43 | < 0.43 | < 0.43 |
| Vinyl chloride | 0.2 | 0.02 | < 0.20 | < 0.20 | **1.3** | **2.0** |
| Xylenes, Total | 2000 | 400 | < 0.22 | < 0.22 | < 0.22 | < 0.22 |

**Table 2**
**Groundwater Analytical Data**
**Phase 2 ESA**
**Millennium Forms**
**550 E Centralia St, Elkhorn, WI**

| Constituent | Enforcement Standard | Preventive Action Limit | TB01 | TRG TW-1 | TRG TW-2 | TRG TW-3 |
|---|---|---|---|---|---|---|
| | | | 01/15/2021 | 01/15/2021 | 01/22/2021 | 01/22/2021 |
| **Semivolatiles (ug/L)** | | | | | | |
| 1-Methylnaphthalene | NE | NE | NS | < 0.32 | < 0.31 | < 0.30 |
| 2-Methylnaphthalene | NE | NE | NS | < 0.070 | < 0.067 | < 0.065 |
| Acenaphthene | NE | NE | NS | < 0.33 | < 0.32 | < 0.31 |
| Acenaphthylene | NE | NE | NS | < 0.29 | < 0.27 | < 0.27 |
| Anthracene | 3000 | 600 | NS | < 0.36 | < 0.34 | < 0.33 |
| Benzo[a]anthracene | NE | NE | NS | < 0.061 | < 0.058 | < 0.057 |
| Benzo[a]pyrene | 0.2 | 0.02 | NS | < 0.11 | < 0.10 | < 0.099 |
| Benzo[b]fluoranthene | 0.2 | 0.02 | NS | < 0.087 | < 0.082 | < 0.081 |
| Benzo[g,h,i]perylene | NE | NE | NS | < 0.40 | < 0.38 | < 0.37 |
| Benzo[k]fluoranthene | NE | NE | NS | < 0.069 | < 0.065 | < 0.064 |
| Chrysene | 0.2 | 0.02 | NS | < 0.073 | < 0.070 | < 0.068 |
| Dibenz(a,h)anthracene | NE | NE | NS | < 0.055 | < 0.052 | < 0.051 |
| Fluoranthene | 400 | 80 | NS | < 0.49 | < 0.46 | < 0.45 |
| Fluorene | 400 | 80 | NS | < 0.26 | < 0.25 | < 0.24 |
| Indeno[1,2,3-cd]pyrene | NE | NE | NS | < 0.081 | < 0.076 | < 0.075 |
| Naphthalene | 100 | 10 | NS | < 0.33 | < 0.32 | < 0.31 |
| Phenanthrene | NE | NE | NS | < 0.32 | < 0.31 | < 0.30 |
| Pyrene | 250 | 50 | NS | < 0.46 | < 0.44 | < 0.43 |
| **Metals (ug/L)** | | | | | | |
| Arsenic | 10 | 1 | NS | **2.2** | **0.85 J** | **1.0** |
| Barium | 2000 | 400 | NS | **110** | **37** | **63** |
| Cadmium | 5 | 0.5 | NS | < 0.17 | < 0.17 | < 0.17 |
| Chromium | 100 | 10 | NS | **9.5** | **11** | **280** |
| Lead | 15 | 1.5 | NS | **3.0** | < 0.19 | **0.71** |
| Mercury | 2 | 0.2 | NS | < 0.098 | < 0.098 | < 0.098 |
| Selenium | 50 | 10 | NS | < 0.98 | < 0.98 | < 0.98 |
| Silver | 50 | 10 | NS | < 0.12 | < 0.12 | < 0.12 |
| **Wet Chemistry (SU)** | | | | | | |
| pH | NE | NE | NS | **7.4 HF** | **9.9 HF** | **8.0 HF** |
| **Wet Chemistry (ug/L)** | | | | | | |
| Chromium, hexavalent | NE | NE | NS | < 0.23 | **12** | **390 F1** |

**Notes:**
NE = Not Established
NS = Not Sampled
< = Less than the detection limit
**Bold = detected concentration**
Blue indicates exceedance of NR 140 Preventive Action Limit
Yellow indicates exceedance of NR 140 Enforcment Standard
TRG = The Reese Group
TW = Temporary well
TB = Trip blank
HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
F1 = MS and/or MSD recovery exceeds control limits
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
MDL = Method detection limit
RL = Reporting limit
MS = Matrix spike
MSD = Matrix spike duplicate

**Table 3**
**Groundwater Field Form**
**Phase 2 ESA Millennium Forms**
**550 E Centralia St, Elkhorn, WI**

| Sample Location Identification: | TRG TW-1 | TRG TW-2 | TRG TW-3 |
|---|---|---|---|
| Date of Level | 1/15/2021 | 1/22/2021 | 1/22/2021 |
| Depth Reference Point (e.g., top of riser) | Ground Surface | Ground Surface | Ground Surface |
| Measured Depth to Water (ft.) | 3.28 | 6.65 | 4.25 |
| Measured Well Depth (ft.) | 13.62 | 17.73 | 14.30 |
| Purging/Sampling Device(s) | Peristaltic Pump | Peristaltic Pump | Peristaltic Pump |
| Target Purge Volume (gallons) | 1.68 | 1.80 | 1.64 |
| Date Purging Completed | 1/15/2021 | 1/22/2021 | 1/22/2021 |
| Volume Purged (gallons) | 1.5 | 2.0 | 2.0 |
| Did Well Purge Dry? (Y or N) | Y | N | N |
| Date Sample Withdrawn | 1/15/2021 | 1/22/2021 | 1/22/2021 |
| Time Sample Withdrawn | 14:00 | 14:30 | 15:00 |
| Sampled By | LKK | LKK | LKK |
| Color | Clear | Brown | Brown |
| Odor | None | None | None |
| Turbidity (Low, Med, Turbid, Highly Turbid) | Low | Medium | Medium |
| Field Temperature (degrees Celsius) | NA | 16.0 | 15.68 |
| Dissolved Oxygen (mg/L) | NA | 3.69 | 5.17 |
| Specific Conductivity (uS/cm) | NA | 868 | 804 |
| pH (Standard Units) | 7.4 | 9.9 | 8.0 |
| Oxidation-Reduction Potential (mV) | NA | 190.5 | -240.9 |
| Other Field Comments | Some parameters not measured in field. Low water recovery. | | |

Notes:
MW = monitoring well
mg/L = milligrams per liter
NA = not applicable
TW = temporary well
TRG = The Reese Group
mV = millivolts
uS/cm = microsiemens per centimeter
Y = yes
N = no
ft = foot or feet

**FIGURES**

**Figure 1 – Project Location Map**
**Figure 2 – Detailed Site Map**
**Figure 3 – Soil Analytical Results**
**Figure 4 – Groundwater Analytical Results**

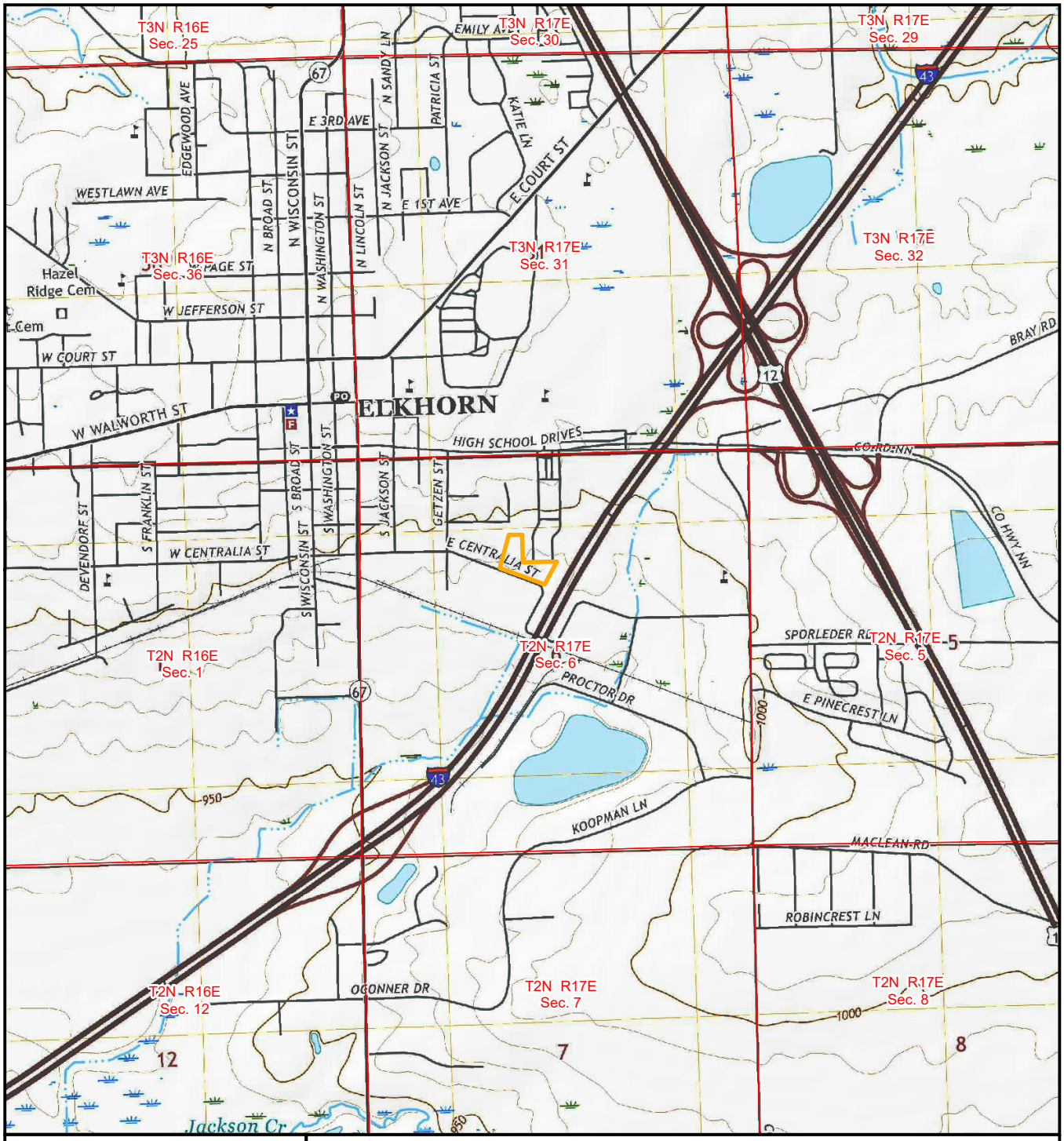



**Figure 1 - Project Location Map**

**550 E Centralia St.**
**Elkhorn, Wisconsin**

Site Boundary
Section

1:24,000

*Source: Elkhorn, WI 2018*
*USGS 7.5' series topographic map*

0 0.5 1 Miles

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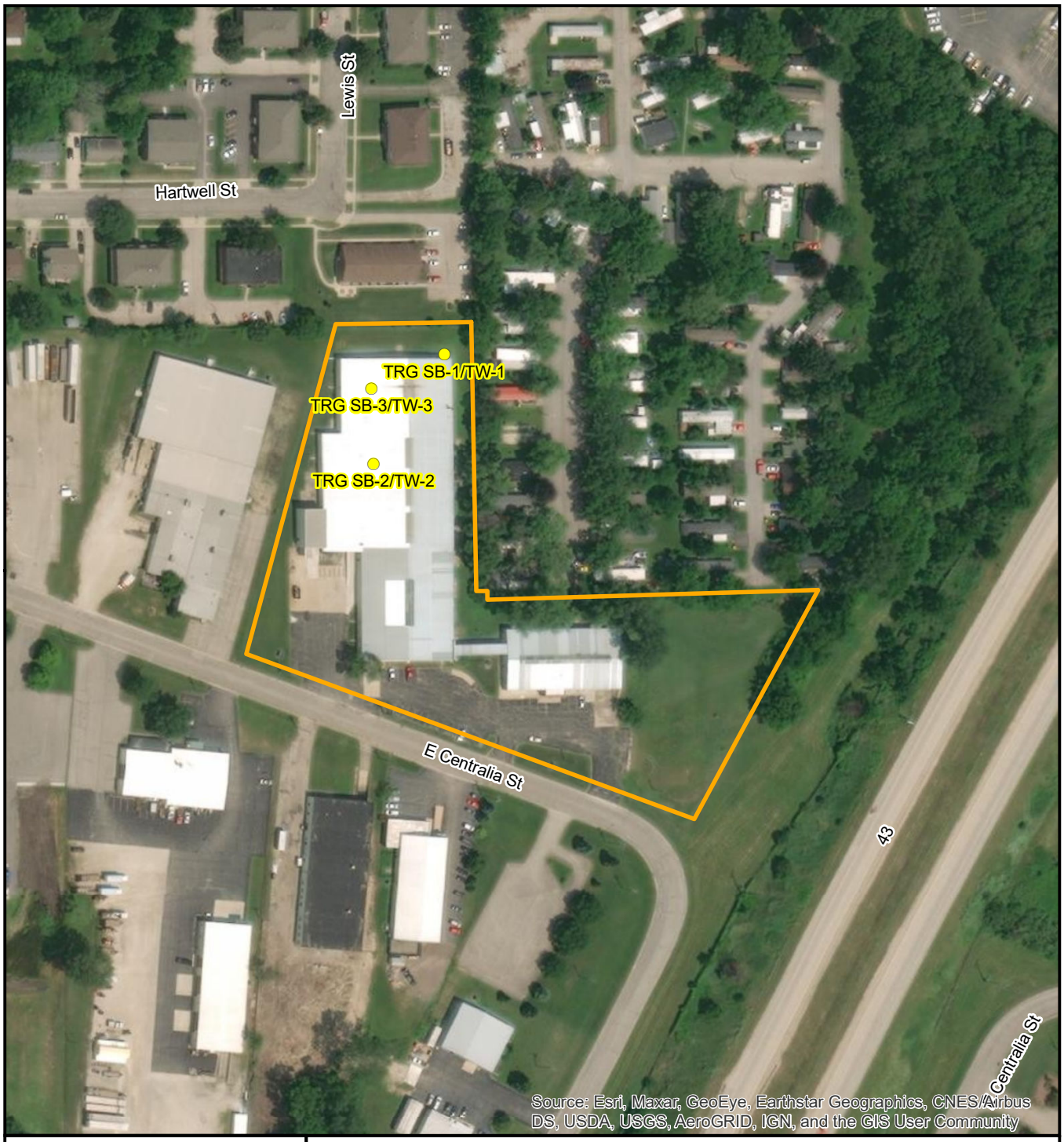



**Figure 2 - Detailed Site Map**

**550 E Centralia St.**
**Elkhorn, Wisconsin**

Soil Boring/Temporary Well

Project Area

1:2,400

0 100 200 Feet

N W E S

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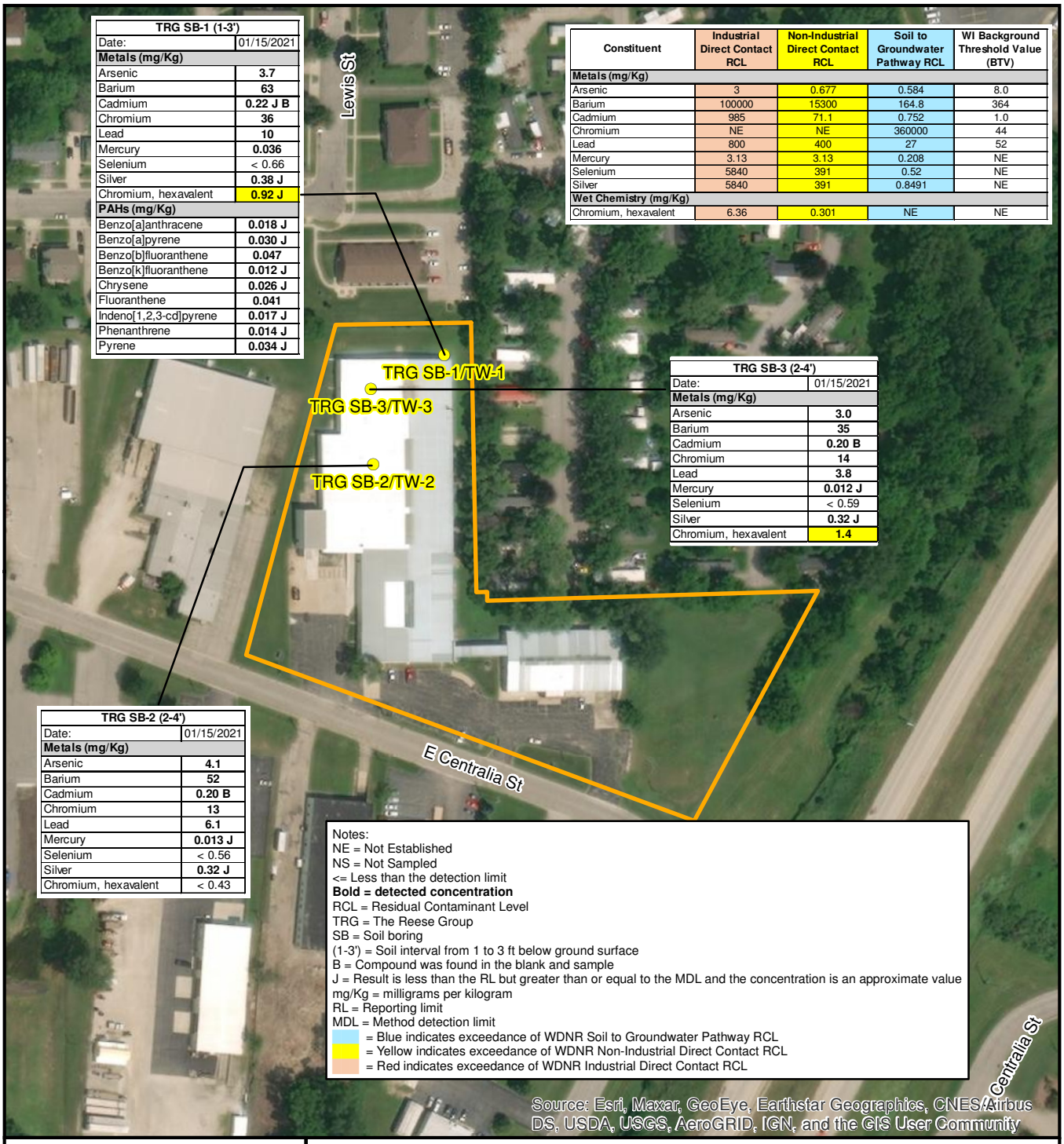


| TRG SB-1 (1-3') | |
|---|---|
| Date: | 01/15/2021 |
| **Metals (mg/Kg)** | |
| Arsenic | **3.7** |
| Barium | **63** |
| Cadmium | **0.22 J B** |
| Chromium | **36** |
| Lead | **10** |
| Mercury | **0.036** |
| Selenium | < 0.66 |
| Silver | **0.38 J** |
| Chromium, hexavalent | **0.92 J** |
| **PAHs (mg/Kg)** | |
| Benzo[a]anthracene | **0.018 J** |
| Benzo[a]pyrene | **0.030 J** |
| Benzo[b]fluoranthene | **0.047** |
| Benzo[k]fluoranthene | **0.012 J** |
| Chrysene | **0.026 J** |
| Fluoranthene | **0.041** |
| Indeno[1,2,3-cd]pyrene | **0.017 J** |
| Phenanthrene | **0.014 J** |
| Pyrene | **0.034 J** |

| Constituent | Industrial Direct Contact RCL | Non-Industrial Direct Contact RCL | Soil to Groundwater Pathway RCL | WI Background Threshold Value (BTV) |
|---|---|---|---|---|
| **Metals (mg/Kg)** | | | | |
| Arsenic | 3 | 0.677 | 0.584 | 8.0 |
| Barium | 100000 | 15300 | 164.8 | 364 |
| Cadmium | 985 | 71.1 | 0.752 | 1.0 |
| Chromium | NE | NE | 360000 | 44 |
| Lead | 800 | 400 | 27 | 52 |
| Mercury | 3.13 | 3.13 | 0.208 | NE |
| Selenium | 5840 | 391 | 0.52 | NE |
| Silver | 5840 | 391 | 0.8491 | NE |
| **Wet Chemistry (mg/Kg)** | | | | |
| Chromium, hexavalent | 6.36 | 0.301 | NE | NE |

| TRG SB-3 (2-4') | |
|---|---|
| Date: | 01/15/2021 |
| **Metals (mg/Kg)** | |
| Arsenic | **3.0** |
| Barium | **35** |
| Cadmium | **0.20 B** |
| Chromium | **14** |
| Lead | **3.8** |
| Mercury | **0.012 J** |
| Selenium | < 0.59 |
| Silver | **0.32 J** |
| Chromium, hexavalent | **1.4** |

| TRG SB-2 (2-4') | |
|---|---|
| Date: | 01/15/2021 |
| **Metals (mg/Kg)** | |
| Arsenic | **4.1** |
| Barium | **52** |
| Cadmium | **0.20 B** |
| Chromium | **13** |
| Lead | **6.1** |
| Mercury | **0.013 J** |
| Selenium | < 0.56 |
| Silver | **0.32 J** |
| Chromium, hexavalent | < 0.43 |

Notes:
NE = Not Established
NS = Not Sampled
<= Less than the detection limit
**Bold = detected concentration**
RCL = Residual Contaminant Level
TRG = The Reese Group
SB = Soil boring
(1-3') = Soil interval from 1 to 3 ft below ground surface
B = Compound was found in the blank and sample
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
mg/Kg = milligrams per kilogram
RL = Reporting limit
MDL = Method detection limit
= Blue indicates exceedance of WDNR Soil to Groundwater Pathway RCL
= Yellow indicates exceedance of WDNR Non-Industrial Direct Contact RCL
= Red indicates exceedance of WDNR Industrial Direct Contact RCL


# Figure 3 - Soil Analytical Results

## 550 E Centralia St.
## Elkhorn, Wisconsin

Soil Boring/Temporary Well
Project Area

1:2,400

0 100 200 Feet

N W E S

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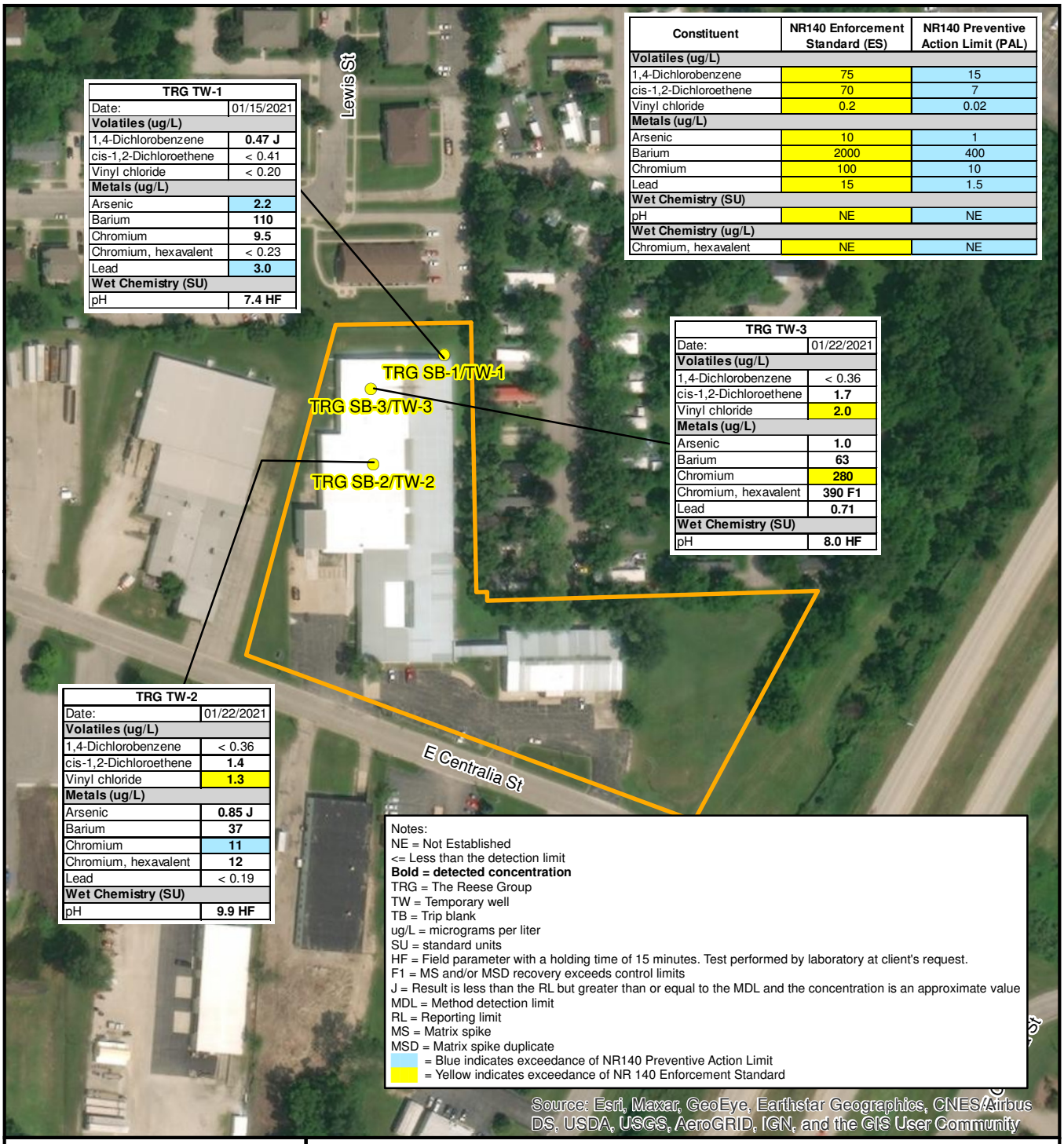


| TRG TW-1 | |
|---|---|
| Date: | 01/15/2021 |
| **Volatiles (ug/L)** | |
| 1,4-Dichlorobenzene | **0.47 J** |
| cis-1,2-Dichloroethene | < 0.41 |
| Vinyl chloride | < 0.20 |
| **Metals (ug/L)** | |
| Arsenic | **2.2** |
| Barium | **110** |
| Chromium | **9.5** |
| Chromium, hexavalent | < 0.23 |
| Lead | **3.0** |
| **Wet Chemistry (SU)** | |
| pH | **7.4 HF** |

| Constituent | NR140 Enforcement Standard (ES) | NR140 Preventive Action Limit (PAL) |
|---|---|---|
| **Volatiles (ug/L)** | | |
| 1,4-Dichlorobenzene | 75 | 15 |
| cis-1,2-Dichloroethene | 70 | 7 |
| Vinyl chloride | 0.2 | 0.02 |
| **Metals (ug/L)** | | |
| Arsenic | 10 | 1 |
| Barium | 2000 | 400 |
| Chromium | 100 | 10 |
| Lead | 15 | 1.5 |
| **Wet Chemistry (SU)** | | |
| pH | NE | NE |
| **Wet Chemistry (ug/L)** | | |
| Chromium, hexavalent | NE | NE |

| TRG TW-3 | |
|---|---|
| Date: | 01/22/2021 |
| **Volatiles (ug/L)** | |
| 1,4-Dichlorobenzene | < 0.36 |
| cis-1,2-Dichloroethene | **1.7** |
| Vinyl chloride | **2.0** |
| **Metals (ug/L)** | |
| Arsenic | **1.0** |
| Barium | **63** |
| Chromium | **280** |
| Chromium, hexavalent | **390 F1** |
| Lead | **0.71** |
| **Wet Chemistry (SU)** | |
| pH | **8.0 HF** |

| TRG TW-2 | |
|---|---|
| Date: | 01/22/2021 |
| **Volatiles (ug/L)** | |
| 1,4-Dichlorobenzene | < 0.36 |
| cis-1,2-Dichloroethene | **1.4** |
| Vinyl chloride | **1.3** |
| **Metals (ug/L)** | |
| Arsenic | **0.85 J** |
| Barium | **37** |
| Chromium | **11** |
| Chromium, hexavalent | **12** |
| Lead | < 0.19 |
| **Wet Chemistry (SU)** | |
| pH | **9.9 HF** |

Notes:
NE = Not Established
<= Less than the detection limit
**Bold = detected concentration**
TRG = The Reese Group
TW = Temporary well
TB = Trip blank
ug/L = micrograms per liter
SU = standard units
HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
F1 = MS and/or MSD recovery exceeds control limits
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
MDL = Method detection limit
RL = Reporting limit
MS = Matrix spike
MSD = Matrix spike duplicate
= Blue indicates exceedance of NR140 Preventive Action Limit
= Yellow indicates exceedance of NR 140 Enforcement Standard


# Figure 4 - Groundwater Analytical Results

## 550 E Centralia St.
## Elkhorn, Wisconsin

Soil Boring/Temporary Well

Project Area

1:2,400

0 100 200 Feet

N W E S

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Environment, Compliance, Construction

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**Appendices**

**Appendix A – WDNR Soil Boring Logs and Well/Drillhole/Borehole Abandonment Forms**
**Appendix B – TestAmerica Laboratory Analytical Reports**
**Appendix C – Photographic Documentation of Soil and Groundwater Sampling**

State of Wisconsin
Department of Natural Resources

**SOIL BORING LOG INFORMATION**
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment [x] Other ☐ _____



| | | | |
|---|---|---|---|
| Facility/Project Name: Millennium Forms | License/Permit/Monitoring Number | Boring Number: TRG SB-1 | |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>First Name: Gage Last Name: Kapugi<br>Firm: On-Site Environmental Services, Inc. | Date Drilling Started: 1/15/2021 | Date Drilling Completed: 1/15/2021 | Drilling Method: Geoprobe |
| WI Unique Well No. _ _ _ _ _ _ _ | DNR Well ID No. _ _ _ _ | Well Name: TRG TW-1 | Final Static Water Level: _____ Feet MSL |
| Surface Elevation: _____ Feet MSL | Borehole Diameter: 2 inches | | |
| Local Grid Origin ☐ (estimated: ☐ ) or Boring Location x<br>State Plane _____ N, _____ E<br>SW 1/4 of NW 1/4 of Section 6, T 2 N, R 17 E | Lat ° ' "<br>Long ° ' " | Local Grid Location<br>☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W | |
| Facility ID | County: WALWORTH | County Code: 65 | Civil Town/City/ or Village: Elkhorn |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth in Feet (Below ground surface) | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties: Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 60/60 | | 0 | 0.0 - 1.0 Topsoil, dark brown silt with gravel, grass, and roots. | TO | | | 0.0 | | | | | | |
| | | | 1 | 1.0 - 3.5 Light to medium brown silty sand with gravel, moist. | ML | | | 1.0 | | | | | | (1-3') interval submitted to lab for soil sample |
| | | | 2 | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | |
| | | | | 3.5 - 5.0 Light brown sand with silt and gravel, wet at 5 ft bgs. | SM | | | 0.9 | | | | | | |
| | | | 4 | | | | | | | | | | | |
| 2 | 60/60 | | 5 | 5.0 - 9.0 Light brown sand with silt, wet. | SM | | | 0.1 | | | | | | |
| | | | 6 | | | | | | | | | | | |
| | | | 7 | | | | | | | | | | | |
| | | | 8 | | | | | | | | | | | |
| | | | 9 | 9.0 - 10.0 Light brown and gray sand with silt, wet. | SM | | | 0.0 | | | | | | |
| 3 | 60/60 | | 10 | 10.0 - 13.0 Light brown sand with silt and gravel, wet. | SM | | | 0.0 | | | | | | |
| | | | 11 | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: The Reese Group, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Facility/Project Name: Millennium Forms
Boring No. : TRG SB-1

License/Project/Monitoring No. :
WI Unique Well No. :



| Sample: Number and Type | Sample: Length Att. & Recovered (in) | Blow Counts | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties: Compressive Strength | Soil Properties: Moisture Content | Soil Properties: Liquid Limit | Soil Properties: Plasticity Index | Soil Properties: P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 11 | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | |
| | | | 13 | **13.0 - 13.5 Gravel seam.** | **GP** | | | **0.0** | | | | | | |
| | | | | **13.5 - 15.0 Light brown and gray clay with small gravel** | **CL** | | | **0.0** | | | | | | |
| | | | 14 | | | | | | | | | | | |
| | | | 15 | End of boring at 15 ft bgs. Temporary well installed at approximately 14.5 ft bgs. | | | | | | | | | | |

State of Wisconsin
Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment [x] Other ☐ _____



| | | |
|---|---|---|
| Facility/Project Name: Millennium Forms | License/Permit/Monitoring Number: | Boring Number: TRG SB-2 |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>First Name: Gage Last Name: Kapugi<br>Firm: On-Site Environmental Services, Inc. | Date Drilling Started: 1/15/2021 (m m / d d / y y y y) | Date Drilling Completed: 1/15/2021 (m m / d d / y y y y) |
| Drilling Method: Geoprobe | | |
| WI Unique Well No.: _ _ _ _ _ _ _ | DNR Well ID No.: _ _ _ _ | Well Name: TRG TW-2 |
| Final Static Water Level: _____ Feet MSL | Surface Elevation: _____ Feet MSL | Borehole Diameter: 2 inches |
| Local Grid Origin ☐ (estimated: ☐ ) or Boring Location x<br>State Plane _____ N, _____ E<br>SW 1/4 of NW 1/4 of Section 6, T 2 N, R 17 E | Lat ° ' "<br>Long ° ' " | Local Grid Location<br>☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |
| Facility ID | County: WALWORTH | County Code: 65 |
| Civil Town/City/ or Village: Elkhorn | | |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth in Feet (Below ground surface) | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties: Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50/60 | | 0 | 0.0 - 0.5 Concrete floor. | CO | | | 0.0 | | | | | | |
| | | | | 0.5 - 1.0 Gravel. | GP | | | 0.0 | | | | | | |
| | | | 1 | 1.0 - 2.0 Light brown silt with sand. | ML | | | 0.2 | | | | | | |
| | | | 2 | 2.0 - 2.5 Dark brown clay. | CL | | | 0.2 | | | | | | |
| | | | | 2.5 - 5.0 Light brown silty sand with gravel. | SM | | | 0.8 | | | | | | 2-4' bgs interval submitted to lab for soil sample |
| | | | 3 | | | | | | | | | | | |
| | | | 4 | | | | | | | | | | | |
| 2 | 48/60 | | 5 | 5.0 - 7.0 Light brown silty sand with gravel, moist. | SM | | | 0.1 | | | | | | |
| | | | 6 | | | | | | | | | | | |
| | | | 7 | 7.0 - 9.0 Light brown silty sand with gravel, wet. | SM | | | 0.0 | | | | | | |
| | | | 8 | | | | | | | | | | | |
| | | | 9 | 9.0 - 10.0 Light brown and gray silty sand with gravel, wet. | SM | | | 0.0 | | | | | | |
| 3 | 40/60 | | 10 | 10.0 - 15.0 Light brown silty sand with gravel, moist to wet. | SM | | | 0.0 | | | | | | |
| | | | 11 | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

| Signature | Firm |
|---|---|
| | The Reese Group, LLC |

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Facility/Project Name: Millennium Forms
Boring No. : TRG SB-2

License/Project/Monitoring No. :
WI Unique Well No. :



| Sample | | | | | | | | | Soil Properties | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | U S C S | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
| 4 | 44/60 | | 15 | **15.0 - 19.0 Light brown/tan silty gravel, wet.** | GM | | | 0.0 | | | | | | |
| | | | 19 | **19.0 - 19.1 Refusal around 19' bgs. Large chunks of rock.** | | | | | | | | | | |
| | | | | End of boring at 19.1 ft bgs due to refusal. Temporary well installed at approximately 18.5 ft bgs. | | | | | | | | | | |

State of Wisconsin
Department of Natural Resources

**SOIL BORING LOG INFORMATION**
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment [x] Other ☐ _____



| | | |
|---|---|---|
| Facility/Project Name: Millennium Forms | License/Permit/Monitoring Number: | Boring Number: TRG SB-3 |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>First Name: Gage Last Name: Kapugi<br>Firm: On-Site Environmental Services, Inc. | Date Drilling Started: 1/15/2021 | Date Drilling Completed: 1/15/2021 |
| Drilling Method: Geoprobe | | |
| WI Unique Well No.: | DNR Well ID No.: | Well Name: TRG TW-3 |
| Final Static Water Level: _____ Feet MSL | Surface Elevation: _____ Feet MSL | Borehole Diameter: 2 inches |
| Local Grid Origin ☐ (estimated: ☐ ) or Boring Location x<br>State Plane _____ N, _____ E<br>NW 1/4 of NW 1/4 of Section 6, T 2 N, R 17 E | Lat ° ' "<br>Long ° ' " | Local Grid Location<br>☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |
| Facility ID | County: WALWORTH | County Code: 65 |
| Civil Town/City/ or Village: Elkhorn | | |

| Sample Number and Type | Sample Length Att. & Recovered (in) | Blow Counts | Depth in Feet (Below ground surface) | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties: Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 40/60 | | 0 | 0.0 - 0.5 Concrete floor. | CO | | | 0.0 | | | | | | |
| | | | 0.5 | 0.5 - 1.0 Dark brown silt with clay and gravel. | GM | | | 0.5 | | | | | | |
| | | | 1 | 1.0 - 1.5 Light brown silt with gravel. | GM | | | 0.5 | | | | | | |
| | | | 1.5 | 1.5 - 2.5 Dark brown granular sand with small rounded pebbles. | SW | | | 0.7 | | | | | | 2-4' bgs interval submitted to lab for soil sample |
| | | | 2 | | | | | | | | | | | |
| | | | 2.5 | 2.5 - 5.0 Light brown silty sand with gravel, wet at 4.5 ft bgs. | SM | | | 0.1 | | | | | | |
| | | | 3 | | | | | | | | | | | |
| | | | 4 | | | | | | | | | | | |
| 2 | 50/60 | | 5 | 5.0 - 10.0 Light brown silty sand with gravel, wet. | SM | | | 0.0 | | | | | | |
| | | | 6 | | | | | | | | | | | |
| | | | 7 | | | | | | | | | | | |
| | | | 8 | | | | | | | | | | | |
| | | | 9 | | | | | | | | | | | |
| 3 | 50/60 | | 10 | 10.0 - 14.0 Light brown and gray silty sand with gravel, wet. | SM | | | 0.0 | | | | | | |
| | | | 11 | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: The Reese Group, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Facility/Project Name: Millennium Forms
Boring No. : TRG SB-3

License/Project/Monitoring No. :
WI Unique Well No. :



| Sample: Number and Type | Sample: Length Att. & Recovered (in) | Blow Counts | Depth in Feet | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties: Compressive Strength | Soil Properties: Moisture Content | Soil Properties: Liquid Limit | Soil Properties: Plasticity Index | Soil Properties: P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 11 | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | |
| | | | 13 | | | | | | | | | | | |
| | | | 14 | 14.0 - 15.0 Gray silty sand with gravel, wet. | SM | | | 0.0 | | | | | | |
| | | | 15 | End of boring at 15 ft bgs. Temporary well installed at approximately 14.5 ft bgs. | | | | | | | | | | |

eurofins | Environment Testing America

# ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-193856-1
Client Project/Site: Millennium Tile

For:
The Reese Group, LLC
1433 North Water Street, Suite 400
Milwaukee, Wisconsin 53202

Attn: Christine Reese

*Authorized for release by:*
*2/1/2021 1:18:34 PM*

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

# Table of Contents

# Case Narrative

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

## Job ID: 500-193856-1

### Laboratory: Eurofins TestAmerica, Chicago

**Narrative**

**Job Narrative**
**500-193856-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 1/16/2021 9:45 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.5º C.

**GC/MS VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**GC/MS Semi VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

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

# Detection Summary

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

## Client Sample ID: TRG SB-1 (1-3') — Lab Sample ID: 500-193856-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]anthracene | 0.018 | J | 0.039 | 0.0053 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[a]pyrene | 0.030 | J | 0.039 | 0.0076 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[b]fluoranthene | 0.047 | | 0.039 | 0.0085 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo[k]fluoranthene | 0.012 | J | 0.039 | 0.012 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 0.026 | J | 0.039 | 0.011 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 0.041 | | 0.039 | 0.0073 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.017 | J | 0.039 | 0.010 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 0.014 | J | 0.039 | 0.0055 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 0.034 | J | 0.039 | 0.0078 | mg/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 3.7 | | 1.1 | 0.39 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 63 | | 1.1 | 0.13 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 0.22 | J B | 0.23 | 0.041 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 36 | | 1.1 | 0.56 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 10 | | 0.56 | 0.26 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.38 | J | 0.56 | 0.15 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.036 | | 0.019 | 0.0063 | mg/Kg | 1 | ☼ | 7471A | Total/NA |
| Chromium, hexavalent | 0.92 | J | 1.2 | 0.45 | mg/Kg | 1 | ☼ | 7196A | Total/NA |

## Client Sample ID: TRG SB-2 (2-4') — Lab Sample ID: 500-193856-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 4.1 | | 0.94 | 0.32 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 52 | | 0.94 | 0.11 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 0.20 | B | 0.19 | 0.034 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 13 | | 0.94 | 0.47 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 6.1 | | 0.47 | 0.22 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.32 | J | 0.47 | 0.12 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.013 | J | 0.017 | 0.0056 | mg/Kg | 1 | ☼ | 7471A | Total/NA |

## Client Sample ID: TRG SB-3 (2-4') — Lab Sample ID: 500-193856-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 3.0 | | 1.0 | 0.34 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 35 | | 1.0 | 0.11 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 0.20 | B | 0.20 | 0.036 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 14 | | 1.0 | 0.50 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 3.8 | | 0.50 | 0.23 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.32 | J | 0.50 | 0.13 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.012 | J | 0.018 | 0.0060 | mg/Kg | 1 | ☼ | 7471A | Total/NA |
| Chromium, hexavalent | 1.4 | | 1.1 | 0.42 | mg/Kg | 1 | ☼ | 7196A | Total/NA |

## Client Sample ID: TRG TW-1 — Lab Sample ID: 500-193856-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.47 | J | 1.0 | 0.36 | ug/L | 1 | | 8260B | Total/NA |
| Arsenic | 2.2 | | 1.0 | 0.23 | ug/L | 1 | | 6020A | Dissolved |
| Barium | 110 | | 2.5 | 0.73 | ug/L | 1 | | 6020A | Dissolved |
| Chromium | 9.5 | | 5.0 | 1.1 | ug/L | 1 | | 6020A | Dissolved |
| Lead | 3.0 | | 0.50 | 0.19 | ug/L | 1 | | 6020A | Dissolved |
| pH | 7.4 | HF | 0.2 | 0.2 | SU | 1 | | SM 4500 H+ B | Total/NA |

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

## Client Sample ID: TB01

## Lab Sample ID: 500-193856-5

No Detections.

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL CHI |
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL CHI |
| 6010C | Metals (ICP) | SW846 | TAL CHI |
| 6020A | Metals (ICP/MS) | SW846 | TAL CHI |
| 7470A | Mercury (CVAA) | SW846 | TAL CHI |
| 7471A | Mercury (CVAA) | SW846 | TAL CHI |
| 218.6 | Chromium, Hexavalent (Ion Chromatography) | EPA | TAL CHI |
| 7196A | Chromium, Hexavalent | SW846 | TAL CHI |
| Moisture | Percent Moisture | EPA | TAL CHI |
| SM 4500 H+ B | pH | SM | TAL CHI |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | TAL CHI |
| 3050B | Preparation, Metals | SW846 | TAL CHI |
| 3060A | Alkaline Digestion (Chromium, Hexavalent) | SW846 | TAL CHI |
| 3510C | Liquid-Liquid Extraction (Separatory Funnel) | SW846 | TAL CHI |
| 3541 | Automated Soxhlet Extraction | SW846 | TAL CHI |
| 5030B | Purge and Trap | SW846 | TAL CHI |
| 5035 | Closed System Purge and Trap | SW846 | TAL CHI |
| 7470A | Preparation, Mercury | SW846 | TAL CHI |
| 7471A | Preparation, Mercury | SW846 | TAL CHI |
| FILTRATION | Sample Filtration | None | TAL CHI |

**Protocol References:**

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Sample Summary

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 500-193856-1 | TRG SB-1 (1-3') | Solid | 01/15/21 12:30 | 01/16/21 09:45 | |
| 500-193856-2 | TRG SB-2 (2-4') | Solid | 01/15/21 13:00 | 01/16/21 09:45 | |
| 500-193856-3 | TRG SB-3 (2-4') | Solid | 01/15/21 13:30 | 01/16/21 09:45 | |
| 500-193856-4 | TRG TW-1 | Water | 01/15/21 14:00 | 01/16/21 09:45 | |
| 500-193856-5 | TB01 | Water | 01/15/21 14:30 | 01/16/21 09:45 | |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

**Client Sample ID: TRG SB-1 (1-3')**
**Date Collected: 01/15/21 12:30**
**Date Received: 01/16/21 09:45**

**Lab Sample ID: 500-193856-1**
**Matrix: Solid**
**Percent Solids: 84.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.010 | | 0.017 | 0.010 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Bromobenzene | <0.024 | | 0.069 | 0.024 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Bromochloromethane | <0.029 | | 0.069 | 0.029 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Bromodichloromethane | <0.025 | | 0.069 | 0.025 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Bromoform | <0.033 | | 0.069 | 0.033 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Bromomethane | <0.055 | | 0.21 | 0.055 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Carbon tetrachloride | <0.026 | | 0.069 | 0.026 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Chlorobenzene | <0.026 | | 0.069 | 0.026 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Chloroethane | <0.035 | | 0.069 | 0.035 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Chloroform | <0.025 | | 0.14 | 0.025 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Chloromethane | <0.022 | | 0.069 | 0.022 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 2-Chlorotoluene | <0.022 | | 0.069 | 0.022 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 4-Chlorotoluene | <0.024 | | 0.069 | 0.024 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| cis-1,2-Dichloroethene | <0.028 | | 0.069 | 0.028 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| cis-1,3-Dichloropropene | <0.028 | | 0.069 | 0.028 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Dibromochloromethane | <0.033 | | 0.069 | 0.033 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,2-Dibromo-3-Chloropropane | <0.14 | | 0.34 | 0.14 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,2-Dibromoethane | <0.026 | | 0.069 | 0.026 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Dibromomethane | <0.018 | | 0.069 | 0.018 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,2-Dichlorobenzene | <0.023 | | 0.069 | 0.023 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,3-Dichlorobenzene | <0.027 | | 0.069 | 0.027 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,4-Dichlorobenzene | <0.025 | | 0.069 | 0.025 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Dichlorodifluoromethane | <0.046 | | 0.21 | 0.046 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,1-Dichloroethane | <0.028 | | 0.069 | 0.028 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,2-Dichloroethane | <0.027 | | 0.069 | 0.027 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,1-Dichloroethene | <0.027 | | 0.069 | 0.027 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,2-Dichloropropane | <0.029 | | 0.069 | 0.029 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,3-Dichloropropane | <0.025 | | 0.069 | 0.025 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 2,2-Dichloropropane | <0.030 | | 0.069 | 0.030 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,1-Dichloropropene | <0.020 | | 0.069 | 0.020 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Ethylbenzene | <0.013 | | 0.017 | 0.013 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Hexachlorobutadiene | <0.031 | | 0.069 | 0.031 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Isopropylbenzene | <0.026 | | 0.069 | 0.026 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Isopropyl ether | <0.019 | | 0.069 | 0.019 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Methylene Chloride | <0.11 | | 0.34 | 0.11 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Methyl tert-butyl ether | <0.027 | | 0.069 | 0.027 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Naphthalene | <0.023 | | 0.069 | 0.023 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| n-Butylbenzene | <0.027 | | 0.069 | 0.027 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| N-Propylbenzene | <0.028 | | 0.069 | 0.028 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| p-Isopropyltoluene | <0.025 | | 0.069 | 0.025 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| sec-Butylbenzene | <0.027 | | 0.069 | 0.027 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Styrene | <0.026 | | 0.069 | 0.026 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| tert-Butylbenzene | <0.027 | | 0.069 | 0.027 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,1,1,2-Tetrachloroethane | <0.032 | | 0.069 | 0.032 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,1,2,2-Tetrachloroethane | <0.027 | | 0.069 | 0.027 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Tetrachloroethene | <0.025 | | 0.069 | 0.025 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Toluene | <0.010 | | 0.017 | 0.010 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| trans-1,2-Dichloroethene | <0.024 | | 0.069 | 0.024 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| trans-1,3-Dichloropropene | <0.025 | | 0.069 | 0.025 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |

## Client Sample ID: TRG SB-1 (1-3')

**Date Collected: 01/15/21 12:30**
**Date Received: 01/16/21 09:45**

## Lab Sample ID: 500-193856-1

**Matrix: Solid**
**Percent Solids: 84.6**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | <0.031 | | 0.069 | 0.031 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,2,4-Trichlorobenzene | <0.023 | | 0.069 | 0.023 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,1,1-Trichloroethane | <0.026 | | 0.069 | 0.026 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,1,2-Trichloroethane | <0.024 | | 0.069 | 0.024 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Trichloroethene | <0.011 | | 0.034 | 0.011 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Trichlorofluoromethane | <0.029 | | 0.069 | 0.029 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,2,3-Trichloropropane | <0.028 | | 0.14 | 0.028 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,2,4-Trimethylbenzene | <0.025 | | 0.069 | 0.025 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| 1,3,5-Trimethylbenzene | <0.026 | | 0.069 | 0.026 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Vinyl chloride | <0.018 | | 0.069 | 0.018 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |
| Xylenes, Total | <0.015 | | 0.034 | 0.015 | mg/Kg | ☼ | 01/15/21 12:30 | 01/21/21 11:28 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *89* | | *72 - 124* | *01/15/21 12:30* | *01/21/21 11:28* | *50* |
| *Dibromofluoromethane (Surr)* | *84* | | *75 - 120* | *01/15/21 12:30* | *01/21/21 11:28* | *50* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *75 - 126* | *01/15/21 12:30* | *01/21/21 11:28* | *50* |
| *Toluene-d8 (Surr)* | *94* | | *75 - 120* | *01/15/21 12:30* | *01/21/21 11:28* | *50* |

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | <0.0070 | | 0.039 | 0.0070 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| Acenaphthylene | <0.0052 | | 0.039 | 0.0052 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| Anthracene | <0.0065 | | 0.039 | 0.0065 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| **Benzo[a]anthracene** | **0.018** | **J** | 0.039 | 0.0053 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| **Benzo[a]pyrene** | **0.030** | **J** | 0.039 | 0.0076 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| **Benzo[b]fluoranthene** | **0.047** | | 0.039 | 0.0085 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| Benzo[g,h,i]perylene | <0.013 | | 0.039 | 0.013 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| **Benzo[k]fluoranthene** | **0.012** | **J** | 0.039 | 0.012 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| **Chrysene** | **0.026** | **J** | 0.039 | 0.011 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| Dibenz(a,h)anthracene | <0.0076 | | 0.039 | 0.0076 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| **Fluoranthene** | **0.041** | | 0.039 | 0.0073 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| Fluorene | <0.0055 | | 0.039 | 0.0055 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **0.017** | **J** | 0.039 | 0.010 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| 1-Methylnaphthalene | <0.0096 | | 0.079 | 0.0096 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| 2-Methylnaphthalene | <0.0072 | | 0.079 | 0.0072 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| Naphthalene | <0.0060 | | 0.039 | 0.0060 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| **Phenanthrene** | **0.014** | **J** | 0.039 | 0.0055 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |
| **Pyrene** | **0.034** | **J** | 0.039 | 0.0078 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *92* | | *43 - 145* | *01/25/21 07:50* | *01/25/21 22:59* | *1* |
| *Nitrobenzene-d5 (Surr)* | *94* | | *37 - 147* | *01/25/21 07:50* | *01/25/21 22:59* | *1* |
| *Terphenyl-d14 (Surr)* | *89* | | *42 - 157* | *01/25/21 07:50* | *01/25/21 22:59* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **3.7** | | 1.1 | 0.39 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 10:19 | 1 |
| **Barium** | **63** | | 1.1 | 0.13 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 10:19 | 1 |
| **Cadmium** | **0.22** | **J B** | 0.23 | 0.041 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 10:19 | 1 |
| **Chromium** | **36** | | 1.1 | 0.56 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 10:19 | 1 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

**Client Sample ID: TRG SB-1 (1-3')**
**Date Collected: 01/15/21 12:30**
**Date Received: 01/16/21 09:45**

**Lab Sample ID: 500-193856-1**
**Matrix: Solid**
**Percent Solids: 84.6**

### Method: 6010C - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | 10 | | 0.56 | 0.26 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 10:19 | 1 |
| Selenium | <0.66 | | 1.1 | 0.66 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 10:19 | 1 |
| Silver | 0.38 | J | 0.56 | 0.15 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 10:19 | 1 |

### Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.036 | | 0.019 | 0.0063 | mg/Kg | ☼ | 01/25/21 12:50 | 01/26/21 08:52 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | 0.92 | J | 1.2 | 0.45 | mg/Kg | ☼ | 01/19/21 13:07 | 01/21/21 14:56 | 1 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

**Client Sample ID: TRG SB-2 (2-4')**
**Date Collected: 01/15/21 13:00**
**Date Received: 01/16/21 09:45**

**Lab Sample ID: 500-193856-2**
**Matrix: Solid**
**Percent Solids: 89.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0090 | | 0.015 | 0.0090 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Bromobenzene | <0.022 | | 0.062 | 0.022 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Bromochloromethane | <0.026 | | 0.062 | 0.026 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Bromodichloromethane | <0.023 | | 0.062 | 0.023 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Bromoform | <0.030 | | 0.062 | 0.030 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Bromomethane | <0.049 | | 0.19 | 0.049 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Carbon tetrachloride | <0.024 | | 0.062 | 0.024 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Chlorobenzene | <0.024 | | 0.062 | 0.024 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Chloroethane | <0.031 | | 0.062 | 0.031 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Chloroform | <0.023 | | 0.12 | 0.023 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Chloromethane | <0.020 | | 0.062 | 0.020 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 2-Chlorotoluene | <0.019 | | 0.062 | 0.019 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 4-Chlorotoluene | <0.022 | | 0.062 | 0.022 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| cis-1,2-Dichloroethene | <0.025 | | 0.062 | 0.025 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| cis-1,3-Dichloropropene | <0.026 | | 0.062 | 0.026 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Dibromochloromethane | <0.030 | | 0.062 | 0.030 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,2-Dibromo-3-Chloropropane | <0.12 | | 0.31 | 0.12 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,2-Dibromoethane | <0.024 | | 0.062 | 0.024 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Dibromomethane | <0.017 | | 0.062 | 0.017 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,2-Dichlorobenzene | <0.021 | | 0.062 | 0.021 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,3-Dichlorobenzene | <0.025 | | 0.062 | 0.025 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,4-Dichlorobenzene | <0.023 | | 0.062 | 0.023 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Dichlorodifluoromethane | <0.042 | | 0.19 | 0.042 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,1-Dichloroethane | <0.025 | | 0.062 | 0.025 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,2-Dichloroethane | <0.024 | | 0.062 | 0.024 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,1-Dichloroethene | <0.024 | | 0.062 | 0.024 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,2-Dichloropropane | <0.026 | | 0.062 | 0.026 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,3-Dichloropropane | <0.022 | | 0.062 | 0.022 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 2,2-Dichloropropane | <0.027 | | 0.062 | 0.027 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,1-Dichloropropene | <0.018 | | 0.062 | 0.018 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Ethylbenzene | <0.011 | | 0.015 | 0.011 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Hexachlorobutadiene | <0.028 | | 0.062 | 0.028 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Isopropylbenzene | <0.024 | | 0.062 | 0.024 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Isopropyl ether | <0.017 | | 0.062 | 0.017 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Methylene Chloride | <0.10 | | 0.31 | 0.10 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Methyl tert-butyl ether | <0.024 | | 0.062 | 0.024 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Naphthalene | <0.021 | | 0.062 | 0.021 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| n-Butylbenzene | <0.024 | | 0.062 | 0.024 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| N-Propylbenzene | <0.026 | | 0.062 | 0.026 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| p-Isopropyltoluene | <0.022 | | 0.062 | 0.022 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| sec-Butylbenzene | <0.025 | | 0.062 | 0.025 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Styrene | <0.024 | | 0.062 | 0.024 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| tert-Butylbenzene | <0.025 | | 0.062 | 0.025 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,1,1,2-Tetrachloroethane | <0.029 | | 0.062 | 0.029 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,1,2,2-Tetrachloroethane | <0.025 | | 0.062 | 0.025 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Tetrachloroethene | <0.023 | | 0.062 | 0.023 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Toluene | <0.0091 | | 0.015 | 0.0091 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| trans-1,2-Dichloroethene | <0.022 | | 0.062 | 0.022 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| trans-1,3-Dichloropropene | <0.022 | | 0.062 | 0.022 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

## Client Sample ID: TRG SB-2 (2-4')

**Date Collected: 01/15/21 13:00**
**Date Received: 01/16/21 09:45**

## Lab Sample ID: 500-193856-2

**Matrix: Solid**
**Percent Solids: 89.5**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | <0.028 | | 0.062 | 0.028 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,2,4-Trichlorobenzene | <0.021 | | 0.062 | 0.021 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,1,1-Trichloroethane | <0.023 | | 0.062 | 0.023 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,1,2-Trichloroethane | <0.022 | | 0.062 | 0.022 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Trichloroethene | <0.010 | | 0.031 | 0.010 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Trichlorofluoromethane | <0.026 | | 0.062 | 0.026 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,2,3-Trichloropropane | <0.026 | | 0.12 | 0.026 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,2,4-Trimethylbenzene | <0.022 | | 0.062 | 0.022 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| 1,3,5-Trimethylbenzene | <0.023 | | 0.062 | 0.023 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Vinyl chloride | <0.016 | | 0.062 | 0.016 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |
| Xylenes, Total | <0.014 | | 0.031 | 0.014 | mg/Kg | ☼ | 01/15/21 13:00 | 01/21/21 11:55 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *89* | | *72 - 124* | *01/15/21 13:00* | *01/21/21 11:55* | *50* |
| *Dibromofluoromethane (Surr)* | *83* | | *75 - 120* | *01/15/21 13:00* | *01/21/21 11:55* | *50* |
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *75 - 126* | *01/15/21 13:00* | *01/21/21 11:55* | *50* |
| *Toluene-d8 (Surr)* | *96* | | *75 - 120* | *01/15/21 13:00* | *01/21/21 11:55* | *50* |

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | <0.0066 | | 0.037 | 0.0066 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Acenaphthylene | <0.0049 | | 0.037 | 0.0049 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Anthracene | <0.0062 | | 0.037 | 0.0062 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Benzo[a]anthracene | <0.0050 | | 0.037 | 0.0050 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Benzo[a]pyrene | <0.0072 | | 0.037 | 0.0072 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Benzo[b]fluoranthene | <0.0080 | | 0.037 | 0.0080 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Benzo[g,h,i]perylene | <0.012 | | 0.037 | 0.012 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Benzo[k]fluoranthene | <0.011 | | 0.037 | 0.011 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Chrysene | <0.010 | | 0.037 | 0.010 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Dibenz(a,h)anthracene | <0.0071 | | 0.037 | 0.0071 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Fluoranthene | <0.0069 | | 0.037 | 0.0069 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Fluorene | <0.0052 | | 0.037 | 0.0052 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.0096 | | 0.037 | 0.0096 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| 1-Methylnaphthalene | <0.0090 | | 0.075 | 0.0090 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| 2-Methylnaphthalene | <0.0068 | | 0.075 | 0.0068 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Naphthalene | <0.0057 | | 0.037 | 0.0057 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Phenanthrene | <0.0052 | | 0.037 | 0.0052 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |
| Pyrene | <0.0073 | | 0.037 | 0.0073 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 21:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *94* | | *43 - 145* | *01/25/21 07:50* | *01/25/21 21:51* | *1* |
| *Nitrobenzene-d5 (Surr)* | *98* | | *37 - 147* | *01/25/21 07:50* | *01/25/21 21:51* | *1* |
| *Terphenyl-d14 (Surr)* | *89* | | *42 - 157* | *01/25/21 07:50* | *01/25/21 21:51* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.1** | | 0.94 | 0.32 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 10:22 | 1 |
| **Barium** | **52** | | 0.94 | 0.11 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 10:22 | 1 |
| **Cadmium** | **0.20** | **B** | 0.19 | 0.034 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 10:22 | 1 |
| **Chromium** | **13** | | 0.94 | 0.47 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 10:22 | 1 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

**Client Sample ID: TRG SB-2 (2-4')**
**Date Collected: 01/15/21 13:00**
**Date Received: 01/16/21 09:45**

**Lab Sample ID: 500-193856-2**
**Matrix: Solid**
**Percent Solids: 89.5**

### Method: 6010C - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **6.1** | | 0.47 | 0.22 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 10:22 | 1 |
| Selenium | <0.56 | | 0.94 | 0.56 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 10:22 | 1 |
| **Silver** | **0.32** | **J** | 0.47 | 0.12 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 10:22 | 1 |

### Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.013** | **J** | 0.017 | 0.0056 | mg/Kg | ☼ | 01/25/21 12:50 | 01/26/21 08:54 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | <0.43 | | 1.1 | 0.43 | mg/Kg | ☼ | 01/19/21 13:07 | 01/21/21 14:56 | 1 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

**Client Sample ID: TRG SB-3 (2-4')**
**Date Collected: 01/15/21 13:30**
**Date Received: 01/16/21 09:45**

**Lab Sample ID: 500-193856-3**
**Matrix: Solid**
**Percent Solids: 91.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0086 | | 0.015 | 0.0086 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Bromobenzene | <0.021 | | 0.059 | 0.021 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Bromochloromethane | <0.025 | | 0.059 | 0.025 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Bromodichloromethane | <0.022 | | 0.059 | 0.022 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Bromoform | <0.029 | | 0.059 | 0.029 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Bromomethane | <0.047 | | 0.18 | 0.047 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Carbon tetrachloride | <0.023 | | 0.059 | 0.023 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Chlorobenzene | <0.023 | | 0.059 | 0.023 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Chloroethane | <0.030 | | 0.059 | 0.030 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Chloroform | <0.022 | | 0.12 | 0.022 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Chloromethane | <0.019 | | 0.059 | 0.019 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 2-Chlorotoluene | <0.019 | | 0.059 | 0.019 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 4-Chlorotoluene | <0.021 | | 0.059 | 0.021 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| cis-1,2-Dichloroethene | <0.024 | | 0.059 | 0.024 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| cis-1,3-Dichloropropene | <0.025 | | 0.059 | 0.025 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Dibromochloromethane | <0.029 | | 0.059 | 0.029 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,2-Dibromo-3-Chloropropane | <0.12 | | 0.30 | 0.12 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,2-Dibromoethane | <0.023 | | 0.059 | 0.023 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Dibromomethane | <0.016 | | 0.059 | 0.016 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,2-Dichlorobenzene | <0.020 | | 0.059 | 0.020 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,3-Dichlorobenzene | <0.024 | | 0.059 | 0.024 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,4-Dichlorobenzene | <0.021 | | 0.059 | 0.021 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Dichlorodifluoromethane | <0.040 | | 0.18 | 0.040 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,1-Dichloroethane | <0.024 | | 0.059 | 0.024 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,2-Dichloroethane | <0.023 | | 0.059 | 0.023 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,1-Dichloroethene | <0.023 | | 0.059 | 0.023 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,2-Dichloropropane | <0.025 | | 0.059 | 0.025 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,3-Dichloropropane | <0.021 | | 0.059 | 0.021 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 2,2-Dichloropropane | <0.026 | | 0.059 | 0.026 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,1-Dichloropropene | <0.018 | | 0.059 | 0.018 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Ethylbenzene | <0.011 | | 0.015 | 0.011 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Hexachlorobutadiene | <0.026 | | 0.059 | 0.026 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Isopropylbenzene | <0.023 | | 0.059 | 0.023 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Isopropyl ether | <0.016 | | 0.059 | 0.016 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Methylene Chloride | <0.096 | | 0.30 | 0.096 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Methyl tert-butyl ether | <0.023 | | 0.059 | 0.023 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Naphthalene | <0.020 | | 0.059 | 0.020 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| n-Butylbenzene | <0.023 | | 0.059 | 0.023 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| N-Propylbenzene | <0.024 | | 0.059 | 0.024 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| p-Isopropyltoluene | <0.021 | | 0.059 | 0.021 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| sec-Butylbenzene | <0.024 | | 0.059 | 0.024 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Styrene | <0.023 | | 0.059 | 0.023 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| tert-Butylbenzene | <0.024 | | 0.059 | 0.024 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,1,1,2-Tetrachloroethane | <0.027 | | 0.059 | 0.027 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,1,2,2-Tetrachloroethane | <0.024 | | 0.059 | 0.024 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Tetrachloroethene | <0.022 | | 0.059 | 0.022 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Toluene | <0.0087 | | 0.015 | 0.0087 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| trans-1,2-Dichloroethene | <0.021 | | 0.059 | 0.021 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| trans-1,3-Dichloropropene | <0.021 | | 0.059 | 0.021 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |

## Client Sample ID: TRG SB-3 (2-4')

**Date Collected: 01/15/21 13:30**
**Date Received: 01/16/21 09:45**

## Lab Sample ID: 500-193856-3

**Matrix: Solid**
**Percent Solids: 91.3**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | <0.027 | | 0.059 | 0.027 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,2,4-Trichlorobenzene | <0.020 | | 0.059 | 0.020 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,1,1-Trichloroethane | <0.022 | | 0.059 | 0.022 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,1,2-Trichloroethane | <0.021 | | 0.059 | 0.021 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Trichloroethene | <0.0097 | | 0.030 | 0.0097 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Trichlorofluoromethane | <0.025 | | 0.059 | 0.025 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,2,3-Trichloropropane | <0.024 | | 0.12 | 0.024 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,2,4-Trimethylbenzene | <0.021 | | 0.059 | 0.021 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| 1,3,5-Trimethylbenzene | <0.022 | | 0.059 | 0.022 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Vinyl chloride | <0.015 | | 0.059 | 0.015 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |
| Xylenes, Total | <0.013 | | 0.030 | 0.013 | mg/Kg | ☼ | 01/15/21 13:30 | 01/21/21 12:22 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *89* | | *72 - 124* | *01/15/21 13:30* | *01/21/21 12:22* | *50* |
| *Dibromofluoromethane (Surr)* | *83* | | *75 - 120* | *01/15/21 13:30* | *01/21/21 12:22* | *50* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *75 - 126* | *01/15/21 13:30* | *01/21/21 12:22* | *50* |
| *Toluene-d8 (Surr)* | *95* | | *75 - 120* | *01/15/21 13:30* | *01/21/21 12:22* | *50* |

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | <0.0064 | | 0.035 | 0.0064 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Acenaphthylene | <0.0047 | | 0.035 | 0.0047 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Anthracene | <0.0059 | | 0.035 | 0.0059 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Benzo[a]anthracene | <0.0048 | | 0.035 | 0.0048 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Benzo[a]pyrene | <0.0069 | | 0.035 | 0.0069 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Benzo[b]fluoranthene | <0.0076 | | 0.035 | 0.0076 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Benzo[g,h,i]perylene | <0.011 | | 0.035 | 0.011 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Benzo[k]fluoranthene | <0.010 | | 0.035 | 0.010 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Chrysene | <0.0097 | | 0.035 | 0.0097 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Dibenz(a,h)anthracene | <0.0068 | | 0.035 | 0.0068 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Fluoranthene | <0.0066 | | 0.035 | 0.0066 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Fluorene | <0.0050 | | 0.035 | 0.0050 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.0092 | | 0.035 | 0.0092 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| 1-Methylnaphthalene | <0.0087 | | 0.071 | 0.0087 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| 2-Methylnaphthalene | <0.0065 | | 0.071 | 0.0065 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Naphthalene | <0.0055 | | 0.035 | 0.0055 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Phenanthrene | <0.0049 | | 0.035 | 0.0049 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |
| Pyrene | <0.0070 | | 0.035 | 0.0070 | mg/Kg | ☼ | 01/25/21 07:50 | 01/25/21 22:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *96* | | *43 - 145* | *01/25/21 07:50* | *01/25/21 22:14* | *1* |
| *Nitrobenzene-d5 (Surr)* | *98* | | *37 - 147* | *01/25/21 07:50* | *01/25/21 22:14* | *1* |
| *Terphenyl-d14 (Surr)* | *90* | | *42 - 157* | *01/25/21 07:50* | *01/25/21 22:14* | *1* |

### Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **3.0** | | 1.0 | 0.34 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 11:09 | 1 |
| **Barium** | **35** | | 1.0 | 0.11 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 11:09 | 1 |
| **Cadmium** | **0.20** | **B** | 0.20 | 0.036 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 11:09 | 1 |
| **Chromium** | **14** | | 1.0 | 0.50 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 11:09 | 1 |

## Client Sample ID: TRG SB-3 (2-4')

**Date Collected: 01/15/21 13:30**
**Date Received: 01/16/21 09:45**

## Lab Sample ID: 500-193856-3

**Matrix: Solid**
**Percent Solids: 91.3**

### Method: 6010C - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **3.8** | | 0.50 | 0.23 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 11:09 | 1 |
| Selenium | <0.59 | | 1.0 | 0.59 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 11:09 | 1 |
| **Silver** | **0.32** | **J** | 0.50 | 0.13 | mg/Kg | ☼ | 01/25/21 17:09 | 01/28/21 11:09 | 1 |

### Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.012** | **J** | 0.018 | 0.0060 | mg/Kg | ☼ | 01/25/21 12:50 | 01/26/21 08:56 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chromium, hexavalent** | **1.4** | | 1.1 | 0.42 | mg/Kg | ☼ | 01/19/21 13:07 | 01/21/21 14:56 | 1 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

**Client Sample ID: TRG TW-1**
**Date Collected: 01/15/21 14:00**
**Date Received: 01/16/21 09:45**

**Lab Sample ID: 500-193856-4**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.15 | | 0.50 | 0.15 | ug/L | | | 01/20/21 17:39 | 1 |
| Bromobenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 17:39 | 1 |
| Bromochloromethane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/20/21 17:39 | 1 |
| Bromodichloromethane | <0.37 | | 1.0 | 0.37 | ug/L | | | 01/20/21 17:39 | 1 |
| Bromoform | <0.48 | | 1.0 | 0.48 | ug/L | | | 01/20/21 17:39 | 1 |
| Bromomethane | <0.80 | | 3.0 | 0.80 | ug/L | | | 01/20/21 17:39 | 1 |
| Carbon tetrachloride | <0.38 | | 1.0 | 0.38 | ug/L | | | 01/20/21 17:39 | 1 |
| Chlorobenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 17:39 | 1 |
| Chloroethane | <0.51 | F1 | 1.0 | 0.51 | ug/L | | | 01/20/21 17:39 | 1 |
| Chloroform | <0.37 | | 2.0 | 0.37 | ug/L | | | 01/20/21 17:39 | 1 |
| Chloromethane | <0.32 | | 1.0 | 0.32 | ug/L | | | 01/20/21 17:39 | 1 |
| 2-Chlorotoluene | <0.31 | | 1.0 | 0.31 | ug/L | | | 01/20/21 17:39 | 1 |
| 4-Chlorotoluene | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/20/21 17:39 | 1 |
| cis-1,2-Dichloroethene | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/20/21 17:39 | 1 |
| cis-1,3-Dichloropropene | <0.42 | | 1.0 | 0.42 | ug/L | | | 01/20/21 17:39 | 1 |
| Dibromochloromethane | <0.49 | | 1.0 | 0.49 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,2-Dibromo-3-Chloropropane | <2.0 | | 5.0 | 2.0 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,2-Dibromoethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 17:39 | 1 |
| Dibromomethane | <0.27 | | 1.0 | 0.27 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,2-Dichlorobenzene | <0.33 | | 1.0 | 0.33 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,3-Dichlorobenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/20/21 17:39 | 1 |
| **1,4-Dichlorobenzene** | **0.47** | **J** | 1.0 | 0.36 | ug/L | | | 01/20/21 17:39 | 1 |
| Dichlorodifluoromethane | <0.67 | | 3.0 | 0.67 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,1-Dichloroethane | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,2-Dichloroethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,1-Dichloroethene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,2-Dichloropropane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,3-Dichloropropane | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 17:39 | 1 |
| 2,2-Dichloropropane | <0.44 | | 1.0 | 0.44 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,1-Dichloropropene | <0.30 | | 1.0 | 0.30 | ug/L | | | 01/20/21 17:39 | 1 |
| Ethylbenzene | <0.18 | | 0.50 | 0.18 | ug/L | | | 01/20/21 17:39 | 1 |
| Hexachlorobutadiene | <0.45 | | 1.0 | 0.45 | ug/L | | | 01/20/21 17:39 | 1 |
| Isopropylbenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 17:39 | 1 |
| Isopropyl ether | <0.28 | | 1.0 | 0.28 | ug/L | | | 01/20/21 17:39 | 1 |
| Methylene Chloride | <1.6 | | 5.0 | 1.6 | ug/L | | | 01/20/21 17:39 | 1 |
| Methyl tert-butyl ether | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 17:39 | 1 |
| Naphthalene | <0.34 | | 1.0 | 0.34 | ug/L | | | 01/20/21 17:39 | 1 |
| n-Butylbenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 17:39 | 1 |
| N-Propylbenzene | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/20/21 17:39 | 1 |
| p-Isopropyltoluene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 17:39 | 1 |
| sec-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/20/21 17:39 | 1 |
| Styrene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 17:39 | 1 |
| tert-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.46 | | 1.0 | 0.46 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/20/21 17:39 | 1 |
| Tetrachloroethene | <0.37 | | 1.0 | 0.37 | ug/L | | | 01/20/21 17:39 | 1 |
| Toluene | <0.15 | | 0.50 | 0.15 | ug/L | | | 01/20/21 17:39 | 1 |
| trans-1,2-Dichloroethene | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/20/21 17:39 | 1 |
| trans-1,3-Dichloropropene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 17:39 | 1 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

## Client Sample ID: TRG TW-1

**Date Collected: 01/15/21 14:00**
**Date Received: 01/16/21 09:45**

## Lab Sample ID: 500-193856-4

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | <0.46 | | 1.0 | 0.46 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,2,4-Trichlorobenzene | <0.34 | | 1.0 | 0.34 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,1,1-Trichloroethane | <0.38 | | 1.0 | 0.38 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,1,2-Trichloroethane | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/20/21 17:39 | 1 |
| Trichloroethene | <0.16 | | 0.50 | 0.16 | ug/L | | | 01/20/21 17:39 | 1 |
| Trichlorofluoromethane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,2,3-Trichloropropane | <0.41 | | 2.0 | 0.41 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,2,4-Trimethylbenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 17:39 | 1 |
| 1,3,5-Trimethylbenzene | <0.25 | | 1.0 | 0.25 | ug/L | | | 01/20/21 17:39 | 1 |
| Vinyl chloride | <0.20 | | 1.0 | 0.20 | ug/L | | | 01/20/21 17:39 | 1 |
| Xylenes, Total | <0.22 | | 1.0 | 0.22 | ug/L | | | 01/20/21 17:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *72 - 124* | | *01/20/21 17:39* | *1* |
| *Dibromofluoromethane (Surr)* | *85* | | *75 - 120* | | *01/20/21 17:39* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *75 - 126* | | *01/20/21 17:39* | *1* |
| *Toluene-d8 (Surr)* | *93* | | *75 - 120* | | *01/20/21 17:39* | *1* |

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | <0.32 | | 2.2 | 0.32 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| 2-Methylnaphthalene | <0.070 | | 2.2 | 0.070 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Acenaphthene | <0.33 | | 1.1 | 0.33 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Acenaphthylene | <0.29 | | 1.1 | 0.29 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Anthracene | <0.36 | | 1.1 | 0.36 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Benzo[a]anthracene | <0.061 | | 0.22 | 0.061 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Benzo[a]pyrene | <0.11 | | 0.22 | 0.11 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Benzo[b]fluoranthene | <0.087 | | 0.22 | 0.087 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Benzo[g,h,i]perylene | <0.40 | | 1.1 | 0.40 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Benzo[k]fluoranthene | <0.069 | | 0.22 | 0.069 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Chrysene | <0.073 | | 0.22 | 0.073 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Dibenz(a,h)anthracene | <0.055 | | 0.32 | 0.055 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Fluoranthene | <0.49 | | 1.1 | 0.49 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Fluorene | <0.26 | | 1.1 | 0.26 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.081 | | 0.22 | 0.081 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Naphthalene | <0.33 | | 1.1 | 0.33 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Phenanthrene | <0.32 | | 1.1 | 0.32 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |
| Pyrene | <0.46 | | 1.1 | 0.46 | ug/L | | 01/19/21 07:57 | 01/19/21 13:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *77* | | *34 - 110* | *01/19/21 07:57* | *01/19/21 13:36* | *1* |
| *Nitrobenzene-d5 (Surr)* | *74* | | *36 - 120* | *01/19/21 07:57* | *01/19/21 13:36* | *1* |
| *Terphenyl-d14 (Surr)* | *92* | | *40 - 145* | *01/19/21 07:57* | *01/19/21 13:36* | *1* |

### Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **2.2** | | 1.0 | 0.23 | ug/L | | 01/18/21 17:45 | 01/19/21 13:50 | 1 |
| **Barium** | **110** | | 2.5 | 0.73 | ug/L | | 01/18/21 17:45 | 01/19/21 13:50 | 1 |
| Cadmium | <0.17 | | 0.50 | 0.17 | ug/L | | 01/18/21 17:45 | 01/19/21 13:50 | 1 |
| **Chromium** | **9.5** | | 5.0 | 1.1 | ug/L | | 01/18/21 17:45 | 01/19/21 13:50 | 1 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

## Client Sample ID: TRG TW-1

**Date Collected: 01/15/21 14:00**
**Date Received: 01/16/21 09:45**

## Lab Sample ID: 500-193856-4

**Matrix: Water**

### Method: 6020A - Metals (ICP/MS) - Dissolved (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **3.0** | | 0.50 | 0.19 | ug/L | | 01/18/21 17:45 | 01/19/21 13:50 | 1 |
| Selenium | <0.98 | | 2.5 | 0.98 | ug/L | | 01/18/21 17:45 | 01/19/21 13:50 | 1 |
| Silver | <0.12 | | 0.50 | 0.12 | ug/L | | 01/18/21 17:45 | 01/19/21 13:50 | 1 |

### Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.098 | | 0.20 | 0.098 | ug/L | | 01/25/21 09:40 | 01/26/21 08:40 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **pH** | **7.4** | **HF** | 0.2 | 0.2 | SU | | | 01/27/21 15:21 | 1 |

### General Chemistry - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | <0.23 | | 0.30 | 0.23 | ug/L | | | 01/29/21 08:32 | 1 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

**Client Sample ID: TB01**
**Date Collected: 01/15/21 14:30**
**Date Received: 01/16/21 09:45**

**Lab Sample ID: 500-193856-5**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.15 | | 0.50 | 0.15 | ug/L | | | 01/20/21 18:05 | 1 |
| Bromobenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 18:05 | 1 |
| Bromochloromethane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/20/21 18:05 | 1 |
| Bromodichloromethane | <0.37 | | 1.0 | 0.37 | ug/L | | | 01/20/21 18:05 | 1 |
| Bromoform | <0.48 | | 1.0 | 0.48 | ug/L | | | 01/20/21 18:05 | 1 |
| Bromomethane | <0.80 | | 3.0 | 0.80 | ug/L | | | 01/20/21 18:05 | 1 |
| Carbon tetrachloride | <0.38 | | 1.0 | 0.38 | ug/L | | | 01/20/21 18:05 | 1 |
| Chlorobenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 18:05 | 1 |
| Chloroethane | <0.51 | | 1.0 | 0.51 | ug/L | | | 01/20/21 18:05 | 1 |
| Chloroform | <0.37 | | 2.0 | 0.37 | ug/L | | | 01/20/21 18:05 | 1 |
| Chloromethane | <0.32 | | 1.0 | 0.32 | ug/L | | | 01/20/21 18:05 | 1 |
| 2-Chlorotoluene | <0.31 | | 1.0 | 0.31 | ug/L | | | 01/20/21 18:05 | 1 |
| 4-Chlorotoluene | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/20/21 18:05 | 1 |
| cis-1,2-Dichloroethene | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/20/21 18:05 | 1 |
| cis-1,3-Dichloropropene | <0.42 | | 1.0 | 0.42 | ug/L | | | 01/20/21 18:05 | 1 |
| Dibromochloromethane | <0.49 | | 1.0 | 0.49 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,2-Dibromo-3-Chloropropane | <2.0 | | 5.0 | 2.0 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,2-Dibromoethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 18:05 | 1 |
| Dibromomethane | <0.27 | | 1.0 | 0.27 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,2-Dichlorobenzene | <0.33 | | 1.0 | 0.33 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,3-Dichlorobenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,4-Dichlorobenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 18:05 | 1 |
| Dichlorodifluoromethane | <0.67 | | 3.0 | 0.67 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,1-Dichloroethane | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,2-Dichloroethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,1-Dichloroethene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,2-Dichloropropane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,3-Dichloropropane | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 18:05 | 1 |
| 2,2-Dichloropropane | <0.44 | | 1.0 | 0.44 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,1-Dichloropropene | <0.30 | | 1.0 | 0.30 | ug/L | | | 01/20/21 18:05 | 1 |
| Ethylbenzene | <0.18 | | 0.50 | 0.18 | ug/L | | | 01/20/21 18:05 | 1 |
| Hexachlorobutadiene | <0.45 | | 1.0 | 0.45 | ug/L | | | 01/20/21 18:05 | 1 |
| Isopropylbenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 18:05 | 1 |
| Isopropyl ether | <0.28 | | 1.0 | 0.28 | ug/L | | | 01/20/21 18:05 | 1 |
| Methylene Chloride | <1.6 | | 5.0 | 1.6 | ug/L | | | 01/20/21 18:05 | 1 |
| Methyl tert-butyl ether | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 18:05 | 1 |
| Naphthalene | <0.34 | | 1.0 | 0.34 | ug/L | | | 01/20/21 18:05 | 1 |
| n-Butylbenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 18:05 | 1 |
| N-Propylbenzene | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/20/21 18:05 | 1 |
| p-Isopropyltoluene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 18:05 | 1 |
| sec-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/20/21 18:05 | 1 |
| Styrene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 18:05 | 1 |
| tert-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.46 | | 1.0 | 0.46 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/20/21 18:05 | 1 |
| Tetrachloroethene | <0.37 | | 1.0 | 0.37 | ug/L | | | 01/20/21 18:05 | 1 |
| Toluene | <0.15 | | 0.50 | 0.15 | ug/L | | | 01/20/21 18:05 | 1 |
| trans-1,2-Dichloroethene | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/20/21 18:05 | 1 |
| trans-1,3-Dichloropropene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 18:05 | 1 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

**Client Sample ID: TB01**
**Date Collected: 01/15/21 14:30**
**Date Received: 01/16/21 09:45**

**Lab Sample ID: 500-193856-5**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | <0.46 | | 1.0 | 0.46 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,2,4-Trichlorobenzene | <0.34 | | 1.0 | 0.34 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,1,1-Trichloroethane | <0.38 | | 1.0 | 0.38 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,1,2-Trichloroethane | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/20/21 18:05 | 1 |
| Trichloroethene | <0.16 | | 0.50 | 0.16 | ug/L | | | 01/20/21 18:05 | 1 |
| Trichlorofluoromethane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,2,3-Trichloropropane | <0.41 | | 2.0 | 0.41 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,2,4-Trimethylbenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 18:05 | 1 |
| 1,3,5-Trimethylbenzene | <0.25 | | 1.0 | 0.25 | ug/L | | | 01/20/21 18:05 | 1 |
| Vinyl chloride | <0.20 | | 1.0 | 0.20 | ug/L | | | 01/20/21 18:05 | 1 |
| Xylenes, Total | <0.22 | | 1.0 | 0.22 | ug/L | | | 01/20/21 18:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *93* | | *72 - 124* | | *01/20/21 18:05* | *1* |
| *Dibromofluoromethane (Surr)* | *85* | | *75 - 120* | | *01/20/21 18:05* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *75 - 126* | | *01/20/21 18:05* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *75 - 120* | | *01/20/21 18:05* | *1* |

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## GC/MS VOA

### Prep Batch: 581693

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-1 | TRG SB-1 (1-3') | Total/NA | Solid | 5035 | |
| 500-193856-2 | TRG SB-2 (2-4') | Total/NA | Solid | 5035 | |
| 500-193856-3 | TRG SB-3 (2-4') | Total/NA | Solid | 5035 | |
| LB3 500-581693/19-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 500-581693/20-A | Lab Control Sample | Total/NA | Solid | 5035 | |

### Analysis Batch: 581724

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-4 | TRG TW-1 | Total/NA | Water | 8260B | |
| 500-193856-5 | TB01 | Total/NA | Water | 8260B | |
| MB 500-581724/6 | Method Blank | Total/NA | Water | 8260B | |
| LCS 500-581724/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| 500-193856-4 MS | TRG TW-1 | Total/NA | Water | 8260B | |
| 500-193856-4 MSD | TRG TW-1 | Total/NA | Water | 8260B | |

### Analysis Batch: 581753

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LB3 500-581693/19-A | Method Blank | Total/NA | Solid | 8260B | 581693 |
| MB 500-581753/7 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 500-581693/20-A | Lab Control Sample | Total/NA | Solid | 8260B | 581693 |
| LCS 500-581753/5 | Lab Control Sample | Total/NA | Solid | 8260B | |

### Analysis Batch: 581912

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-1 | TRG SB-1 (1-3') | Total/NA | Solid | 8260B | 581693 |
| 500-193856-2 | TRG SB-2 (2-4') | Total/NA | Solid | 8260B | 581693 |
| 500-193856-3 | TRG SB-3 (2-4') | Total/NA | Solid | 8260B | 581693 |
| MB 500-581912/6 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 500-581912/4 | Lab Control Sample | Total/NA | Solid | 8260B | |

## GC/MS Semi VOA

### Prep Batch: 581550

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-4 | TRG TW-1 | Total/NA | Water | 3510C | |
| MB 500-581550/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 500-581550/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 500-581550/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |

### Analysis Batch: 581610

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-4 | TRG TW-1 | Total/NA | Water | 8270D | 581550 |
| MB 500-581550/1-A | Method Blank | Total/NA | Water | 8270D | 581550 |
| LCS 500-581550/2-A | Lab Control Sample | Total/NA | Water | 8270D | 581550 |
| LCSD 500-581550/3-A | Lab Control Sample Dup | Total/NA | Water | 8270D | 581550 |

### Prep Batch: 582279

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-1 | TRG SB-1 (1-3') | Total/NA | Solid | 3541 | |
| 500-193856-2 | TRG SB-2 (2-4') | Total/NA | Solid | 3541 | |
| 500-193856-3 | TRG SB-3 (2-4') | Total/NA | Solid | 3541 | |

## GC/MS Semi VOA (Continued)

### Prep Batch: 582279 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 500-582279/1-A | Method Blank | Total/NA | Solid | 3541 | |
| LCS 500-582279/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |

### Analysis Batch: 582386

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-1 | TRG SB-1 (1-3') | Total/NA | Solid | 8270D | 582279 |
| 500-193856-2 | TRG SB-2 (2-4') | Total/NA | Solid | 8270D | 582279 |
| 500-193856-3 | TRG SB-3 (2-4') | Total/NA | Solid | 8270D | 582279 |
| MB 500-582279/1-A | Method Blank | Total/NA | Solid | 8270D | 582279 |
| LCS 500-582279/2-A | Lab Control Sample | Total/NA | Solid | 8270D | 582279 |

## Metals

### Filtration Batch: 581331

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-4 | TRG TW-1 | Dissolved | Water | FILTRATION | |
| MB 500-581331/1-B | Method Blank | Dissolved | Water | FILTRATION | |
| MB 500-581331/1-D | Method Blank | Dissolved | Water | FILTRATION | |

### Prep Batch: 581477

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-4 | TRG TW-1 | Dissolved | Water | 3005A | 581331 |
| MB 500-581331/1-B | Method Blank | Dissolved | Water | 3005A | 581331 |
| LCS 500-581477/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

### Analysis Batch: 581637

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-4 | TRG TW-1 | Dissolved | Water | 6020A | 581477 |
| MB 500-581331/1-B | Method Blank | Dissolved | Water | 6020A | 581477 |
| LCS 500-581477/2-A | Lab Control Sample | Total Recoverable | Water | 6020A | 581477 |

### Prep Batch: 582319

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-4 | TRG TW-1 | Dissolved | Water | 7470A | 581331 |
| MB 500-581331/1-D | Method Blank | Dissolved | Water | 7470A | 581331 |
| MB 500-582319/12-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 500-582319/13-A | Lab Control Sample | Total/NA | Water | 7470A | |

### Prep Batch: 582321

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-1 | TRG SB-1 (1-3') | Total/NA | Solid | 7471A | |
| 500-193856-2 | TRG SB-2 (2-4') | Total/NA | Solid | 7471A | |
| 500-193856-3 | TRG SB-3 (2-4') | Total/NA | Solid | 7471A | |
| MB 500-582321/12-A | Method Blank | Total/NA | Solid | 7471A | |
| LCS 500-582321/13-A | Lab Control Sample | Total/NA | Solid | 7471A | |

### Prep Batch: 582384

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-1 | TRG SB-1 (1-3') | Total/NA | Solid | 3050B | |
| 500-193856-2 | TRG SB-2 (2-4') | Total/NA | Solid | 3050B | |
| 500-193856-3 | TRG SB-3 (2-4') | Total/NA | Solid | 3050B | |

## Metals (Continued)

### Prep Batch: 582384 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 500-582384/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCS 500-582384/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |

### Analysis Batch: 582467

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-1 | TRG SB-1 (1-3') | Total/NA | Solid | 7471A | 582321 |
| 500-193856-2 | TRG SB-2 (2-4') | Total/NA | Solid | 7471A | 582321 |
| 500-193856-3 | TRG SB-3 (2-4') | Total/NA | Solid | 7471A | 582321 |
| MB 500-582321/12-A | Method Blank | Total/NA | Solid | 7471A | 582321 |
| LCS 500-582321/13-A | Lab Control Sample | Total/NA | Solid | 7471A | 582321 |

### Analysis Batch: 582477

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-4 | TRG TW-1 | Dissolved | Water | 7470A | 582319 |
| MB 500-581331/1-D | Method Blank | Dissolved | Water | 7470A | 582319 |
| MB 500-582319/12-A | Method Blank | Total/NA | Water | 7470A | 582319 |
| LCS 500-582319/13-A | Lab Control Sample | Total/NA | Water | 7470A | 582319 |

### Analysis Batch: 583012

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-1 | TRG SB-1 (1-3') | Total/NA | Solid | 6010C | 582384 |
| 500-193856-2 | TRG SB-2 (2-4') | Total/NA | Solid | 6010C | 582384 |
| 500-193856-3 | TRG SB-3 (2-4') | Total/NA | Solid | 6010C | 582384 |
| MB 500-582384/1-A | Method Blank | Total/NA | Solid | 6010C | 582384 |
| LCS 500-582384/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 582384 |

## General Chemistry

### Analysis Batch: 581622

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-1 | TRG SB-1 (1-3') | Total/NA | Solid | Moisture | |
| 500-193856-2 | TRG SB-2 (2-4') | Total/NA | Solid | Moisture | |
| 500-193856-3 | TRG SB-3 (2-4') | Total/NA | Solid | Moisture | |

### Prep Batch: 581626

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-1 | TRG SB-1 (1-3') | Total/NA | Solid | 3060A | |
| 500-193856-2 | TRG SB-2 (2-4') | Total/NA | Solid | 3060A | |
| 500-193856-3 | TRG SB-3 (2-4') | Total/NA | Solid | 3060A | |
| MB 500-581626/1-A | Method Blank | Total/NA | Solid | 3060A | |
| LCS 500-581626/2-A | Lab Control Sample | Total/NA | Solid | 3060A | |
| LCS 500-581626/3-A | Lab Control Sample | Total/NA | Solid | 3060A | |
| 500-193856-3 MS | TRG SB-3 (2-4') | Total/NA | Solid | 3060A | |
| 500-193856-3 MS | TRG SB-3 (2-4') | Total/NA | Solid | 3060A | |
| 500-193856-3 MSD | TRG SB-3 (2-4') | Total/NA | Solid | 3060A | |
| 500-193856-3 MSD | TRG SB-3 (2-4') | Total/NA | Solid | 3060A | |

### Analysis Batch: 582034

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-1 | TRG SB-1 (1-3') | Total/NA | Solid | 7196A | 581626 |
| 500-193856-2 | TRG SB-2 (2-4') | Total/NA | Solid | 7196A | 581626 |

## General Chemistry (Continued)

### Analysis Batch: 582034 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-3 | TRG SB-3 (2-4') | Total/NA | Solid | 7196A | 581626 |
| MB 500-581626/1-A | Method Blank | Total/NA | Solid | 7196A | 581626 |
| LCS 500-581626/2-A | Lab Control Sample | Total/NA | Solid | 7196A | 581626 |
| LCS 500-581626/3-A | Lab Control Sample | Total/NA | Solid | 7196A | 581626 |
| 500-193856-3 MS | TRG SB-3 (2-4') | Total/NA | Solid | 7196A | 581626 |
| 500-193856-3 MS | TRG SB-3 (2-4') | Total/NA | Solid | 7196A | 581626 |
| 500-193856-3 MSD | TRG SB-3 (2-4') | Total/NA | Solid | 7196A | 581626 |
| 500-193856-3 MSD | TRG SB-3 (2-4') | Total/NA | Solid | 7196A | 581626 |

### Analysis Batch: 582650

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-4 | TRG TW-1 | Total/NA | Water | SM 4500 H+ B | |
| LCS 500-582650/5 | Lab Control Sample | Total/NA | Water | SM 4500 H+ B | |
| LCSD 500-582650/6 | Lab Control Sample Dup | Total/NA | Water | SM 4500 H+ B | |
| 500-193856-4 DU | TRG TW-1 | Total/NA | Water | SM 4500 H+ B | |

### Analysis Batch: 583010

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-4 | TRG TW-1 | Dissolved | Water | 218.6 | 583050 |
| MB 500-583010/3 | Method Blank | Total/NA | Water | 218.6 | |
| LCS 500-583010/4 | Lab Control Sample | Total/NA | Water | 218.6 | |

### Filtration Batch: 583050

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-193856-4 | TRG TW-1 | Dissolved | Water | Filtration | |

# Surrogate Summary

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Matrix: Solid** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | BFB | DBFM | DCA | TOL |
| Lab Sample ID | Client Sample ID | (72-124) | (75-120) | (75-126) | (75-120) |
| 500-193856-1 | TRG SB-1 (1-3') | 89 | 84 | 100 | 94 |
| 500-193856-2 | TRG SB-2 (2-4') | 89 | 83 | 98 | 96 |
| 500-193856-3 | TRG SB-3 (2-4') | 89 | 83 | 100 | 95 |
| LB3 500-581693/19-A | Method Blank | 94 | 92 | 108 | 98 |
| LCS 500-581693/20-A | Lab Control Sample | 94 | 98 | 106 | 95 |
| LCS 500-581753/5 | Lab Control Sample | 94 | 98 | 108 | 98 |
| LCS 500-581912/4 | Lab Control Sample | 92 | 91 | 99 | 96 |
| MB 500-581753/7 | Method Blank | 100 | 96 | 108 | 99 |
| MB 500-581912/6 | Method Blank | 91 | 86 | 100 | 94 |

**Surrogate Legend**

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

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | BFB | DBFM | DCA | TOL |
| Lab Sample ID | Client Sample ID | (72-124) | (75-120) | (75-126) | (75-120) |
| 500-193856-4 | TRG TW-1 | 94 | 85 | 100 | 93 |
| 500-193856-4 MS | TRG TW-1 | 93 | 92 | 100 | 94 |
| 500-193856-4 MSD | TRG TW-1 | 94 | 93 | 102 | 94 |
| 500-193856-5 | TB01 | 93 | 85 | 99 | 94 |
| LCS 500-581724/4 | Lab Control Sample | 93 | 91 | 99 | 95 |
| MB 500-581724/6 | Method Blank | 92 | 88 | 100 | 93 |

**Surrogate Legend**

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

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Matrix: Solid** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | |
|---|---|---|---|---|
| | | FBP | NBZ | TPHL |
| Lab Sample ID | Client Sample ID | (43-145) | (37-147) | (42-157) |
| 500-193856-1 | TRG SB-1 (1-3') | 92 | 94 | 89 |
| 500-193856-2 | TRG SB-2 (2-4') | 94 | 98 | 89 |
| 500-193856-3 | TRG SB-3 (2-4') | 96 | 98 | 90 |
| LCS 500-582279/2-A | Lab Control Sample | 97 | 102 | 90 |
| MB 500-582279/1-A | Method Blank | 95 | 101 | 88 |

**Surrogate Legend**

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

# Surrogate Summary

Client: The Reese Group, LLC
Job ID: 500-193856-1
Project/Site: Millennium Tile

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | |
|---|---|---|---|---|
| | | FBP | NBZ | TPHL |
| Lab Sample ID | Client Sample ID | (34-110) | (36-120) | (40-145) |
| 500-193856-4 | TRG TW-1 | 77 | 74 | 92 |
| LCS 500-581550/2-A | Lab Control Sample | 91 | 88 | 97 |
| LCSD 500-581550/3-A | Lab Control Sample Dup | 90 | 90 | 103 |
| MB 500-581550/1-A | Method Blank | 67 | 65 | 87 |

**Surrogate Legend**

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: LB3 500-581693/19-A**
**Matrix: Solid**
**Analysis Batch: 581753**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 581693**

| Analyte | LB3 Result | LB3 Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.0073 | | 0.013 | 0.0073 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Bromobenzene | <0.018 | | 0.050 | 0.018 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Bromochloromethane | <0.021 | | 0.050 | 0.021 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Bromodichloromethane | <0.019 | | 0.050 | 0.019 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Bromoform | <0.024 | | 0.050 | 0.024 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Bromomethane | <0.040 | | 0.15 | 0.040 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Carbon tetrachloride | <0.019 | | 0.050 | 0.019 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Chlorobenzene | <0.019 | | 0.050 | 0.019 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Chloroethane | <0.025 | | 0.050 | 0.025 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Chloroform | <0.019 | | 0.10 | 0.019 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Chloromethane | <0.016 | | 0.050 | 0.016 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 2-Chlorotoluene | <0.016 | | 0.050 | 0.016 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 4-Chlorotoluene | <0.018 | | 0.050 | 0.018 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| cis-1,2-Dichloroethene | <0.020 | | 0.050 | 0.020 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| cis-1,3-Dichloropropene | <0.021 | | 0.050 | 0.021 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Dibromochloromethane | <0.024 | | 0.050 | 0.024 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,2-Dibromo-3-Chloropropane | <0.10 | | 0.25 | 0.10 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,2-Dibromoethane | <0.019 | | 0.050 | 0.019 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Dibromomethane | <0.014 | | 0.050 | 0.014 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,2-Dichlorobenzene | <0.017 | | 0.050 | 0.017 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,3-Dichlorobenzene | <0.020 | | 0.050 | 0.020 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,4-Dichlorobenzene | <0.018 | | 0.050 | 0.018 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Dichlorodifluoromethane | <0.034 | | 0.15 | 0.034 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,1-Dichloroethane | <0.021 | | 0.050 | 0.021 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,2-Dichloroethane | <0.020 | | 0.050 | 0.020 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,1-Dichloroethene | <0.020 | | 0.050 | 0.020 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,2-Dichloropropane | <0.021 | | 0.050 | 0.021 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,3-Dichloropropane | <0.018 | | 0.050 | 0.018 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 2,2-Dichloropropane | <0.022 | | 0.050 | 0.022 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,1-Dichloropropene | <0.015 | | 0.050 | 0.015 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Ethylbenzene | <0.0092 | | 0.013 | 0.0092 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Hexachlorobutadiene | <0.022 | | 0.050 | 0.022 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Isopropylbenzene | <0.019 | | 0.050 | 0.019 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Isopropyl ether | <0.014 | | 0.050 | 0.014 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Methylene Chloride | <0.082 | | 0.25 | 0.082 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Methyl tert-butyl ether | <0.020 | | 0.050 | 0.020 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Naphthalene | <0.017 | | 0.050 | 0.017 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| n-Butylbenzene | <0.019 | | 0.050 | 0.019 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| N-Propylbenzene | <0.021 | | 0.050 | 0.021 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| p-Isopropyltoluene | <0.018 | | 0.050 | 0.018 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| sec-Butylbenzene | <0.020 | | 0.050 | 0.020 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Styrene | <0.019 | | 0.050 | 0.019 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| tert-Butylbenzene | <0.020 | | 0.050 | 0.020 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,1,1,2-Tetrachloroethane | <0.023 | | 0.050 | 0.023 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,1,2,2-Tetrachloroethane | <0.020 | | 0.050 | 0.020 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Tetrachloroethene | <0.019 | | 0.050 | 0.019 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Toluene | <0.0074 | | 0.013 | 0.0074 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| trans-1,2-Dichloroethene | <0.018 | | 0.050 | 0.018 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LB3 500-581693/19-A**
**Matrix: Solid**
**Analysis Batch: 581753**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 581693**

| Analyte | LB3 Result | LB3 Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | <0.018 | | 0.050 | 0.018 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,2,3-Trichlorobenzene | <0.023 | | 0.050 | 0.023 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,2,4-Trichlorobenzene | <0.017 | | 0.050 | 0.017 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,1,1-Trichloroethane | <0.019 | | 0.050 | 0.019 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,1,2-Trichloroethane | <0.018 | | 0.050 | 0.018 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Trichloroethene | <0.0082 | | 0.025 | 0.0082 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Trichlorofluoromethane | <0.021 | | 0.050 | 0.021 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,2,3-Trichloropropane | <0.021 | | 0.10 | 0.021 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,2,4-Trimethylbenzene | <0.018 | | 0.050 | 0.018 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| 1,3,5-Trimethylbenzene | <0.019 | | 0.050 | 0.019 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Vinyl chloride | <0.013 | | 0.050 | 0.013 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |
| Xylenes, Total | <0.011 | | 0.025 | 0.011 | mg/Kg | | 01/19/21 20:15 | 01/20/21 12:56 | 50 |

| *Surrogate* | *LB3 %Recovery* | *LB3 Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *72 - 124* | *01/19/21 20:15* | *01/20/21 12:56* | *50* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 120* | *01/19/21 20:15* | *01/20/21 12:56* | *50* |
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *75 - 126* | *01/19/21 20:15* | *01/20/21 12:56* | *50* |
| *Toluene-d8 (Surr)* | *98* | | *75 - 120* | *01/19/21 20:15* | *01/20/21 12:56* | *50* |

**Lab Sample ID: LCS 500-581693/20-A**
**Matrix: Solid**
**Analysis Batch: 581753**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 581693**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 2.50 | 2.34 | | mg/Kg | | 94 | 70 - 120 |
| Bromobenzene | 2.50 | 2.14 | | mg/Kg | | 86 | 70 - 122 |
| Bromochloromethane | 2.50 | 2.20 | | mg/Kg | | 88 | 65 - 122 |
| Bromodichloromethane | 2.50 | 2.12 | | mg/Kg | | 85 | 69 - 120 |
| Bromoform | 2.50 | 1.87 | | mg/Kg | | 75 | 56 - 132 |
| Bromomethane | 2.50 | 2.12 | | mg/Kg | | 85 | 40 - 152 |
| Carbon tetrachloride | 2.50 | 2.30 | | mg/Kg | | 92 | 59 - 133 |
| Chlorobenzene | 2.50 | 2.21 | | mg/Kg | | 89 | 70 - 120 |
| Chloroethane | 2.50 | 2.79 | | mg/Kg | | 112 | 48 - 136 |
| Chloroform | 2.50 | 2.22 | | mg/Kg | | 89 | 70 - 120 |
| Chloromethane | 2.50 | 3.30 | | mg/Kg | | 132 | 56 - 152 |
| 2-Chlorotoluene | 2.50 | 2.18 | | mg/Kg | | 87 | 70 - 125 |
| 4-Chlorotoluene | 2.50 | 2.19 | | mg/Kg | | 88 | 68 - 124 |
| cis-1,2-Dichloroethene | 2.50 | 2.23 | | mg/Kg | | 89 | 70 - 125 |
| cis-1,3-Dichloropropene | 2.50 | 2.11 | | mg/Kg | | 84 | 64 - 127 |
| Dibromochloromethane | 2.50 | 1.88 | | mg/Kg | | 75 | 68 - 125 |
| 1,2-Dibromo-3-Chloropropane | 2.50 | 1.76 | | mg/Kg | | 70 | 56 - 123 |
| 1,2-Dibromoethane | 2.50 | 2.24 | | mg/Kg | | 90 | 70 - 125 |
| Dibromomethane | 2.50 | 2.20 | | mg/Kg | | 88 | 70 - 120 |
| 1,2-Dichlorobenzene | 2.50 | 2.06 | | mg/Kg | | 82 | 70 - 125 |
| 1,3-Dichlorobenzene | 2.50 | 2.15 | | mg/Kg | | 86 | 70 - 125 |
| 1,4-Dichlorobenzene | 2.50 | 2.15 | | mg/Kg | | 86 | 70 - 120 |
| Dichlorodifluoromethane | 2.50 | 1.72 | | mg/Kg | | 69 | 40 - 159 |
| 1,1-Dichloroethane | 2.50 | 2.65 | | mg/Kg | | 106 | 70 - 125 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-581693/20-A**
**Matrix: Solid**
**Analysis Batch: 581753**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 581693**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 2.50 | 2.40 | | mg/Kg | | 96 | 68 - 127 |
| 1,1-Dichloroethene | 2.50 | 2.26 | | mg/Kg | | 90 | 67 - 122 |
| 1,2-Dichloropropane | 2.50 | 2.71 | | mg/Kg | | 108 | 67 - 130 |
| 1,3-Dichloropropane | 2.50 | 2.23 | | mg/Kg | | 89 | 62 - 136 |
| 2,2-Dichloropropane | 2.50 | 2.51 | | mg/Kg | | 101 | 58 - 139 |
| 1,1-Dichloropropene | 2.50 | 2.32 | | mg/Kg | | 93 | 70 - 121 |
| Ethylbenzene | 2.50 | 2.32 | | mg/Kg | | 93 | 70 - 123 |
| Hexachlorobutadiene | 2.50 | 2.15 | | mg/Kg | | 86 | 51 - 150 |
| Isopropylbenzene | 2.50 | 2.32 | | mg/Kg | | 93 | 70 - 126 |
| Methylene Chloride | 2.50 | 2.34 | | mg/Kg | | 94 | 69 - 125 |
| Methyl tert-butyl ether | 2.50 | 2.21 | | mg/Kg | | 89 | 55 - 123 |
| Naphthalene | 2.50 | 2.24 | | mg/Kg | | 89 | 53 - 144 |
| n-Butylbenzene | 2.50 | 2.32 | | mg/Kg | | 93 | 68 - 125 |
| N-Propylbenzene | 2.50 | 2.27 | | mg/Kg | | 91 | 69 - 127 |
| p-Isopropyltoluene | 2.50 | 2.23 | | mg/Kg | | 89 | 70 - 125 |
| sec-Butylbenzene | 2.50 | 2.29 | | mg/Kg | | 92 | 70 - 123 |
| Styrene | 2.50 | 2.33 | | mg/Kg | | 93 | 70 - 120 |
| tert-Butylbenzene | 2.50 | 2.18 | | mg/Kg | | 87 | 70 - 121 |
| 1,1,1,2-Tetrachloroethane | 2.50 | 2.14 | | mg/Kg | | 86 | 70 - 125 |
| 1,1,2,2-Tetrachloroethane | 2.50 | 2.25 | | mg/Kg | | 90 | 62 - 140 |
| Tetrachloroethene | 2.50 | 2.17 | | mg/Kg | | 87 | 70 - 128 |
| Toluene | 2.50 | 2.19 | | mg/Kg | | 88 | 70 - 125 |
| trans-1,2-Dichloroethene | 2.50 | 2.25 | | mg/Kg | | 90 | 70 - 125 |
| trans-1,3-Dichloropropene | 2.50 | 2.06 | | mg/Kg | | 83 | 62 - 128 |
| 1,2,3-Trichlorobenzene | 2.50 | 2.59 | | mg/Kg | | 104 | 51 - 145 |
| 1,2,4-Trichlorobenzene | 2.50 | 2.49 | | mg/Kg | | 100 | 57 - 137 |
| 1,1,1-Trichloroethane | 2.50 | 2.32 | | mg/Kg | | 93 | 70 - 125 |
| 1,1,2-Trichloroethane | 2.50 | 2.11 | | mg/Kg | | 84 | 71 - 130 |
| Trichloroethene | 2.50 | 2.30 | | mg/Kg | | 92 | 70 - 125 |
| Trichlorofluoromethane | 2.50 | 2.52 | | mg/Kg | | 101 | 55 - 128 |
| 1,2,3-Trichloropropane | 2.50 | 2.24 | | mg/Kg | | 90 | 50 - 133 |
| 1,2,4-Trimethylbenzene | 2.50 | 2.24 | | mg/Kg | | 89 | 70 - 123 |
| 1,3,5-Trimethylbenzene | 2.50 | 2.23 | | mg/Kg | | 89 | 70 - 123 |
| Vinyl chloride | 2.50 | 2.75 | | mg/Kg | | 110 | 64 - 126 |
| Xylenes, Total | 5.00 | 4.40 | | mg/Kg | | 88 | 70 - 125 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *98* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *95* | | *75 - 120* |

**Lab Sample ID: MB 500-581724/6**
**Matrix: Water**
**Analysis Batch: 581724**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.15 | | 0.50 | 0.15 | ug/L | | | 01/20/21 10:51 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-581724/6**
**Matrix: Water**
**Analysis Batch: 581724**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 10:51 | 1 |
| Bromochloromethane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/20/21 10:51 | 1 |
| Bromodichloromethane | <0.37 | | 1.0 | 0.37 | ug/L | | | 01/20/21 10:51 | 1 |
| Bromoform | <0.48 | | 1.0 | 0.48 | ug/L | | | 01/20/21 10:51 | 1 |
| Bromomethane | <0.80 | | 3.0 | 0.80 | ug/L | | | 01/20/21 10:51 | 1 |
| Carbon tetrachloride | <0.38 | | 1.0 | 0.38 | ug/L | | | 01/20/21 10:51 | 1 |
| Chlorobenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 10:51 | 1 |
| Chloroethane | <0.51 | | 1.0 | 0.51 | ug/L | | | 01/20/21 10:51 | 1 |
| Chloroform | <0.37 | | 2.0 | 0.37 | ug/L | | | 01/20/21 10:51 | 1 |
| Chloromethane | <0.32 | | 1.0 | 0.32 | ug/L | | | 01/20/21 10:51 | 1 |
| 2-Chlorotoluene | <0.31 | | 1.0 | 0.31 | ug/L | | | 01/20/21 10:51 | 1 |
| 4-Chlorotoluene | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/20/21 10:51 | 1 |
| cis-1,2-Dichloroethene | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/20/21 10:51 | 1 |
| cis-1,3-Dichloropropene | <0.42 | | 1.0 | 0.42 | ug/L | | | 01/20/21 10:51 | 1 |
| Dibromochloromethane | <0.49 | | 1.0 | 0.49 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,2-Dibromo-3-Chloropropane | <2.0 | | 5.0 | 2.0 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,2-Dibromoethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 10:51 | 1 |
| Dibromomethane | <0.27 | | 1.0 | 0.27 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,2-Dichlorobenzene | <0.33 | | 1.0 | 0.33 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,3-Dichlorobenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,4-Dichlorobenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 10:51 | 1 |
| Dichlorodifluoromethane | <0.67 | | 3.0 | 0.67 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,1-Dichloroethane | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,2-Dichloroethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,1-Dichloroethene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,2-Dichloropropane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,3-Dichloropropane | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 10:51 | 1 |
| 2,2-Dichloropropane | <0.44 | | 1.0 | 0.44 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,1-Dichloropropene | <0.30 | | 1.0 | 0.30 | ug/L | | | 01/20/21 10:51 | 1 |
| Ethylbenzene | <0.18 | | 0.50 | 0.18 | ug/L | | | 01/20/21 10:51 | 1 |
| Hexachlorobutadiene | <0.45 | | 1.0 | 0.45 | ug/L | | | 01/20/21 10:51 | 1 |
| Isopropylbenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 10:51 | 1 |
| Isopropyl ether | <0.28 | | 1.0 | 0.28 | ug/L | | | 01/20/21 10:51 | 1 |
| Methylene Chloride | <1.6 | | 5.0 | 1.6 | ug/L | | | 01/20/21 10:51 | 1 |
| Methyl tert-butyl ether | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 10:51 | 1 |
| Naphthalene | <0.34 | | 1.0 | 0.34 | ug/L | | | 01/20/21 10:51 | 1 |
| n-Butylbenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 10:51 | 1 |
| N-Propylbenzene | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/20/21 10:51 | 1 |
| p-Isopropyltoluene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 10:51 | 1 |
| sec-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/20/21 10:51 | 1 |
| Styrene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/20/21 10:51 | 1 |
| tert-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.46 | | 1.0 | 0.46 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/20/21 10:51 | 1 |
| Tetrachloroethene | <0.37 | | 1.0 | 0.37 | ug/L | | | 01/20/21 10:51 | 1 |
| Toluene | <0.15 | | 0.50 | 0.15 | ug/L | | | 01/20/21 10:51 | 1 |
| trans-1,2-Dichloroethene | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/20/21 10:51 | 1 |
| trans-1,3-Dichloropropene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,2,3-Trichlorobenzene | <0.46 | | 1.0 | 0.46 | ug/L | | | 01/20/21 10:51 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-581724/6**
**Matrix: Water**
**Analysis Batch: 581724**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | <0.34 | | 1.0 | 0.34 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,1,1-Trichloroethane | <0.38 | | 1.0 | 0.38 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,1,2-Trichloroethane | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/20/21 10:51 | 1 |
| Trichloroethene | <0.16 | | 0.50 | 0.16 | ug/L | | | 01/20/21 10:51 | 1 |
| Trichlorofluoromethane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,2,3-Trichloropropane | <0.41 | | 2.0 | 0.41 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,2,4-Trimethylbenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/20/21 10:51 | 1 |
| 1,3,5-Trimethylbenzene | <0.25 | | 1.0 | 0.25 | ug/L | | | 01/20/21 10:51 | 1 |
| Vinyl chloride | <0.20 | | 1.0 | 0.20 | ug/L | | | 01/20/21 10:51 | 1 |
| Xylenes, Total | <0.22 | | 1.0 | 0.22 | ug/L | | | 01/20/21 10:51 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *92* | | *72 - 124* | | *01/20/21 10:51* | *1* |
| *Dibromofluoromethane (Surr)* | *88* | | *75 - 120* | | *01/20/21 10:51* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *75 - 126* | | *01/20/21 10:51* | *1* |
| *Toluene-d8 (Surr)* | *93* | | *75 - 120* | | *01/20/21 10:51* | *1* |

**Lab Sample ID: LCS 500-581724/4**
**Matrix: Water**
**Analysis Batch: 581724**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 50.0 | 49.3 | | ug/L | | 99 | 70 - 120 |
| Bromobenzene | 50.0 | 42.4 | | ug/L | | 85 | 70 - 122 |
| Bromochloromethane | 50.0 | 44.0 | | ug/L | | 88 | 65 - 122 |
| Bromodichloromethane | 50.0 | 41.2 | | ug/L | | 82 | 69 - 120 |
| Bromoform | 50.0 | 32.1 | | ug/L | | 64 | 56 - 132 |
| Bromomethane | 50.0 | 51.6 | | ug/L | | 103 | 40 - 152 |
| Carbon tetrachloride | 50.0 | 45.4 | | ug/L | | 91 | 59 - 133 |
| Chlorobenzene | 50.0 | 47.1 | | ug/L | | 94 | 70 - 120 |
| Chloroethane | 50.0 | 60.9 | | ug/L | | 122 | 48 - 136 |
| Chloroform | 50.0 | 45.3 | | ug/L | | 91 | 70 - 120 |
| Chloromethane | 50.0 | 56.4 | | ug/L | | 113 | 56 - 152 |
| 2-Chlorotoluene | 50.0 | 47.5 | | ug/L | | 95 | 70 - 125 |
| 4-Chlorotoluene | 50.0 | 47.0 | | ug/L | | 94 | 68 - 124 |
| cis-1,2-Dichloroethene | 50.0 | 44.9 | | ug/L | | 90 | 70 - 125 |
| cis-1,3-Dichloropropene | 50.0 | 40.7 | | ug/L | | 81 | 64 - 127 |
| Dibromochloromethane | 50.0 | 35.0 | | ug/L | | 70 | 68 - 125 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 31.6 | | ug/L | | 63 | 56 - 123 |
| 1,2-Dibromoethane | 50.0 | 40.2 | | ug/L | | 80 | 70 - 125 |
| Dibromomethane | 50.0 | 42.8 | | ug/L | | 86 | 70 - 120 |
| 1,2-Dichlorobenzene | 50.0 | 43.7 | | ug/L | | 87 | 70 - 125 |
| 1,3-Dichlorobenzene | 50.0 | 46.1 | | ug/L | | 92 | 70 - 125 |
| 1,4-Dichlorobenzene | 50.0 | 45.4 | | ug/L | | 91 | 70 - 120 |
| Dichlorodifluoromethane | 50.0 | 46.7 | | ug/L | | 93 | 40 - 159 |
| 1,1-Dichloroethane | 50.0 | 51.2 | | ug/L | | 102 | 70 - 125 |
| 1,2-Dichloroethane | 50.0 | 49.5 | | ug/L | | 99 | 68 - 127 |
| 1,1-Dichloroethene | 50.0 | 43.9 | | ug/L | | 88 | 67 - 122 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-581724/4**
**Matrix: Water**
**Analysis Batch: 581724**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 50.0 | 53.5 | | ug/L | | 107 | 67 - 130 |
| 1,3-Dichloropropane | 50.0 | 43.8 | | ug/L | | 88 | 62 - 136 |
| 2,2-Dichloropropane | 50.0 | 51.0 | | ug/L | | 102 | 58 - 139 |
| 1,1-Dichloropropene | 50.0 | 50.4 | | ug/L | | 101 | 70 - 121 |
| Ethylbenzene | 50.0 | 50.3 | | ug/L | | 101 | 70 - 123 |
| Hexachlorobutadiene | 50.0 | 53.6 | | ug/L | | 107 | 51 - 150 |
| Isopropylbenzene | 50.0 | 50.0 | | ug/L | | 100 | 70 - 126 |
| Methylene Chloride | 50.0 | 42.0 | | ug/L | | 84 | 69 - 125 |
| Methyl tert-butyl ether | 50.0 | 47.5 | | ug/L | | 95 | 55 - 123 |
| Naphthalene | 50.0 | 38.1 | | ug/L | | 76 | 53 - 144 |
| n-Butylbenzene | 50.0 | 51.1 | | ug/L | | 102 | 68 - 125 |
| N-Propylbenzene | 50.0 | 49.9 | | ug/L | | 100 | 69 - 127 |
| p-Isopropyltoluene | 50.0 | 51.4 | | ug/L | | 103 | 70 - 125 |
| sec-Butylbenzene | 50.0 | 51.1 | | ug/L | | 102 | 70 - 123 |
| Styrene | 50.0 | 46.6 | | ug/L | | 93 | 70 - 120 |
| tert-Butylbenzene | 50.0 | 49.9 | | ug/L | | 100 | 70 - 121 |
| 1,1,1,2-Tetrachloroethane | 50.0 | 42.9 | | ug/L | | 86 | 70 - 125 |
| 1,1,2,2-Tetrachloroethane | 50.0 | 38.2 | | ug/L | | 76 | 62 - 140 |
| Tetrachloroethene | 50.0 | 49.4 | | ug/L | | 99 | 70 - 128 |
| Toluene | 50.0 | 47.9 | | ug/L | | 96 | 70 - 125 |
| trans-1,2-Dichloroethene | 50.0 | 46.3 | | ug/L | | 93 | 70 - 125 |
| trans-1,3-Dichloropropene | 50.0 | 37.9 | | ug/L | | 76 | 62 - 128 |
| 1,2,3-Trichlorobenzene | 50.0 | 41.8 | | ug/L | | 84 | 51 - 145 |
| 1,2,4-Trichlorobenzene | 50.0 | 42.2 | | ug/L | | 84 | 57 - 137 |
| 1,1,1-Trichloroethane | 50.0 | 47.6 | | ug/L | | 95 | 70 - 125 |
| 1,1,2-Trichloroethane | 50.0 | 40.6 | | ug/L | | 81 | 71 - 130 |
| Trichloroethene | 50.0 | 47.6 | | ug/L | | 95 | 70 - 125 |
| Trichlorofluoromethane | 50.0 | 46.3 | | ug/L | | 93 | 55 - 128 |
| 1,2,3-Trichloropropane | 50.0 | 38.9 | | ug/L | | 78 | 50 - 133 |
| 1,2,4-Trimethylbenzene | 50.0 | 48.4 | | ug/L | | 97 | 70 - 123 |
| 1,3,5-Trimethylbenzene | 50.0 | 49.0 | | ug/L | | 98 | 70 - 123 |
| Vinyl chloride | 50.0 | 49.8 | | ug/L | | 100 | 64 - 126 |
| Xylenes, Total | 100 | 101 | | ug/L | | 101 | 70 - 125 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *93* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *91* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *95* | | *75 - 120* |

**Lab Sample ID: 500-193856-4 MS**
**Matrix: Water**
**Analysis Batch: 581724**

**Client Sample ID: TRG TW-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.15 | | 50.0 | 53.6 | | ug/L | | 107 | 70 - 120 |
| Bromobenzene | <0.36 | | 50.0 | 46.3 | | ug/L | | 93 | 70 - 122 |
| Bromochloromethane | <0.43 | | 50.0 | 48.4 | | ug/L | | 97 | 65 - 122 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-193856-4 MS**
**Matrix: Water**
**Analysis Batch: 581724**

**Client Sample ID: TRG TW-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | <0.37 | | 50.0 | 44.0 | | ug/L | | 88 | 69 - 120 |
| Bromoform | <0.48 | | 50.0 | 33.1 | | ug/L | | 66 | 56 - 132 |
| Bromomethane | <0.80 | | 50.0 | 59.8 | | ug/L | | 120 | 40 - 152 |
| Carbon tetrachloride | <0.38 | | 50.0 | 45.6 | | ug/L | | 91 | 59 - 133 |
| Chlorobenzene | <0.39 | | 50.0 | 51.3 | | ug/L | | 103 | 70 - 120 |
| Chloroethane | <0.51 | F1 | 50.0 | 68.5 | F1 | ug/L | | 137 | 48 - 136 |
| Chloroform | <0.37 | | 50.0 | 49.9 | | ug/L | | 100 | 70 - 120 |
| Chloromethane | <0.32 | | 50.0 | 65.1 | | ug/L | | 130 | 56 - 152 |
| 2-Chlorotoluene | <0.31 | | 50.0 | 51.0 | | ug/L | | 102 | 70 - 125 |
| 4-Chlorotoluene | <0.35 | | 50.0 | 50.5 | | ug/L | | 101 | 68 - 124 |
| cis-1,2-Dichloroethene | <0.41 | | 50.0 | 49.1 | | ug/L | | 98 | 70 - 125 |
| cis-1,3-Dichloropropene | <0.42 | | 50.0 | 42.8 | | ug/L | | 86 | 64 - 127 |
| Dibromochloromethane | <0.49 | | 50.0 | 36.6 | | ug/L | | 73 | 68 - 125 |
| 1,2-Dibromo-3-Chloropropane | <2.0 | | 50.0 | 32.3 | | ug/L | | 65 | 56 - 123 |
| 1,2-Dibromoethane | <0.39 | | 50.0 | 43.1 | | ug/L | | 86 | 70 - 125 |
| Dibromomethane | <0.27 | | 50.0 | 46.7 | | ug/L | | 93 | 70 - 120 |
| 1,2-Dichlorobenzene | <0.33 | | 50.0 | 47.3 | | ug/L | | 95 | 70 - 125 |
| 1,3-Dichlorobenzene | <0.40 | | 50.0 | 49.4 | | ug/L | | 99 | 70 - 125 |
| 1,4-Dichlorobenzene | 0.47 | J | 50.0 | 48.7 | | ug/L | | 96 | 70 - 120 |
| Dichlorodifluoromethane | <0.67 | | 50.0 | 51.4 | | ug/L | | 103 | 40 - 159 |
| 1,1-Dichloroethane | <0.41 | | 50.0 | 56.4 | | ug/L | | 113 | 70 - 125 |
| 1,2-Dichloroethane | <0.39 | | 50.0 | 54.1 | | ug/L | | 108 | 68 - 127 |
| 1,1-Dichloroethene | <0.39 | | 50.0 | 47.2 | | ug/L | | 94 | 67 - 122 |
| 1,2-Dichloropropane | <0.43 | | 50.0 | 58.6 | | ug/L | | 117 | 67 - 130 |
| 1,3-Dichloropropane | <0.36 | | 50.0 | 48.0 | | ug/L | | 96 | 62 - 136 |
| 2,2-Dichloropropane | <0.44 | | 50.0 | 50.7 | | ug/L | | 101 | 58 - 139 |
| 1,1-Dichloropropene | <0.30 | | 50.0 | 53.5 | | ug/L | | 107 | 70 - 121 |
| Ethylbenzene | <0.18 | | 50.0 | 54.4 | | ug/L | | 109 | 70 - 123 |
| Hexachlorobutadiene | <0.45 | | 50.0 | 58.0 | | ug/L | | 116 | 51 - 150 |
| Isopropylbenzene | <0.39 | | 50.0 | 53.1 | | ug/L | | 106 | 70 - 126 |
| Methylene Chloride | <1.6 | | 50.0 | 46.2 | | ug/L | | 92 | 69 - 125 |
| Methyl tert-butyl ether | <0.39 | | 50.0 | 52.1 | | ug/L | | 104 | 55 - 123 |
| Naphthalene | <0.34 | | 50.0 | 42.1 | | ug/L | | 84 | 53 - 144 |
| n-Butylbenzene | <0.39 | | 50.0 | 53.2 | | ug/L | | 106 | 68 - 125 |
| N-Propylbenzene | <0.41 | | 50.0 | 52.7 | | ug/L | | 105 | 69 - 127 |
| p-Isopropyltoluene | <0.36 | | 50.0 | 54.5 | | ug/L | | 109 | 70 - 125 |
| sec-Butylbenzene | <0.40 | | 50.0 | 54.0 | | ug/L | | 108 | 70 - 123 |
| Styrene | <0.39 | | 50.0 | 51.1 | | ug/L | | 102 | 70 - 120 |
| tert-Butylbenzene | <0.40 | | 50.0 | 52.6 | | ug/L | | 105 | 70 - 121 |
| 1,1,1,2-Tetrachloroethane | <0.46 | | 50.0 | 45.6 | | ug/L | | 91 | 70 - 125 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 50.0 | 41.2 | | ug/L | | 82 | 62 - 140 |
| Tetrachloroethene | <0.37 | | 50.0 | 51.8 | | ug/L | | 104 | 70 - 128 |
| Toluene | <0.15 | | 50.0 | 51.4 | | ug/L | | 103 | 70 - 125 |
| trans-1,2-Dichloroethene | <0.35 | | 50.0 | 49.4 | | ug/L | | 99 | 70 - 125 |
| trans-1,3-Dichloropropene | <0.36 | | 50.0 | 39.3 | | ug/L | | 79 | 62 - 128 |
| 1,2,3-Trichlorobenzene | <0.46 | | 50.0 | 45.0 | | ug/L | | 90 | 51 - 145 |
| 1,2,4-Trichlorobenzene | <0.34 | | 50.0 | 43.8 | | ug/L | | 88 | 57 - 137 |
| 1,1,1-Trichloroethane | <0.38 | | 50.0 | 50.0 | | ug/L | | 100 | 70 - 125 |
| 1,1,2-Trichloroethane | <0.35 | | 50.0 | 45.0 | | ug/L | | 90 | 71 - 130 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-193856-4 MS**
**Matrix: Water**
**Analysis Batch: 581724**

**Client Sample ID: TRG TW-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | <0.16 | | 50.0 | 50.5 | | ug/L | | 101 | 70 - 125 |
| Trichlorofluoromethane | <0.43 | | 50.0 | 51.1 | | ug/L | | 102 | 55 - 128 |
| 1,2,3-Trichloropropane | <0.41 | | 50.0 | 42.2 | | ug/L | | 84 | 50 - 133 |
| 1,2,4-Trimethylbenzene | <0.36 | | 50.0 | 51.7 | | ug/L | | 103 | 70 - 123 |
| 1,3,5-Trimethylbenzene | <0.25 | | 50.0 | 52.5 | | ug/L | | 105 | 70 - 123 |
| Vinyl chloride | <0.20 | | 50.0 | 56.4 | | ug/L | | 113 | 64 - 126 |
| Xylenes, Total | <0.22 | | 100 | 110 | | ug/L | | 110 | 70 - 125 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *93* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *94* | | *75 - 120* |

**Lab Sample ID: 500-193856-4 MSD**
**Matrix: Water**
**Analysis Batch: 581724**

**Client Sample ID: TRG TW-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.15 | | 50.0 | 55.8 | | ug/L | | 112 | 70 - 120 | 4 | 20 |
| Bromobenzene | <0.36 | | 50.0 | 49.2 | | ug/L | | 98 | 70 - 122 | 6 | 20 |
| Bromochloromethane | <0.43 | | 50.0 | 50.0 | | ug/L | | 100 | 65 - 122 | 3 | 20 |
| Bromodichloromethane | <0.37 | | 50.0 | 47.7 | | ug/L | | 95 | 69 - 120 | 8 | 20 |
| Bromoform | <0.48 | | 50.0 | 35.5 | | ug/L | | 71 | 56 - 132 | 7 | 20 |
| Bromomethane | <0.80 | | 50.0 | 57.3 | | ug/L | | 115 | 40 - 152 | 4 | 20 |
| Carbon tetrachloride | <0.38 | | 50.0 | 47.8 | | ug/L | | 96 | 59 - 133 | 5 | 20 |
| Chlorobenzene | <0.39 | | 50.0 | 52.9 | | ug/L | | 106 | 70 - 120 | 3 | 20 |
| Chloroethane | <0.51 | F1 | 50.0 | 66.9 | | ug/L | | 134 | 48 - 136 | 2 | 20 |
| Chloroform | <0.37 | | 50.0 | 52.1 | | ug/L | | 104 | 70 - 120 | 4 | 20 |
| Chloromethane | <0.32 | | 50.0 | 61.1 | | ug/L | | 122 | 56 - 152 | 6 | 20 |
| 2-Chlorotoluene | <0.31 | | 50.0 | 53.2 | | ug/L | | 106 | 70 - 125 | 4 | 20 |
| 4-Chlorotoluene | <0.35 | | 50.0 | 52.6 | | ug/L | | 105 | 68 - 124 | 4 | 20 |
| cis-1,2-Dichloroethene | <0.41 | | 50.0 | 51.7 | | ug/L | | 103 | 70 - 125 | 5 | 20 |
| cis-1,3-Dichloropropene | <0.42 | | 50.0 | 46.0 | | ug/L | | 92 | 64 - 127 | 7 | 20 |
| Dibromochloromethane | <0.49 | | 50.0 | 38.8 | | ug/L | | 78 | 68 - 125 | 6 | 20 |
| 1,2-Dibromo-3-Chloropropane | <2.0 | | 50.0 | 35.9 | | ug/L | | 72 | 56 - 123 | 11 | 20 |
| 1,2-Dibromoethane | <0.39 | | 50.0 | 46.1 | | ug/L | | 92 | 70 - 125 | 7 | 20 |
| Dibromomethane | <0.27 | | 50.0 | 50.5 | | ug/L | | 101 | 70 - 120 | 8 | 20 |
| 1,2-Dichlorobenzene | <0.33 | | 50.0 | 49.7 | | ug/L | | 99 | 70 - 125 | 5 | 20 |
| 1,3-Dichlorobenzene | <0.40 | | 50.0 | 52.0 | | ug/L | | 104 | 70 - 125 | 5 | 20 |
| 1,4-Dichlorobenzene | 0.47 | J | 50.0 | 50.9 | | ug/L | | 101 | 70 - 120 | 4 | 20 |
| Dichlorodifluoromethane | <0.67 | | 50.0 | 48.6 | | ug/L | | 97 | 40 - 159 | 6 | 20 |
| 1,1-Dichloroethane | <0.41 | | 50.0 | 58.0 | | ug/L | | 116 | 70 - 125 | 3 | 20 |
| 1,2-Dichloroethane | <0.39 | | 50.0 | 57.9 | | ug/L | | 116 | 68 - 127 | 7 | 20 |
| 1,1-Dichloroethene | <0.39 | | 50.0 | 48.1 | | ug/L | | 96 | 67 - 122 | 2 | 20 |
| 1,2-Dichloropropane | <0.43 | | 50.0 | 59.7 | | ug/L | | 119 | 67 - 130 | 2 | 20 |
| 1,3-Dichloropropane | <0.36 | | 50.0 | 50.6 | | ug/L | | 101 | 62 - 136 | 5 | 20 |
| 2,2-Dichloropropane | <0.44 | | 50.0 | 55.9 | | ug/L | | 112 | 58 - 139 | 10 | 20 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-193856-4 MSD**
**Matrix: Water**
**Analysis Batch: 581724**

**Client Sample ID: TRG TW-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | <0.30 | | 50.0 | 54.9 | | ug/L | | 110 | 70 - 121 | 3 | 20 |
| Ethylbenzene | <0.18 | | 50.0 | 55.2 | | ug/L | | 110 | 70 - 123 | 1 | 20 |
| Hexachlorobutadiene | <0.45 | | 50.0 | 60.3 | | ug/L | | 121 | 51 - 150 | 4 | 20 |
| Isopropylbenzene | <0.39 | | 50.0 | 54.7 | | ug/L | | 109 | 70 - 126 | 3 | 20 |
| Methylene Chloride | <1.6 | | 50.0 | 48.6 | | ug/L | | 97 | 69 - 125 | 5 | 20 |
| Methyl tert-butyl ether | <0.39 | | 50.0 | 54.7 | | ug/L | | 109 | 55 - 123 | 5 | 20 |
| Naphthalene | <0.34 | | 50.0 | 47.2 | | ug/L | | 94 | 53 - 144 | 11 | 20 |
| n-Butylbenzene | <0.39 | | 50.0 | 54.1 | | ug/L | | 108 | 68 - 125 | 2 | 20 |
| N-Propylbenzene | <0.41 | | 50.0 | 54.7 | | ug/L | | 109 | 69 - 127 | 4 | 20 |
| p-Isopropyltoluene | <0.36 | | 50.0 | 55.7 | | ug/L | | 111 | 70 - 125 | 2 | 20 |
| sec-Butylbenzene | <0.40 | | 50.0 | 55.3 | | ug/L | | 111 | 70 - 123 | 2 | 20 |
| Styrene | <0.39 | | 50.0 | 52.9 | | ug/L | | 106 | 70 - 120 | 3 | 20 |
| tert-Butylbenzene | <0.40 | | 50.0 | 54.2 | | ug/L | | 108 | 70 - 121 | 3 | 20 |
| 1,1,1,2-Tetrachloroethane | <0.46 | | 50.0 | 47.4 | | ug/L | | 95 | 70 - 125 | 4 | 20 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 50.0 | 44.2 | | ug/L | | 88 | 62 - 140 | 7 | 20 |
| Tetrachloroethene | <0.37 | | 50.0 | 52.1 | | ug/L | | 104 | 70 - 128 | 1 | 20 |
| Toluene | <0.15 | | 50.0 | 53.0 | | ug/L | | 106 | 70 - 125 | 3 | 20 |
| trans-1,2-Dichloroethene | <0.35 | | 50.0 | 50.2 | | ug/L | | 100 | 70 - 125 | 2 | 20 |
| trans-1,3-Dichloropropene | <0.36 | | 50.0 | 42.2 | | ug/L | | 84 | 62 - 128 | 7 | 20 |
| 1,2,3-Trichlorobenzene | <0.46 | | 50.0 | 49.3 | | ug/L | | 99 | 51 - 145 | 9 | 20 |
| 1,2,4-Trichlorobenzene | <0.34 | | 50.0 | 47.6 | | ug/L | | 95 | 57 - 137 | 8 | 20 |
| 1,1,1-Trichloroethane | <0.38 | | 50.0 | 51.3 | | ug/L | | 103 | 70 - 125 | 3 | 20 |
| 1,1,2-Trichloroethane | <0.35 | | 50.0 | 46.9 | | ug/L | | 94 | 71 - 130 | 4 | 20 |
| Trichloroethene | <0.16 | | 50.0 | 52.1 | | ug/L | | 104 | 70 - 125 | 3 | 20 |
| Trichlorofluoromethane | <0.43 | | 50.0 | 49.2 | | ug/L | | 98 | 55 - 128 | 4 | 20 |
| 1,2,3-Trichloropropane | <0.41 | | 50.0 | 45.1 | | ug/L | | 90 | 50 - 133 | 7 | 20 |
| 1,2,4-Trimethylbenzene | <0.36 | | 50.0 | 53.6 | | ug/L | | 107 | 70 - 123 | 4 | 20 |
| 1,3,5-Trimethylbenzene | <0.25 | | 50.0 | 53.8 | | ug/L | | 108 | 70 - 123 | 3 | 20 |
| Vinyl chloride | <0.20 | | 50.0 | 53.5 | | ug/L | | 107 | 64 - 126 | 5 | 20 |
| Xylenes, Total | <0.22 | | 100 | 113 | | ug/L | | 113 | 70 - 125 | 3 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *93* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *94* | | *75 - 120* |

**Lab Sample ID: MB 500-581753/7**
**Matrix: Solid**
**Analysis Batch: 581753**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00015 | | 0.00025 | 0.00015 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Bromobenzene | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Bromochloromethane | <0.00043 | | 0.0010 | 0.00043 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Bromodichloromethane | <0.00037 | | 0.0010 | 0.00037 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Bromoform | <0.00048 | | 0.0010 | 0.00048 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Bromomethane | <0.00080 | | 0.0030 | 0.00080 | mg/Kg | | | 01/20/21 12:05 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-581753/7**
**Matrix: Solid**
**Analysis Batch: 581753**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | <0.00038 | | 0.0010 | 0.00038 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Chlorobenzene | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Chloroethane | <0.00050 | | 0.0010 | 0.00050 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Chloroform | <0.00037 | | 0.0020 | 0.00037 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Chloromethane | <0.00032 | | 0.0010 | 0.00032 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 2-Chlorotoluene | <0.00031 | | 0.0010 | 0.00031 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 4-Chlorotoluene | <0.00035 | | 0.0010 | 0.00035 | mg/Kg | | | 01/20/21 12:05 | 1 |
| cis-1,2-Dichloroethene | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 01/20/21 12:05 | 1 |
| cis-1,3-Dichloropropene | <0.00042 | | 0.0010 | 0.00042 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Dibromochloromethane | <0.00049 | | 0.0010 | 0.00049 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.0020 | | 0.0050 | 0.0020 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,2-Dibromoethane | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Dibromomethane | <0.00027 | | 0.0010 | 0.00027 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,2-Dichlorobenzene | <0.00033 | | 0.0010 | 0.00033 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,3-Dichlorobenzene | <0.00040 | | 0.0010 | 0.00040 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,4-Dichlorobenzene | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Dichlorodifluoromethane | <0.00067 | | 0.0030 | 0.00067 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,1-Dichloroethane | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,2-Dichloroethane | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,1-Dichloroethene | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,2-Dichloropropane | <0.00043 | | 0.0010 | 0.00043 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,3-Dichloropropane | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 2,2-Dichloropropane | <0.00044 | | 0.0010 | 0.00044 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,1-Dichloropropene | <0.00030 | | 0.0010 | 0.00030 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Ethylbenzene | <0.00018 | | 0.00025 | 0.00018 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Hexachlorobutadiene | <0.00045 | | 0.0010 | 0.00045 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Isopropylbenzene | <0.00038 | | 0.0010 | 0.00038 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Isopropyl ether | <0.00028 | | 0.0010 | 0.00028 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Methylene Chloride | <0.0016 | | 0.0050 | 0.0016 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Methyl tert-butyl ether | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Naphthalene | <0.00033 | | 0.0010 | 0.00033 | mg/Kg | | | 01/20/21 12:05 | 1 |
| n-Butylbenzene | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 01/20/21 12:05 | 1 |
| N-Propylbenzene | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 01/20/21 12:05 | 1 |
| p-Isopropyltoluene | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 01/20/21 12:05 | 1 |
| sec-Butylbenzene | <0.00040 | | 0.0010 | 0.00040 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Styrene | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 01/20/21 12:05 | 1 |
| tert-Butylbenzene | <0.00040 | | 0.0010 | 0.00040 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.00046 | | 0.0010 | 0.00046 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00040 | | 0.0010 | 0.00040 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Tetrachloroethene | <0.00037 | | 0.0010 | 0.00037 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Toluene | <0.00015 | | 0.00025 | 0.00015 | mg/Kg | | | 01/20/21 12:05 | 1 |
| trans-1,2-Dichloroethene | <0.00035 | | 0.0010 | 0.00035 | mg/Kg | | | 01/20/21 12:05 | 1 |
| trans-1,3-Dichloropropene | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,2,3-Trichlorobenzene | <0.00046 | | 0.0010 | 0.00046 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,2,4-Trichlorobenzene | <0.00034 | | 0.0010 | 0.00034 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,1,1-Trichloroethane | <0.00038 | | 0.0010 | 0.00038 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,1,2-Trichloroethane | <0.00035 | | 0.0010 | 0.00035 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Trichloroethene | <0.00016 | | 0.00050 | 0.00016 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Trichlorofluoromethane | <0.00043 | | 0.0010 | 0.00043 | mg/Kg | | | 01/20/21 12:05 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-581753/7**
**Matrix: Solid**
**Analysis Batch: 581753**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | <0.00041 | | 0.0020 | 0.00041 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,2,4-Trimethylbenzene | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 01/20/21 12:05 | 1 |
| 1,3,5-Trimethylbenzene | <0.00038 | | 0.0010 | 0.00038 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Vinyl chloride | <0.00026 | | 0.0010 | 0.00026 | mg/Kg | | | 01/20/21 12:05 | 1 |
| Xylenes, Total | <0.00022 | | 0.00050 | 0.00022 | mg/Kg | | | 01/20/21 12:05 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *72 - 124* | | *01/20/21 12:05* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *75 - 120* | | *01/20/21 12:05* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *75 - 126* | | *01/20/21 12:05* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *75 - 120* | | *01/20/21 12:05* | *1* |

**Lab Sample ID: LCS 500-581753/5**
**Matrix: Solid**
**Analysis Batch: 581753**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.0500 | 0.0522 | | mg/Kg | | 104 | 70 - 120 |
| Bromobenzene | 0.0500 | 0.0502 | | mg/Kg | | 100 | 70 - 122 |
| Bromochloromethane | 0.0500 | 0.0479 | | mg/Kg | | 96 | 65 - 122 |
| Bromodichloromethane | 0.0500 | 0.0496 | | mg/Kg | | 99 | 69 - 120 |
| Bromoform | 0.0500 | 0.0444 | | mg/Kg | | 89 | 56 - 132 |
| Bromomethane | 0.0500 | 0.0541 | | mg/Kg | | 108 | 40 - 152 |
| Carbon tetrachloride | 0.0500 | 0.0505 | | mg/Kg | | 101 | 59 - 133 |
| Chlorobenzene | 0.0500 | 0.0504 | | mg/Kg | | 101 | 70 - 120 |
| Chloroethane | 0.0500 | 0.0583 | | mg/Kg | | 117 | 48 - 136 |
| Chloroform | 0.0500 | 0.0494 | | mg/Kg | | 99 | 70 - 120 |
| Chloromethane | 0.0500 | 0.0608 | | mg/Kg | | 122 | 56 - 152 |
| 2-Chlorotoluene | 0.0500 | 0.0502 | | mg/Kg | | 100 | 70 - 125 |
| 4-Chlorotoluene | 0.0500 | 0.0502 | | mg/Kg | | 100 | 68 - 124 |
| cis-1,2-Dichloroethene | 0.0500 | 0.0498 | | mg/Kg | | 100 | 70 - 125 |
| cis-1,3-Dichloropropene | 0.0500 | 0.0513 | | mg/Kg | | 103 | 64 - 127 |
| Dibromochloromethane | 0.0500 | 0.0460 | | mg/Kg | | 92 | 68 - 125 |
| 1,2-Dibromo-3-Chloropropane | 0.0500 | 0.0415 | | mg/Kg | | 83 | 56 - 123 |
| 1,2-Dibromoethane | 0.0500 | 0.0520 | | mg/Kg | | 104 | 70 - 125 |
| Dibromomethane | 0.0500 | 0.0504 | | mg/Kg | | 101 | 70 - 120 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0482 | | mg/Kg | | 96 | 70 - 125 |
| 1,3-Dichlorobenzene | 0.0500 | 0.0499 | | mg/Kg | | 100 | 70 - 125 |
| 1,4-Dichlorobenzene | 0.0500 | 0.0494 | | mg/Kg | | 99 | 70 - 120 |
| Dichlorodifluoromethane | 0.0500 | 0.0304 | | mg/Kg | | 61 | 40 - 159 |
| 1,1-Dichloroethane | 0.0500 | 0.0593 | | mg/Kg | | 119 | 70 - 125 |
| 1,2-Dichloroethane | 0.0500 | 0.0548 | | mg/Kg | | 110 | 68 - 127 |
| 1,1-Dichloroethene | 0.0500 | 0.0488 | | mg/Kg | | 98 | 67 - 122 |
| 1,2-Dichloropropane | 0.0500 | 0.0613 | | mg/Kg | | 123 | 67 - 130 |
| 1,3-Dichloropropane | 0.0500 | 0.0520 | | mg/Kg | | 104 | 62 - 136 |
| 2,2-Dichloropropane | 0.0500 | 0.0554 | | mg/Kg | | 111 | 58 - 139 |
| 1,1-Dichloropropene | 0.0500 | 0.0526 | | mg/Kg | | 105 | 70 - 121 |
| Ethylbenzene | 0.0500 | 0.0523 | | mg/Kg | | 105 | 70 - 123 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-581753/5**
**Matrix: Solid**
**Analysis Batch: 581753**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | 0.0500 | 0.0490 | | mg/Kg | | 98 | 51 - 150 |
| Isopropylbenzene | 0.0500 | 0.0540 | | mg/Kg | | 108 | 70 - 126 |
| Methylene Chloride | 0.0500 | 0.0504 | | mg/Kg | | 101 | 69 - 125 |
| Methyl tert-butyl ether | 0.0500 | 0.0496 | | mg/Kg | | 99 | 55 - 123 |
| Naphthalene | 0.0500 | 0.0516 | | mg/Kg | | 103 | 53 - 144 |
| n-Butylbenzene | 0.0500 | 0.0518 | | mg/Kg | | 104 | 68 - 125 |
| N-Propylbenzene | 0.0500 | 0.0521 | | mg/Kg | | 104 | 69 - 127 |
| p-Isopropyltoluene | 0.0500 | 0.0503 | | mg/Kg | | 101 | 70 - 125 |
| sec-Butylbenzene | 0.0500 | 0.0522 | | mg/Kg | | 104 | 70 - 123 |
| Styrene | 0.0500 | 0.0528 | | mg/Kg | | 106 | 70 - 120 |
| tert-Butylbenzene | 0.0500 | 0.0491 | | mg/Kg | | 98 | 70 - 121 |
| 1,1,1,2-Tetrachloroethane | 0.0500 | 0.0504 | | mg/Kg | | 101 | 70 - 125 |
| 1,1,2,2-Tetrachloroethane | 0.0500 | 0.0525 | | mg/Kg | | 105 | 62 - 140 |
| Tetrachloroethene | 0.0500 | 0.0498 | | mg/Kg | | 100 | 70 - 128 |
| Toluene | 0.0500 | 0.0505 | | mg/Kg | | 101 | 70 - 125 |
| trans-1,2-Dichloroethene | 0.0500 | 0.0502 | | mg/Kg | | 100 | 70 - 125 |
| trans-1,3-Dichloropropene | 0.0500 | 0.0490 | | mg/Kg | | 98 | 62 - 128 |
| 1,2,3-Trichlorobenzene | 0.0500 | 0.0584 | | mg/Kg | | 117 | 51 - 145 |
| 1,2,4-Trichlorobenzene | 0.0500 | 0.0558 | | mg/Kg | | 112 | 57 - 137 |
| 1,1,1-Trichloroethane | 0.0500 | 0.0512 | | mg/Kg | | 102 | 70 - 125 |
| 1,1,2-Trichloroethane | 0.0500 | 0.0504 | | mg/Kg | | 101 | 71 - 130 |
| Trichloroethene | 0.0500 | 0.0511 | | mg/Kg | | 102 | 70 - 125 |
| Trichlorofluoromethane | 0.0500 | 0.0514 | | mg/Kg | | 103 | 55 - 128 |
| 1,2,3-Trichloropropane | 0.0500 | 0.0515 | | mg/Kg | | 103 | 50 - 133 |
| 1,2,4-Trimethylbenzene | 0.0500 | 0.0517 | | mg/Kg | | 103 | 70 - 123 |
| 1,3,5-Trimethylbenzene | 0.0500 | 0.0516 | | mg/Kg | | 103 | 70 - 123 |
| Vinyl chloride | 0.0500 | 0.0533 | | mg/Kg | | 107 | 64 - 126 |
| Xylenes, Total | 0.100 | 0.100 | | mg/Kg | | 100 | 70 - 125 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *98* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *98* | | *75 - 120* |

**Lab Sample ID: MB 500-581912/6**
**Matrix: Solid**
**Analysis Batch: 581912**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00015 | | 0.00025 | 0.00015 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Bromobenzene | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Bromochloromethane | <0.00043 | | 0.0010 | 0.00043 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Bromodichloromethane | <0.00037 | | 0.0010 | 0.00037 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Bromoform | <0.00048 | | 0.0010 | 0.00048 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Bromomethane | <0.00080 | | 0.0030 | 0.00080 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Carbon tetrachloride | <0.00038 | | 0.0010 | 0.00038 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Chlorobenzene | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 01/21/21 11:01 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-581912/6**
**Matrix: Solid**
**Analysis Batch: 581912**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | <0.00050 | | 0.0010 | 0.00050 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Chloroform | <0.00037 | | 0.0020 | 0.00037 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Chloromethane | <0.00032 | | 0.0010 | 0.00032 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 2-Chlorotoluene | <0.00031 | | 0.0010 | 0.00031 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 4-Chlorotoluene | <0.00035 | | 0.0010 | 0.00035 | mg/Kg | | | 01/21/21 11:01 | 1 |
| cis-1,2-Dichloroethene | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 01/21/21 11:01 | 1 |
| cis-1,3-Dichloropropene | <0.00042 | | 0.0010 | 0.00042 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Dibromochloromethane | <0.00049 | | 0.0010 | 0.00049 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.0020 | | 0.0050 | 0.0020 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,2-Dibromoethane | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Dibromomethane | <0.00027 | | 0.0010 | 0.00027 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,2-Dichlorobenzene | <0.00033 | | 0.0010 | 0.00033 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,3-Dichlorobenzene | <0.00040 | | 0.0010 | 0.00040 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,4-Dichlorobenzene | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Dichlorodifluoromethane | <0.00067 | | 0.0030 | 0.00067 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,1-Dichloroethane | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,2-Dichloroethane | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,1-Dichloroethene | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,2-Dichloropropane | <0.00043 | | 0.0010 | 0.00043 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,3-Dichloropropane | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 2,2-Dichloropropane | <0.00044 | | 0.0010 | 0.00044 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,1-Dichloropropene | <0.00030 | | 0.0010 | 0.00030 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Ethylbenzene | <0.00018 | | 0.00025 | 0.00018 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Hexachlorobutadiene | <0.00045 | | 0.0010 | 0.00045 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Isopropylbenzene | <0.00038 | | 0.0010 | 0.00038 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Isopropyl ether | <0.00028 | | 0.0010 | 0.00028 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Methylene Chloride | <0.0016 | | 0.0050 | 0.0016 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Methyl tert-butyl ether | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Naphthalene | <0.00033 | | 0.0010 | 0.00033 | mg/Kg | | | 01/21/21 11:01 | 1 |
| n-Butylbenzene | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 01/21/21 11:01 | 1 |
| N-Propylbenzene | <0.00041 | | 0.0010 | 0.00041 | mg/Kg | | | 01/21/21 11:01 | 1 |
| p-Isopropyltoluene | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 01/21/21 11:01 | 1 |
| sec-Butylbenzene | <0.00040 | | 0.0010 | 0.00040 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Styrene | <0.00039 | | 0.0010 | 0.00039 | mg/Kg | | | 01/21/21 11:01 | 1 |
| tert-Butylbenzene | <0.00040 | | 0.0010 | 0.00040 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.00046 | | 0.0010 | 0.00046 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.00040 | | 0.0010 | 0.00040 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Tetrachloroethene | <0.00037 | | 0.0010 | 0.00037 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Toluene | <0.00015 | | 0.00025 | 0.00015 | mg/Kg | | | 01/21/21 11:01 | 1 |
| trans-1,2-Dichloroethene | <0.00035 | | 0.0010 | 0.00035 | mg/Kg | | | 01/21/21 11:01 | 1 |
| trans-1,3-Dichloropropene | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,2,3-Trichlorobenzene | <0.00046 | | 0.0010 | 0.00046 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,2,4-Trichlorobenzene | <0.00034 | | 0.0010 | 0.00034 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,1,1-Trichloroethane | <0.00038 | | 0.0010 | 0.00038 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,1,2-Trichloroethane | <0.00035 | | 0.0010 | 0.00035 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Trichloroethene | <0.00016 | | 0.00050 | 0.00016 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Trichlorofluoromethane | <0.00043 | | 0.0010 | 0.00043 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,2,3-Trichloropropane | <0.00041 | | 0.0020 | 0.00041 | mg/Kg | | | 01/21/21 11:01 | 1 |
| 1,2,4-Trimethylbenzene | <0.00036 | | 0.0010 | 0.00036 | mg/Kg | | | 01/21/21 11:01 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-581912/6**
**Matrix: Solid**
**Analysis Batch: 581912**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | <0.00038 | | 0.0010 | 0.00038 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Vinyl chloride | <0.00026 | | 0.0010 | 0.00026 | mg/Kg | | | 01/21/21 11:01 | 1 |
| Xylenes, Total | <0.00022 | | 0.00050 | 0.00022 | mg/Kg | | | 01/21/21 11:01 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *91* | | *72 - 124* | | *01/21/21 11:01* | *1* |
| *Dibromofluoromethane (Surr)* | *86* | | *75 - 120* | | *01/21/21 11:01* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *75 - 126* | | *01/21/21 11:01* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *75 - 120* | | *01/21/21 11:01* | *1* |

**Lab Sample ID: LCS 500-581912/4**
**Matrix: Solid**
**Analysis Batch: 581912**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.0500 | 0.0493 | | mg/Kg | | 99 | 70 - 120 |
| Bromobenzene | 0.0500 | 0.0427 | | mg/Kg | | 85 | 70 - 122 |
| Bromochloromethane | 0.0500 | 0.0439 | | mg/Kg | | 88 | 65 - 122 |
| Bromodichloromethane | 0.0500 | 0.0411 | | mg/Kg | | 82 | 69 - 120 |
| Bromoform | 0.0500 | 0.0323 | | mg/Kg | | 65 | 56 - 132 |
| Bromomethane | 0.0500 | 0.0561 | | mg/Kg | | 112 | 40 - 152 |
| Carbon tetrachloride | 0.0500 | 0.0454 | | mg/Kg | | 91 | 59 - 133 |
| Chlorobenzene | 0.0500 | 0.0474 | | mg/Kg | | 95 | 70 - 120 |
| Chloroethane | 0.0500 | 0.0651 | | mg/Kg | | 130 | 48 - 136 |
| Chloroform | 0.0500 | 0.0455 | | mg/Kg | | 91 | 70 - 120 |
| Chloromethane | 0.0500 | 0.0648 | | mg/Kg | | 130 | 56 - 152 |
| 2-Chlorotoluene | 0.0500 | 0.0481 | | mg/Kg | | 96 | 70 - 125 |
| 4-Chlorotoluene | 0.0500 | 0.0465 | | mg/Kg | | 93 | 68 - 124 |
| cis-1,2-Dichloroethene | 0.0500 | 0.0446 | | mg/Kg | | 89 | 70 - 125 |
| cis-1,3-Dichloropropene | 0.0500 | 0.0417 | | mg/Kg | | 83 | 64 - 127 |
| Dibromochloromethane | 0.0500 | 0.0349 | | mg/Kg | | 70 | 68 - 125 |
| 1,2-Dibromo-3-Chloropropane | 0.0500 | 0.0301 | | mg/Kg | | 60 | 56 - 123 |
| 1,2-Dibromoethane | 0.0500 | 0.0408 | | mg/Kg | | 82 | 70 - 125 |
| Dibromomethane | 0.0500 | 0.0433 | | mg/Kg | | 87 | 70 - 120 |
| 1,2-Dichlorobenzene | 0.0500 | 0.0439 | | mg/Kg | | 88 | 70 - 125 |
| 1,3-Dichlorobenzene | 0.0500 | 0.0464 | | mg/Kg | | 93 | 70 - 125 |
| 1,4-Dichlorobenzene | 0.0500 | 0.0456 | | mg/Kg | | 91 | 70 - 120 |
| Dichlorodifluoromethane | 0.0500 | 0.0625 | | mg/Kg | | 125 | 40 - 159 |
| 1,1-Dichloroethane | 0.0500 | 0.0517 | | mg/Kg | | 103 | 70 - 125 |
| 1,2-Dichloroethane | 0.0500 | 0.0498 | | mg/Kg | | 100 | 68 - 127 |
| 1,1-Dichloroethene | 0.0500 | 0.0459 | | mg/Kg | | 92 | 67 - 122 |
| 1,2-Dichloropropane | 0.0500 | 0.0531 | | mg/Kg | | 106 | 67 - 130 |
| 1,3-Dichloropropane | 0.0500 | 0.0443 | | mg/Kg | | 89 | 62 - 136 |
| 2,2-Dichloropropane | 0.0500 | 0.0505 | | mg/Kg | | 101 | 58 - 139 |
| 1,1-Dichloropropene | 0.0500 | 0.0509 | | mg/Kg | | 102 | 70 - 121 |
| Ethylbenzene | 0.0500 | 0.0507 | | mg/Kg | | 101 | 70 - 123 |
| Hexachlorobutadiene | 0.0500 | 0.0532 | | mg/Kg | | 106 | 51 - 150 |
| Isopropylbenzene | 0.0500 | 0.0508 | | mg/Kg | | 102 | 70 - 126 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-581912/4**
**Matrix: Solid**
**Analysis Batch: 581912**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Methylene Chloride | 0.0500 | 0.0430 | | mg/Kg | | 86 | 69 - 125 |
| Methyl tert-butyl ether | 0.0500 | 0.0478 | | mg/Kg | | 96 | 55 - 123 |
| Naphthalene | 0.0500 | 0.0399 | | mg/Kg | | 80 | 53 - 144 |
| n-Butylbenzene | 0.0500 | 0.0514 | | mg/Kg | | 103 | 68 - 125 |
| N-Propylbenzene | 0.0500 | 0.0499 | | mg/Kg | | 100 | 69 - 127 |
| p-Isopropyltoluene | 0.0500 | 0.0518 | | mg/Kg | | 104 | 70 - 125 |
| sec-Butylbenzene | 0.0500 | 0.0512 | | mg/Kg | | 102 | 70 - 123 |
| Styrene | 0.0500 | 0.0475 | | mg/Kg | | 95 | 70 - 120 |
| tert-Butylbenzene | 0.0500 | 0.0497 | | mg/Kg | | 99 | 70 - 121 |
| 1,1,1,2-Tetrachloroethane | 0.0500 | 0.0436 | | mg/Kg | | 87 | 70 - 125 |
| 1,1,2,2-Tetrachloroethane | 0.0500 | 0.0382 | | mg/Kg | | 76 | 62 - 140 |
| Tetrachloroethene | 0.0500 | 0.0505 | | mg/Kg | | 101 | 70 - 128 |
| Toluene | 0.0500 | 0.0483 | | mg/Kg | | 97 | 70 - 125 |
| trans-1,2-Dichloroethene | 0.0500 | 0.0465 | | mg/Kg | | 93 | 70 - 125 |
| trans-1,3-Dichloropropene | 0.0500 | 0.0386 | | mg/Kg | | 77 | 62 - 128 |
| 1,2,3-Trichlorobenzene | 0.0500 | 0.0432 | | mg/Kg | | 86 | 51 - 145 |
| 1,2,4-Trichlorobenzene | 0.0500 | 0.0440 | | mg/Kg | | 88 | 57 - 137 |
| 1,1,1-Trichloroethane | 0.0500 | 0.0473 | | mg/Kg | | 95 | 70 - 125 |
| 1,1,2-Trichloroethane | 0.0500 | 0.0414 | | mg/Kg | | 83 | 71 - 130 |
| Trichloroethene | 0.0500 | 0.0476 | | mg/Kg | | 95 | 70 - 125 |
| Trichlorofluoromethane | 0.0500 | 0.0490 | | mg/Kg | | 98 | 55 - 128 |
| 1,2,3-Trichloropropane | 0.0500 | 0.0391 | | mg/Kg | | 78 | 50 - 133 |
| 1,2,4-Trimethylbenzene | 0.0500 | 0.0487 | | mg/Kg | | 97 | 70 - 123 |
| 1,3,5-Trimethylbenzene | 0.0500 | 0.0498 | | mg/Kg | | 100 | 70 - 123 |
| Vinyl chloride | 0.0500 | 0.0559 | | mg/Kg | | 112 | 64 - 126 |
| Xylenes, Total | 0.100 | 0.103 | | mg/Kg | | 103 | 70 - 125 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *92* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *91* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *96* | | *75 - 120* |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-581550/1-A**
**Matrix: Water**
**Analysis Batch: 581610**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 581550**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | <0.25 | | 0.80 | 0.25 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| Acenaphthylene | <0.21 | | 0.80 | 0.21 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| Anthracene | <0.27 | | 0.80 | 0.27 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| Benzo[a]anthracene | <0.045 | | 0.16 | 0.045 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| Benzo[a]pyrene | <0.079 | | 0.16 | 0.079 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| Benzo[b]fluoranthene | <0.065 | | 0.16 | 0.065 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| Benzo[g,h,i]perylene | <0.30 | | 0.80 | 0.30 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| Benzo[k]fluoranthene | <0.051 | | 0.16 | 0.051 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| Chrysene | <0.055 | | 0.16 | 0.055 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-581550/1-A**
**Matrix: Water**
**Analysis Batch: 581610**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 581550**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dibenz(a,h)anthracene | <0.041 | | 0.24 | 0.041 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| Fluoranthene | <0.36 | | 0.80 | 0.36 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| 1-Methylnaphthalene | <0.24 | | 1.6 | 0.24 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| Fluorene | <0.20 | | 0.80 | 0.20 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| 2-Methylnaphthalene | <0.052 | | 1.6 | 0.052 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.060 | | 0.16 | 0.060 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| Naphthalene | <0.25 | | 0.80 | 0.25 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| Phenanthrene | <0.24 | | 0.80 | 0.24 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |
| Pyrene | <0.34 | | 0.80 | 0.34 | ug/L | | 01/19/21 07:57 | 01/19/21 13:08 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *67* | | *34 - 110* | *01/19/21 07:57* | *01/19/21 13:08* | *1* |
| *Nitrobenzene-d5 (Surr)* | *65* | | *36 - 120* | *01/19/21 07:57* | *01/19/21 13:08* | *1* |
| *Terphenyl-d14 (Surr)* | *87* | | *40 - 145* | *01/19/21 07:57* | *01/19/21 13:08* | *1* |

**Lab Sample ID: LCS 500-581550/2-A**
**Matrix: Water**
**Analysis Batch: 581610**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 581550**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 32.0 | 25.8 | | ug/L | | 81 | 46 - 110 |
| Acenaphthylene | 32.0 | 25.6 | | ug/L | | 80 | 47 - 113 |
| Anthracene | 32.0 | 30.3 | | ug/L | | 95 | 67 - 118 |
| Benzo[a]anthracene | 32.0 | 28.4 | | ug/L | | 89 | 70 - 126 |
| Benzo[a]pyrene | 32.0 | 33.2 | | ug/L | | 104 | 70 - 135 |
| Benzo[b]fluoranthene | 32.0 | 31.8 | | ug/L | | 99 | 69 - 136 |
| Benzo[g,h,i]perylene | 32.0 | 31.3 | | ug/L | | 98 | 70 - 135 |
| Benzo[k]fluoranthene | 32.0 | 31.6 | | ug/L | | 99 | 70 - 133 |
| Chrysene | 32.0 | 27.5 | | ug/L | | 86 | 68 - 129 |
| Dibenz(a,h)anthracene | 32.0 | 33.6 | | ug/L | | 105 | 70 - 134 |
| Fluoranthene | 32.0 | 30.4 | | ug/L | | 95 | 68 - 126 |
| 1-Methylnaphthalene | 32.0 | 21.2 | | ug/L | | 66 | 38 - 110 |
| Fluorene | 32.0 | 27.8 | | ug/L | | 87 | 53 - 120 |
| 2-Methylnaphthalene | 32.0 | 21.3 | | ug/L | | 67 | 34 - 110 |
| Indeno[1,2,3-cd]pyrene | 32.0 | 32.8 | | ug/L | | 103 | 65 - 133 |
| Naphthalene | 32.0 | 20.6 | | ug/L | | 65 | 36 - 110 |
| Phenanthrene | 32.0 | 29.9 | | ug/L | | 93 | 65 - 120 |
| Pyrene | 32.0 | 28.2 | | ug/L | | 88 | 70 - 126 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *91* | | *34 - 110* |
| *Nitrobenzene-d5 (Surr)* | *88* | | *36 - 120* |
| *Terphenyl-d14 (Surr)* | *97* | | *40 - 145* |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 500-581550/3-A**
**Matrix: Water**
**Analysis Batch: 581610**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 581550**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | | | 32.0 | 25.5 | | ug/L | | 80 | 46 - 110 | 1 | 20 |
| Acenaphthylene | | | 32.0 | 25.4 | | ug/L | | 80 | 47 - 113 | 0 | 20 |
| Anthracene | | | 32.0 | 30.5 | | ug/L | | 95 | 67 - 118 | 0 | 20 |
| Benzo[a]anthracene | | | 32.0 | 29.7 | | ug/L | | 93 | 70 - 126 | 5 | 20 |
| Benzo[a]pyrene | | | 32.0 | 34.5 | | ug/L | | 108 | 70 - 135 | 4 | 20 |
| Benzo[b]fluoranthene | | | 32.0 | 33.7 | | ug/L | | 105 | 69 - 136 | 6 | 20 |
| Benzo[g,h,i]perylene | | | 32.0 | 32.6 | | ug/L | | 102 | 70 - 135 | 4 | 20 |
| Benzo[k]fluoranthene | | | 32.0 | 33.9 | | ug/L | | 106 | 70 - 133 | 7 | 20 |
| Chrysene | | | 32.0 | 28.2 | | ug/L | | 88 | 68 - 129 | 3 | 20 |
| Dibenz(a,h)anthracene | | | 32.0 | 35.2 | | ug/L | | 110 | 70 - 134 | 5 | 20 |
| Fluoranthene | | | 32.0 | 30.8 | | ug/L | | 96 | 68 - 126 | 1 | 20 |
| 1-Methylnaphthalene | | | 32.0 | 21.3 | | ug/L | | 66 | 38 - 110 | 0 | 20 |
| Fluorene | | | 32.0 | 28.4 | | ug/L | | 89 | 53 - 120 | 2 | 20 |
| 2-Methylnaphthalene | | | 32.0 | 21.3 | | ug/L | | 66 | 34 - 110 | 0 | 20 |
| Indeno[1,2,3-cd]pyrene | | | 32.0 | 34.1 | | ug/L | | 106 | 65 - 133 | 4 | 20 |
| Naphthalene | | | 32.0 | 20.4 | | ug/L | | 64 | 36 - 110 | 1 | 20 |
| Phenanthrene | | | 32.0 | 30.2 | | ug/L | | 94 | 65 - 120 | 1 | 20 |
| Pyrene | | | 32.0 | 29.0 | | ug/L | | 91 | 70 - 126 | 3 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *90* | | *34 - 110* |
| *Nitrobenzene-d5 (Surr)* | *90* | | *36 - 120* |
| *Terphenyl-d14 (Surr)* | *103* | | *40 - 145* |

**Lab Sample ID: MB 500-582279/1-A**
**Matrix: Solid**
**Analysis Batch: 582386**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 582279**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | <0.0060 | | 0.033 | 0.0060 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Acenaphthylene | <0.0044 | | 0.033 | 0.0044 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Anthracene | <0.0056 | | 0.033 | 0.0056 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Benzo[a]anthracene | <0.0045 | | 0.033 | 0.0045 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Benzo[a]pyrene | <0.0064 | | 0.033 | 0.0064 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Benzo[b]fluoranthene | <0.0072 | | 0.033 | 0.0072 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Benzo[g,h,i]perylene | <0.011 | | 0.033 | 0.011 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Benzo[k]fluoranthene | <0.0098 | | 0.033 | 0.0098 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Chrysene | <0.0091 | | 0.033 | 0.0091 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Dibenz(a,h)anthracene | <0.0064 | | 0.033 | 0.0064 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Fluoranthene | <0.0062 | | 0.033 | 0.0062 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| 1-Methylnaphthalene | <0.0081 | | 0.067 | 0.0081 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Fluorene | <0.0047 | | 0.033 | 0.0047 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| 2-Methylnaphthalene | <0.0061 | | 0.067 | 0.0061 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.0086 | | 0.033 | 0.0086 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Naphthalene | <0.0051 | | 0.033 | 0.0051 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Phenanthrene | <0.0046 | | 0.033 | 0.0046 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Pyrene | <0.0066 | | 0.033 | 0.0066 | mg/Kg | | 01/25/21 07:50 | 01/25/21 19:12 | 1 |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-582279/1-A**
**Matrix: Solid**
**Analysis Batch: 582386**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 582279**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 2-Fluorobiphenyl (Surr) | 95 | | 43 - 145 | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Nitrobenzene-d5 (Surr) | 101 | | 37 - 147 | 01/25/21 07:50 | 01/25/21 19:12 | 1 |
| Terphenyl-d14 (Surr) | 88 | | 42 - 157 | 01/25/21 07:50 | 01/25/21 19:12 | 1 |

**Lab Sample ID: LCS 500-582279/2-A**
**Matrix: Solid**
**Analysis Batch: 582386**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 582279**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1.33 | 1.20 | | mg/Kg | | 90 | 65 - 124 |
| Acenaphthylene | 1.33 | 1.14 | | mg/Kg | | 85 | 68 - 120 |
| Anthracene | 1.33 | 1.19 | | mg/Kg | | 89 | 70 - 114 |
| Benzo[a]anthracene | 1.33 | 1.13 | | mg/Kg | | 85 | 67 - 122 |
| Benzo[a]pyrene | 1.33 | 1.30 | | mg/Kg | | 98 | 65 - 133 |
| Benzo[b]fluoranthene | 1.33 | 1.27 | | mg/Kg | | 95 | 69 - 129 |
| Benzo[g,h,i]perylene | 1.33 | 1.46 | | mg/Kg | | 109 | 72 - 131 |
| Benzo[k]fluoranthene | 1.33 | 1.35 | | mg/Kg | | 101 | 68 - 127 |
| Chrysene | 1.33 | 1.13 | | mg/Kg | | 85 | 63 - 120 |
| Dibenz(a,h)anthracene | 1.33 | 1.37 | | mg/Kg | | 103 | 64 - 131 |
| Fluoranthene | 1.33 | 1.21 | | mg/Kg | | 91 | 62 - 120 |
| 1-Methylnaphthalene | 1.33 | 1.21 | | mg/Kg | | 91 | 68 - 111 |
| Fluorene | 1.33 | 1.18 | | mg/Kg | | 89 | 62 - 120 |
| 2-Methylnaphthalene | 1.33 | 1.29 | | mg/Kg | | 96 | 69 - 112 |
| Indeno[1,2,3-cd]pyrene | 1.33 | 1.36 | | mg/Kg | | 102 | 68 - 130 |
| Naphthalene | 1.33 | 1.19 | | mg/Kg | | 89 | 63 - 110 |
| Phenanthrene | 1.33 | 1.19 | | mg/Kg | | 89 | 62 - 120 |
| Pyrene | 1.33 | 1.12 | | mg/Kg | | 84 | 61 - 128 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 2-Fluorobiphenyl (Surr) | 97 | | 43 - 145 |
| Nitrobenzene-d5 (Surr) | 102 | | 37 - 147 |
| Terphenyl-d14 (Surr) | 90 | | 42 - 157 |

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 500-582384/1-A**
**Matrix: Solid**
**Analysis Batch: 583012**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 582384**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.34 | | 1.0 | 0.34 | mg/Kg | | 01/25/21 17:09 | 01/28/21 09:26 | 1 |
| Barium | <0.11 | | 1.0 | 0.11 | mg/Kg | | 01/25/21 17:09 | 01/28/21 09:26 | 1 |
| Cadmium | 0.0439 | J | 0.20 | 0.036 | mg/Kg | | 01/25/21 17:09 | 01/28/21 09:26 | 1 |
| Chromium | <0.50 | | 1.0 | 0.50 | mg/Kg | | 01/25/21 17:09 | 01/28/21 09:26 | 1 |
| Lead | <0.23 | | 0.50 | 0.23 | mg/Kg | | 01/25/21 17:09 | 01/28/21 09:26 | 1 |
| Selenium | <0.59 | | 1.0 | 0.59 | mg/Kg | | 01/25/21 17:09 | 01/28/21 09:26 | 1 |
| Silver | <0.13 | | 0.50 | 0.13 | mg/Kg | | 01/25/21 17:09 | 01/28/21 09:26 | 1 |

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: LCS 500-582384/2-A**
**Matrix: Solid**
**Analysis Batch: 583012**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 582384**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 10.0 | 9.38 | | mg/Kg | | 94 | 80 - 120 |
| Barium | 200 | 206 | | mg/Kg | | 103 | 80 - 120 |
| Cadmium | 5.00 | 4.74 | | mg/Kg | | 95 | 80 - 120 |
| Chromium | 20.0 | 19.2 | | mg/Kg | | 96 | 80 - 120 |
| Lead | 10.0 | 9.13 | | mg/Kg | | 91 | 80 - 120 |
| Selenium | 10.0 | 8.87 | | mg/Kg | | 89 | 80 - 120 |
| Silver | 5.00 | 4.88 | | mg/Kg | | 98 | 80 - 120 |

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: LCS 500-581477/2-A**
**Matrix: Water**
**Analysis Batch: 581637**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 581477**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 100 | 97.3 | | ug/L | | 97 | 80 - 120 |
| Barium | 500 | 519 | | ug/L | | 104 | 80 - 120 |
| Cadmium | 50.0 | 49.2 | | ug/L | | 98 | 80 - 120 |
| Chromium | 200 | 207 | | ug/L | | 103 | 80 - 120 |
| Lead | 100 | 106 | | ug/L | | 106 | 80 - 120 |
| Selenium | 100 | 97.1 | | ug/L | | 97 | 80 - 120 |
| Silver | 50.0 | 48.7 | | ug/L | | 97 | 80 - 120 |

**Lab Sample ID: MB 500-581331/1-B**
**Matrix: Water**
**Analysis Batch: 581637**

**Client Sample ID: Method Blank**
**Prep Type: Dissolved**
**Prep Batch: 581477**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.23 | | 1.0 | 0.23 | ug/L | | 01/18/21 17:45 | 01/19/21 13:47 | 1 |
| Barium | <0.73 | | 2.5 | 0.73 | ug/L | | 01/18/21 17:45 | 01/19/21 13:47 | 1 |
| Cadmium | <0.17 | | 0.50 | 0.17 | ug/L | | 01/18/21 17:45 | 01/19/21 13:47 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 01/18/21 17:45 | 01/19/21 13:47 | 1 |
| Lead | <0.19 | | 0.50 | 0.19 | ug/L | | 01/18/21 17:45 | 01/19/21 13:47 | 1 |
| Selenium | <0.98 | | 2.5 | 0.98 | ug/L | | 01/18/21 17:45 | 01/19/21 13:47 | 1 |
| Silver | <0.12 | | 0.50 | 0.12 | ug/L | | 01/18/21 17:45 | 01/19/21 13:47 | 1 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-582319/12-A**
**Matrix: Water**
**Analysis Batch: 582477**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 582319**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.098 | | 0.20 | 0.098 | ug/L | | 01/25/21 09:40 | 01/26/21 08:33 | 1 |

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 500-582319/13-A**
**Matrix: Water**
**Analysis Batch: 582477**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 582319**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 2.00 | 2.04 | | ug/L | | 102 | 80 - 120 |

**Lab Sample ID: MB 500-581331/1-D**
**Matrix: Water**
**Analysis Batch: 582477**

**Client Sample ID: Method Blank**
**Prep Type: Dissolved**
**Prep Batch: 582319**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.098 | | 0.20 | 0.098 | ug/L | | 01/25/21 09:40 | 01/26/21 08:38 | 1 |

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 500-582321/12-A**
**Matrix: Solid**
**Analysis Batch: 582467**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 582321**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.0056 | | 0.017 | 0.0056 | mg/Kg | | 01/25/21 12:50 | 01/26/21 08:25 | 1 |

**Lab Sample ID: LCS 500-582321/13-A**
**Matrix: Solid**
**Analysis Batch: 582467**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 582321**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.167 | 0.177 | | mg/Kg | | 106 | 80 - 120 |

## Method: 218.6 - Chromium, Hexavalent (Ion Chromatography)

**Lab Sample ID: MB 500-583010/3**
**Matrix: Water**
**Analysis Batch: 583010**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | <0.23 | | 0.30 | 0.23 | ug/L | | | 01/29/21 08:06 | 1 |

**Lab Sample ID: LCS 500-583010/4**
**Matrix: Water**
**Analysis Batch: 583010**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | 25.0 | 23.1 | | ug/L | | 93 | 90 - 110 |

## Method: 7196A - Chromium, Hexavalent

**Lab Sample ID: MB 500-581626/1-A**
**Matrix: Solid**
**Analysis Batch: 582034**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 581626**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | <0.39 | | 1.0 | 0.39 | mg/Kg | | 01/19/21 13:07 | 01/21/21 14:54 | 1 |

## Method: 7196A - Chromium, Hexavalent (Continued)

**Lab Sample ID: LCS 500-581626/2-A**
**Matrix: Solid**
**Analysis Batch: 582034**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 581626**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | 10.0 | 9.30 | | mg/Kg | | 93 | 80 - 120 |

**Lab Sample ID: LCS 500-581626/3-A**
**Matrix: Solid**
**Analysis Batch: 582034**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 581626**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | 1260 | 1210 | | mg/Kg | | 96 | 80 - 120 |

**Lab Sample ID: 500-193856-3 MS**
**Matrix: Solid**
**Analysis Batch: 582034**

**Client Sample ID: TRG SB-3 (2-4')**
**Prep Type: Total/NA**
**Prep Batch: 581626**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | 1.4 | | 42.9 | 39.2 | | mg/Kg | ☼ | 88 | 75 - 125 |

**Lab Sample ID: 500-193856-3 MS**
**Matrix: Solid**
**Analysis Batch: 582034**

**Client Sample ID: TRG SB-3 (2-4')**
**Prep Type: Total/NA**
**Prep Batch: 581626**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | 1.4 | | 1230 | 1260 | | mg/Kg | ☼ | 102 | 75 - 125 |

**Lab Sample ID: 500-193856-3 MSD**
**Matrix: Solid**
**Analysis Batch: 582034**

**Client Sample ID: TRG SB-3 (2-4')**
**Prep Type: Total/NA**
**Prep Batch: 581626**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | 1.4 | | 42.7 | 41.2 | | mg/Kg | ☼ | 93 | 75 - 125 | 5 | 30 |

**Lab Sample ID: 500-193856-3 MSD**
**Matrix: Solid**
**Analysis Batch: 582034**

**Client Sample ID: TRG SB-3 (2-4')**
**Prep Type: Total/NA**
**Prep Batch: 581626**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | 1.4 | | 1310 | 1320 | | mg/Kg | ☼ | 101 | 75 - 125 | 5 | 30 |

## Method: SM 4500 H+ B - pH

**Lab Sample ID: 500-193856-4 DU**
**Matrix: Water**
**Analysis Batch: 582650**

**Client Sample ID: TRG TW-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| pH | 7.4 | HF | 7.4 | | SU | | 0.3 | |

# Lab Chronicle

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

## Client Sample ID: TRG SB-1 (1-3')
**Date Collected: 01/15/21 12:30**
**Date Received: 01/16/21 09:45**

## Lab Sample ID: 500-193856-1
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 581622 | 01/19/21 13:48 | LWN | TAL CHI |

## Client Sample ID: TRG SB-1 (1-3')
**Date Collected: 01/15/21 12:30**
**Date Received: 01/16/21 09:45**

## Lab Sample ID: 500-193856-1
**Matrix: Solid**
**Percent Solids: 84.6**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 581693 | 01/15/21 12:30 | WRE | TAL CHI |
| Total/NA | Analysis | 8260B | | 50 | 581912 | 01/21/21 11:28 | PMF | TAL CHI |
| Total/NA | Prep | 3541 | | | 582279 | 01/25/21 07:50 | BSO | TAL CHI |
| Total/NA | Analysis | 8270D | | 1 | 582386 | 01/25/21 22:59 | NRJ | TAL CHI |
| Total/NA | Prep | 3050B | | | 582384 | 01/25/21 17:09 | BDE | TAL CHI |
| Total/NA | Analysis | 6010C | | 1 | 583012 | 01/28/21 10:19 | EEN | TAL CHI |
| Total/NA | Prep | 7471A | | | 582321 | 01/25/21 12:50 | MJG | TAL CHI |
| Total/NA | Analysis | 7471A | | 1 | 582467 | 01/26/21 08:52 | MJG | TAL CHI |
| Total/NA | Prep | 3060A | | | 581626 | 01/19/21 13:07 | EAT | TAL CHI |
| Total/NA | Analysis | 7196A | | 1 | 582034 | 01/21/21 14:56 | EAT | TAL CHI |

## Client Sample ID: TRG SB-2 (2-4')
**Date Collected: 01/15/21 13:00**
**Date Received: 01/16/21 09:45**

## Lab Sample ID: 500-193856-2
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 581622 | 01/19/21 13:48 | LWN | TAL CHI |

## Client Sample ID: TRG SB-2 (2-4')
**Date Collected: 01/15/21 13:00**
**Date Received: 01/16/21 09:45**

## Lab Sample ID: 500-193856-2
**Matrix: Solid**
**Percent Solids: 89.5**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 581693 | 01/15/21 13:00 | WRE | TAL CHI |
| Total/NA | Analysis | 8260B | | 50 | 581912 | 01/21/21 11:55 | PMF | TAL CHI |
| Total/NA | Prep | 3541 | | | 582279 | 01/25/21 07:50 | BSO | TAL CHI |
| Total/NA | Analysis | 8270D | | 1 | 582386 | 01/25/21 21:51 | NRJ | TAL CHI |
| Total/NA | Prep | 3050B | | | 582384 | 01/25/21 17:09 | BDE | TAL CHI |
| Total/NA | Analysis | 6010C | | 1 | 583012 | 01/28/21 10:22 | EEN | TAL CHI |
| Total/NA | Prep | 7471A | | | 582321 | 01/25/21 12:50 | MJG | TAL CHI |
| Total/NA | Analysis | 7471A | | 1 | 582467 | 01/26/21 08:54 | MJG | TAL CHI |
| Total/NA | Prep | 3060A | | | 581626 | 01/19/21 13:07 | EAT | TAL CHI |
| Total/NA | Analysis | 7196A | | 1 | 582034 | 01/21/21 14:56 | EAT | TAL CHI |

# Lab Chronicle

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

## Client Sample ID: TRG SB-3 (2-4')
**Date Collected: 01/15/21 13:30**
**Date Received: 01/16/21 09:45**

**Lab Sample ID: 500-193856-3**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 581622 | 01/19/21 13:48 | LWN | TAL CHI |

## Client Sample ID: TRG SB-3 (2-4')
**Date Collected: 01/15/21 13:30**
**Date Received: 01/16/21 09:45**

**Lab Sample ID: 500-193856-3**
**Matrix: Solid**
**Percent Solids: 91.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 581693 | 01/15/21 13:30 | WRE | TAL CHI |
| Total/NA | Analysis | 8260B | | 50 | 581912 | 01/21/21 12:22 | PMF | TAL CHI |
| Total/NA | Prep | 3541 | | | 582279 | 01/25/21 07:50 | BSO | TAL CHI |
| Total/NA | Analysis | 8270D | | 1 | 582386 | 01/25/21 22:14 | NRJ | TAL CHI |
| Total/NA | Prep | 3050B | | | 582384 | 01/25/21 17:09 | BDE | TAL CHI |
| Total/NA | Analysis | 6010C | | 1 | 583012 | 01/28/21 11:09 | EEN | TAL CHI |
| Total/NA | Prep | 7471A | | | 582321 | 01/25/21 12:50 | MJG | TAL CHI |
| Total/NA | Analysis | 7471A | | 1 | 582467 | 01/26/21 08:56 | MJG | TAL CHI |
| Total/NA | Prep | 3060A | | | 581626 | 01/19/21 13:07 | EAT | TAL CHI |
| Total/NA | Analysis | 7196A | | 1 | 582034 | 01/21/21 14:56 | EAT | TAL CHI |

## Client Sample ID: TRG TW-1
**Date Collected: 01/15/21 14:00**
**Date Received: 01/16/21 09:45**

**Lab Sample ID: 500-193856-4**
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 581724 | 01/20/21 17:39 | PMF | TAL CHI |
| Total/NA | Prep | 3510C | | | 581550 | 01/19/21 07:57 | CMC | TAL CHI |
| Total/NA | Analysis | 8270D | | 1 | 581610 | 01/19/21 13:36 | AJD | TAL CHI |
| Dissolved | Filtration | FILTRATION | | | 581331 | 01/18/21 06:43 | LMN | TAL CHI |
| Dissolved | Prep | 3005A | | | 581477 | 01/18/21 17:45 | BDE | TAL CHI |
| Dissolved | Analysis | 6020A | | 1 | 581637 | 01/19/21 13:50 | FXG | TAL CHI |
| Dissolved | Filtration | FILTRATION | | | 581331 | 01/18/21 06:43 | LMN | TAL CHI |
| Dissolved | Prep | 7470A | | | 582319 | 01/25/21 09:40 | MJG | TAL CHI |
| Dissolved | Analysis | 7470A | | 1 | 582477 | 01/26/21 08:40 | MJG | TAL CHI |
| Dissolved | Filtration | Filtration | | | 583050 | 01/16/21 12:33 | EAT | TAL CHI |
| Dissolved | Analysis | 218.6 | | 1 | 583010 | 01/29/21 08:32 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 582650 | | SMO | TAL CHI |
| | | | | | (Start) | 01/27/21 15:21 | | |
| | | | | | (End) | 01/27/21 15:24 | | |

## Client Sample ID: TB01
**Date Collected: 01/15/21 14:30**
**Date Received: 01/16/21 09:45**

**Lab Sample ID: 500-193856-5**
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 581724 | 01/20/21 18:05 | PMF | TAL CHI |

# Lab Chronicle

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

**Laboratory References:**

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Accreditation/Certification Summary

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-193856-1

## Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Wisconsin | State | 999580010 | 08-31-21 |

**Eurofins TestAmerica, Chicago**
2417 Bond Street
University Park IL 60484
Phone 708-534 5200 Fax 708 534 5211

# Chain of Custody Record

eurofins

| Client Information | Sampler: Lee Kimbell | Lab PM: Fredrick Sandie | Carrier Tracking No(s): | COC No: 500-88600-39682 1 |
|---|---|---|---|---|
| Client Contact: Lee Kimbell | Phone: 2702108583 | E-Mail: sandra.fredrick@eurofinset.com | State of Origin: WI | Page: Page 1 of 1 |
| Company: The Reese Group LLC | PWS D: | Analysis Requested | | Job #: 500-1938856 |

| | | | |
|---|---|---|---|
| Address: 1433 North Water Street Suite 400 | Due Date Requested: | | Preservation Codes: A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4, Z other specify; Other: |
| City: Milwaukee | TAT Requested (days): Normal | | |
| State, Zip: WI 53202 | Compliance Project: Δ Yes Δ No | | |
| Phone: 414-719-1477(Tel) | PO #: Purchase Order not required | | |
| Email: lkimbell@the-reese-group.com | WO #: | | |
| Project Name: Millenium Tile | Project #: 50008700 | | |
| Site: 550 E Centralia St | SSOW#: | | |

500-193856 COC

| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6010C, 7196A, 7471A, 8270D | 8260B VOC | 8270D PAH | 6020A, 7470A | 8260B VOC | 218.6 Chromium, Hexavalent (IC) | Total Number of containers | Special Instructions/Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | N | N | N | N | A | N | | |
| 1 TRG SB-1 (1-3') | 1/15/21 | 1230 | G | Solid | N | | X | X | | | | | | |
| 2 TRG SB-2 (2-4') | | 1300 | G | Solid | N | | X | X | | | | | | |
| 3 TRG SB-3 (2-4') | | 1330 | G | Solid | N | | X | X | | | | | | RCRA sample |
| 4 TRG TW-1 | | 1400 | G | ~~Solid~~ Water | N | | | | X | X | X | X | | Not Filtered (unpreserved). |
| 5 TB01 | | 1430 | | ~~Solid~~ Water | | | | X | | | | | | filter for Metals in lab |
| | | | | Water | | | | | | | | | | |
| | | | | Water | | | | | | | | | | |
| | | | | Water | | | | | | | | | | |
| | | | | Water | | | | | | | | | | |
| | | | | Water | | | | | | | | | | |
| | | | | | | | | | | | | | | |

**Possible Hazard Identification**
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I II III IV Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by | Date | Time | Method of Shipment |
|---|---|---|---|
| | | | |

| | Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
|---|---|---|---|---|---|---|
| 1 | | 1/15/21 3.30 | TRG | Stephanie Hernandez | 1/16/21 0945 | ETA-CHI |
| 2 | Relinquished by | Date/Time: | Company | Received by | Date/Time | Company |
| 3 | Relinquished by | Date/Time: | Company | Received by | Date/Time | Company |

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No:

Cooler Temperatures °C and Other Remarks: 3.4 / 1.5


TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
ORIGIN ID:RRLA (262) 202-5955
LEE KIMBELL
THE REESE GROUP
1433 N WATER ST.
SUITE 400
MILWAUKEE, WI 53202
UNITED STATES US
SHIP DATE: 07JAN21
ACTWGT: 25.00 LB MAN
CAD: 525155/CAFE3406
500-193856 Wayb
TO
TESTAMERICA CHICAGO
2417 BOND STREET
UNIVERSITY PARK IL 60484-3101
(708) 534-5200
REF:
INV:
PO:
DEPT
RMA
FedEx
Express
SATURDAY 12:00P
PRIORITY OVERNIGHT
FedEx
TRK#
0221 7125 4943 9042
60484
IL-US
ORD
X0 JOTA
197874 15JAN21 MKEA 56DC1/1136/05A2

# Login Sample Receipt Checklist

Client: The Reese Group, LLC

Job Number: 500-193856-1

**Login Number: 193856**
**List Number: 1**
**Creator: Hernandez, Stephanie**

**List Source: Eurofins TestAmerica, Chicago**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 1.5 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

eurofins | Environment Testing America

# ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-194096-1
Client Project/Site: Millennium Tile

For:
The Reese Group, LLC
1433 North Water Street, Suite 400
Milwaukee, Wisconsin 53202

Attn: Christine Reese

Jodie Bracken

*Authorized for release by:*
*2/5/2021 3:13:31 PM*
Jodie Bracken, Project Management Assistant II
Jodie.Bracken@Eurofinset.com

Designee for

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

# Table of Contents

## Job ID: 500-194096-1

### Laboratory: Eurofins TestAmerica, Chicago

**Narrative**

**Job Narrative**
**500-194096-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 1/23/2021 10:25 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.8º C.

**GC/MS VOA**
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**GC/MS Semi VOA**
Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-582450 and analytical batch 500-582469 recovered outside control limits for the following analytes: Acenaphthene, Acenaphthylene, 2-Methylnaphthalene, Naphthalene and 1-Methylnaphthalene.

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

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

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

**Organic Prep**
Methods 3510C, 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 500-582450.

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

# Detection Summary

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

## Client Sample ID: TRG TW-2 — Lab Sample ID: 500-194096-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 1.4 | | 1.0 | 0.41 | ug/L | 1 | | 8260B | Total/NA |
| Vinyl chloride | 1.3 | | 1.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| Arsenic | 0.85 | J | 1.0 | 0.23 | ug/L | 1 | | 6020A | Dissolved |
| Barium | 37 | | 2.5 | 0.73 | ug/L | 1 | | 6020A | Dissolved |
| Chromium | 11 | | 5.0 | 1.1 | ug/L | 1 | | 6020A | Dissolved |
| pH | 9.9 | HF | 0.2 | 0.2 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Chromium, hexavalent | 12 | | 0.30 | 0.23 | ug/L | 1 | | 218.6 | Dissolved |

## Client Sample ID: TRG TW-3 — Lab Sample ID: 500-194096-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 1.7 | | 1.0 | 0.41 | ug/L | 1 | | 8260B | Total/NA |
| Vinyl chloride | 2.0 | | 1.0 | 0.20 | ug/L | 1 | | 8260B | Total/NA |
| Arsenic | 1.0 | | 1.0 | 0.23 | ug/L | 1 | | 6020A | Dissolved |
| Barium | 63 | | 2.5 | 0.73 | ug/L | 1 | | 6020A | Dissolved |
| Chromium | 280 | | 5.0 | 1.1 | ug/L | 1 | | 6020A | Dissolved |
| Lead | 0.71 | | 0.50 | 0.19 | ug/L | 1 | | 6020A | Dissolved |
| pH | 8.0 | HF | 0.2 | 0.2 | SU | 1 | | SM 4500 H+ B | Total/NA |
| Chromium, hexavalent | 390 | F1 | 3.0 | 2.3 | ug/L | 10 | | 218.6 | Dissolved |

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL CHI |
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL CHI |
| 6020A | Metals (ICP/MS) | SW846 | TAL CHI |
| 7470A | Mercury (CVAA) | SW846 | TAL CHI |
| 218.6 | Chromium, Hexavalent (Ion Chromatography) | EPA | TAL CHI |
| SM 4500 H+ B | pH | SM | TAL CHI |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | TAL CHI |
| 3510C | Liquid-Liquid Extraction (Separatory Funnel) | SW846 | TAL CHI |
| 5030B | Purge and Trap | SW846 | TAL CHI |
| 7470A | Preparation, Mercury | SW846 | TAL CHI |
| FILTRATION | Sample Filtration | None | TAL CHI |

**Protocol References:**

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Sample Summary

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---|---|---|---|---|---|
| 500-194096-1 | TRG TW-2 | Water | 01/22/21 14:30 | 01/23/21 10:25 | |
| 500-194096-2 | TRG TW-3 | Water | 01/22/21 15:00 | 01/23/21 10:25 | |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

## Client Sample ID: TRG TW-2

**Date Collected: 01/22/21 14:30**
**Date Received: 01/23/21 10:25**

## Lab Sample ID: 500-194096-1

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.15 | | 0.50 | 0.15 | ug/L | | | 01/27/21 14:45 | 1 |
| Bromobenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 14:45 | 1 |
| Bromochloromethane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/27/21 14:45 | 1 |
| Bromodichloromethane | <0.37 | | 1.0 | 0.37 | ug/L | | | 01/27/21 14:45 | 1 |
| Bromoform | <0.48 | | 1.0 | 0.48 | ug/L | | | 01/27/21 14:45 | 1 |
| Bromomethane | <0.80 | | 3.0 | 0.80 | ug/L | | | 01/27/21 14:45 | 1 |
| Carbon tetrachloride | <0.38 | | 1.0 | 0.38 | ug/L | | | 01/27/21 14:45 | 1 |
| Chlorobenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 14:45 | 1 |
| Chloroethane | <0.51 | | 1.0 | 0.51 | ug/L | | | 01/27/21 14:45 | 1 |
| Chloroform | <0.37 | | 2.0 | 0.37 | ug/L | | | 01/27/21 14:45 | 1 |
| Chloromethane | <0.32 | | 1.0 | 0.32 | ug/L | | | 01/27/21 14:45 | 1 |
| 2-Chlorotoluene | <0.31 | | 1.0 | 0.31 | ug/L | | | 01/27/21 14:45 | 1 |
| 4-Chlorotoluene | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/27/21 14:45 | 1 |
| **cis-1,2-Dichloroethene** | **1.4** | | 1.0 | 0.41 | ug/L | | | 01/27/21 14:45 | 1 |
| cis-1,3-Dichloropropene | <0.42 | | 1.0 | 0.42 | ug/L | | | 01/27/21 14:45 | 1 |
| Dibromochloromethane | <0.49 | | 1.0 | 0.49 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,2-Dibromo-3-Chloropropane | <2.0 | | 5.0 | 2.0 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,2-Dibromoethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 14:45 | 1 |
| Dibromomethane | <0.27 | | 1.0 | 0.27 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,2-Dichlorobenzene | <0.33 | | 1.0 | 0.33 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,3-Dichlorobenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,4-Dichlorobenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 14:45 | 1 |
| Dichlorodifluoromethane | <0.67 | | 3.0 | 0.67 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,1-Dichloroethane | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,2-Dichloroethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,1-Dichloroethene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,2-Dichloropropane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,3-Dichloropropane | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 14:45 | 1 |
| 2,2-Dichloropropane | <0.44 | | 1.0 | 0.44 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,1-Dichloropropene | <0.30 | | 1.0 | 0.30 | ug/L | | | 01/27/21 14:45 | 1 |
| Ethylbenzene | <0.18 | | 0.50 | 0.18 | ug/L | | | 01/27/21 14:45 | 1 |
| Hexachlorobutadiene | <0.45 | | 1.0 | 0.45 | ug/L | | | 01/27/21 14:45 | 1 |
| Isopropylbenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 14:45 | 1 |
| Isopropyl ether | <0.28 | | 1.0 | 0.28 | ug/L | | | 01/27/21 14:45 | 1 |
| Methylene Chloride | <1.6 | | 5.0 | 1.6 | ug/L | | | 01/27/21 14:45 | 1 |
| Methyl tert-butyl ether | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 14:45 | 1 |
| Naphthalene | <0.34 | | 1.0 | 0.34 | ug/L | | | 01/27/21 14:45 | 1 |
| n-Butylbenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 14:45 | 1 |
| N-Propylbenzene | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/27/21 14:45 | 1 |
| p-Isopropyltoluene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 14:45 | 1 |
| sec-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/27/21 14:45 | 1 |
| Styrene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 14:45 | 1 |
| tert-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.46 | | 1.0 | 0.46 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/27/21 14:45 | 1 |
| Tetrachloroethene | <0.37 | | 1.0 | 0.37 | ug/L | | | 01/27/21 14:45 | 1 |
| Toluene | <0.15 | | 0.50 | 0.15 | ug/L | | | 01/27/21 14:45 | 1 |
| trans-1,2-Dichloroethene | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/27/21 14:45 | 1 |
| trans-1,3-Dichloropropene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 14:45 | 1 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

## Client Sample ID: TRG TW-2

**Date Collected: 01/22/21 14:30**
**Date Received: 01/23/21 10:25**

## Lab Sample ID: 500-194096-1

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | <0.46 | | 1.0 | 0.46 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,2,4-Trichlorobenzene | <0.34 | | 1.0 | 0.34 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,1,1-Trichloroethane | <0.38 | | 1.0 | 0.38 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,1,2-Trichloroethane | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/27/21 14:45 | 1 |
| Trichloroethene | <0.16 | | 0.50 | 0.16 | ug/L | | | 01/27/21 14:45 | 1 |
| Trichlorofluoromethane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,2,3-Trichloropropane | <0.41 | | 2.0 | 0.41 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,2,4-Trimethylbenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 14:45 | 1 |
| 1,3,5-Trimethylbenzene | <0.25 | | 1.0 | 0.25 | ug/L | | | 01/27/21 14:45 | 1 |
| **Vinyl chloride** | **1.3** | | 1.0 | 0.20 | ug/L | | | 01/27/21 14:45 | 1 |
| Xylenes, Total | <0.22 | | 1.0 | 0.22 | ug/L | | | 01/27/21 14:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *90* | | *72 - 124* | | *01/27/21 14:45* | *1* |
| *Dibromofluoromethane (Surr)* | *87* | | *75 - 120* | | *01/27/21 14:45* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *75 - 126* | | *01/27/21 14:45* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *75 - 120* | | *01/27/21 14:45* | *1* |

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | <0.31 | *1 | 2.0 | 0.31 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| 2-Methylnaphthalene | <0.067 | *1 | 2.0 | 0.067 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Acenaphthene | <0.32 | *1 | 1.0 | 0.32 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Acenaphthylene | <0.27 | *1 | 1.0 | 0.27 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Anthracene | <0.34 | | 1.0 | 0.34 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Benzo[a]anthracene | <0.058 | | 0.20 | 0.058 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Benzo[a]pyrene | <0.10 | | 0.20 | 0.10 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Benzo[b]fluoranthene | <0.082 | | 0.20 | 0.082 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Benzo[g,h,i]perylene | <0.38 | | 1.0 | 0.38 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Benzo[k]fluoranthene | <0.065 | | 0.20 | 0.065 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Chrysene | <0.070 | | 0.20 | 0.070 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Dibenz(a,h)anthracene | <0.052 | | 0.31 | 0.052 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Fluoranthene | <0.46 | | 1.0 | 0.46 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Fluorene | <0.25 | | 1.0 | 0.25 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.076 | | 0.20 | 0.076 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Naphthalene | <0.32 | *1 | 1.0 | 0.32 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Phenanthrene | <0.31 | | 1.0 | 0.31 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |
| Pyrene | <0.44 | | 1.0 | 0.44 | ug/L | | 01/26/21 08:05 | 01/26/21 16:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *74* | | *34 - 110* | *01/26/21 08:05* | *01/26/21 16:13* | *1* |
| *Nitrobenzene-d5 (Surr)* | *76* | | *36 - 120* | *01/26/21 08:05* | *01/26/21 16:13* | *1* |
| *Terphenyl-d14 (Surr)* | *108* | | *40 - 145* | *01/26/21 08:05* | *01/26/21 16:13* | *1* |

### Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.85** | **J** | 1.0 | 0.23 | ug/L | | 01/26/21 06:15 | 01/27/21 16:39 | 1 |
| **Barium** | **37** | | 2.5 | 0.73 | ug/L | | 01/26/21 06:15 | 01/27/21 16:39 | 1 |
| Cadmium | <0.17 | | 0.50 | 0.17 | ug/L | | 01/26/21 06:15 | 01/27/21 16:39 | 1 |
| **Chromium** | **11** | | 5.0 | 1.1 | ug/L | | 01/26/21 06:15 | 01/27/21 16:39 | 1 |

# Client Sample Results

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

## Client Sample ID: TRG TW-2

**Date Collected: 01/22/21 14:30**
**Date Received: 01/23/21 10:25**

## Lab Sample ID: 500-194096-1

**Matrix: Water**

### Method: 6020A - Metals (ICP/MS) - Dissolved (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lead | <0.19 | | 0.50 | 0.19 | ug/L | | 01/26/21 06:15 | 01/27/21 16:39 | 1 |
| Selenium | <0.98 | | 2.5 | 0.98 | ug/L | | 01/26/21 06:15 | 01/27/21 16:39 | 1 |
| Silver | <0.12 | | 0.50 | 0.12 | ug/L | | 01/26/21 06:15 | 01/27/21 16:39 | 1 |

### Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.098 | | 0.20 | 0.098 | ug/L | | 01/26/21 13:15 | 01/27/21 09:52 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| pH | 9.9 | HF | 0.2 | 0.2 | SU | | | 01/28/21 14:50 | 1 |

### General Chemistry - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | 12 | | 0.30 | 0.23 | ug/L | | | 01/29/21 08:45 | 1 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

**Client Sample ID: TRG TW-3**
**Date Collected: 01/22/21 15:00**
**Date Received: 01/23/21 10:25**

**Lab Sample ID: 500-194096-2**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.15 | | 0.50 | 0.15 | ug/L | | | 01/27/21 15:12 | 1 |
| Bromobenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 15:12 | 1 |
| Bromochloromethane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/27/21 15:12 | 1 |
| Bromodichloromethane | <0.37 | | 1.0 | 0.37 | ug/L | | | 01/27/21 15:12 | 1 |
| Bromoform | <0.48 | | 1.0 | 0.48 | ug/L | | | 01/27/21 15:12 | 1 |
| Bromomethane | <0.80 | | 3.0 | 0.80 | ug/L | | | 01/27/21 15:12 | 1 |
| Carbon tetrachloride | <0.38 | | 1.0 | 0.38 | ug/L | | | 01/27/21 15:12 | 1 |
| Chlorobenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 15:12 | 1 |
| Chloroethane | <0.51 | | 1.0 | 0.51 | ug/L | | | 01/27/21 15:12 | 1 |
| Chloroform | <0.37 | | 2.0 | 0.37 | ug/L | | | 01/27/21 15:12 | 1 |
| Chloromethane | <0.32 | | 1.0 | 0.32 | ug/L | | | 01/27/21 15:12 | 1 |
| 2-Chlorotoluene | <0.31 | | 1.0 | 0.31 | ug/L | | | 01/27/21 15:12 | 1 |
| 4-Chlorotoluene | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/27/21 15:12 | 1 |
| **cis-1,2-Dichloroethene** | **1.7** | | 1.0 | 0.41 | ug/L | | | 01/27/21 15:12 | 1 |
| cis-1,3-Dichloropropene | <0.42 | | 1.0 | 0.42 | ug/L | | | 01/27/21 15:12 | 1 |
| Dibromochloromethane | <0.49 | | 1.0 | 0.49 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,2-Dibromo-3-Chloropropane | <2.0 | | 5.0 | 2.0 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,2-Dibromoethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 15:12 | 1 |
| Dibromomethane | <0.27 | | 1.0 | 0.27 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,2-Dichlorobenzene | <0.33 | | 1.0 | 0.33 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,3-Dichlorobenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,4-Dichlorobenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 15:12 | 1 |
| Dichlorodifluoromethane | <0.67 | | 3.0 | 0.67 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,1-Dichloroethane | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,2-Dichloroethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,1-Dichloroethene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,2-Dichloropropane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,3-Dichloropropane | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 15:12 | 1 |
| 2,2-Dichloropropane | <0.44 | | 1.0 | 0.44 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,1-Dichloropropene | <0.30 | | 1.0 | 0.30 | ug/L | | | 01/27/21 15:12 | 1 |
| Ethylbenzene | <0.18 | | 0.50 | 0.18 | ug/L | | | 01/27/21 15:12 | 1 |
| Hexachlorobutadiene | <0.45 | | 1.0 | 0.45 | ug/L | | | 01/27/21 15:12 | 1 |
| Isopropylbenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 15:12 | 1 |
| Isopropyl ether | <0.28 | | 1.0 | 0.28 | ug/L | | | 01/27/21 15:12 | 1 |
| Methylene Chloride | <1.6 | | 5.0 | 1.6 | ug/L | | | 01/27/21 15:12 | 1 |
| Methyl tert-butyl ether | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 15:12 | 1 |
| Naphthalene | <0.34 | | 1.0 | 0.34 | ug/L | | | 01/27/21 15:12 | 1 |
| n-Butylbenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 15:12 | 1 |
| N-Propylbenzene | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/27/21 15:12 | 1 |
| p-Isopropyltoluene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 15:12 | 1 |
| sec-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/27/21 15:12 | 1 |
| Styrene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 15:12 | 1 |
| tert-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.46 | | 1.0 | 0.46 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/27/21 15:12 | 1 |
| Tetrachloroethene | <0.37 | | 1.0 | 0.37 | ug/L | | | 01/27/21 15:12 | 1 |
| Toluene | <0.15 | | 0.50 | 0.15 | ug/L | | | 01/27/21 15:12 | 1 |
| trans-1,2-Dichloroethene | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/27/21 15:12 | 1 |
| trans-1,3-Dichloropropene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 15:12 | 1 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

## Client Sample ID: TRG TW-3

**Date Collected: 01/22/21 15:00**
**Date Received: 01/23/21 10:25**

## Lab Sample ID: 500-194096-2

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | <0.46 | | 1.0 | 0.46 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,2,4-Trichlorobenzene | <0.34 | | 1.0 | 0.34 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,1,1-Trichloroethane | <0.38 | | 1.0 | 0.38 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,1,2-Trichloroethane | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/27/21 15:12 | 1 |
| Trichloroethene | <0.16 | | 0.50 | 0.16 | ug/L | | | 01/27/21 15:12 | 1 |
| Trichlorofluoromethane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,2,3-Trichloropropane | <0.41 | | 2.0 | 0.41 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,2,4-Trimethylbenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 15:12 | 1 |
| 1,3,5-Trimethylbenzene | <0.25 | | 1.0 | 0.25 | ug/L | | | 01/27/21 15:12 | 1 |
| **Vinyl chloride** | **2.0** | | 1.0 | 0.20 | ug/L | | | 01/27/21 15:12 | 1 |
| Xylenes, Total | <0.22 | | 1.0 | 0.22 | ug/L | | | 01/27/21 15:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *90* | | *72 - 124* | | *01/27/21 15:12* | *1* |
| *Dibromofluoromethane (Surr)* | *89* | | *75 - 120* | | *01/27/21 15:12* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *75 - 126* | | *01/27/21 15:12* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *75 - 120* | | *01/27/21 15:12* | *1* |

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | <0.30 | *1 | 2.0 | 0.30 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| 2-Methylnaphthalene | <0.065 | *1 | 2.0 | 0.065 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Acenaphthene | <0.31 | *1 | 1.0 | 0.31 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Acenaphthylene | <0.27 | *1 | 1.0 | 0.27 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Anthracene | <0.33 | | 1.0 | 0.33 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Benzo[a]anthracene | <0.057 | | 0.20 | 0.057 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Benzo[a]pyrene | <0.099 | | 0.20 | 0.099 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Benzo[b]fluoranthene | <0.081 | | 0.20 | 0.081 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Benzo[g,h,i]perylene | <0.37 | | 1.0 | 0.37 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Benzo[k]fluoranthene | <0.064 | | 0.20 | 0.064 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Chrysene | <0.068 | | 0.20 | 0.068 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Dibenz(a,h)anthracene | <0.051 | | 0.30 | 0.051 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Fluoranthene | <0.45 | | 1.0 | 0.45 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Fluorene | <0.24 | | 1.0 | 0.24 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.075 | | 0.20 | 0.075 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Naphthalene | <0.31 | *1 | 1.0 | 0.31 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Phenanthrene | <0.30 | | 1.0 | 0.30 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |
| Pyrene | <0.43 | | 1.0 | 0.43 | ug/L | | 01/26/21 08:05 | 01/26/21 15:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *77* | | *34 - 110* | *01/26/21 08:05* | *01/26/21 15:45* | *1* |
| *Nitrobenzene-d5 (Surr)* | *79* | | *36 - 120* | *01/26/21 08:05* | *01/26/21 15:45* | *1* |
| *Terphenyl-d14 (Surr)* | *99* | | *40 - 145* | *01/26/21 08:05* | *01/26/21 15:45* | *1* |

### Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **1.0** | | 1.0 | 0.23 | ug/L | | 01/26/21 06:15 | 01/27/21 16:42 | 1 |
| **Barium** | **63** | | 2.5 | 0.73 | ug/L | | 01/26/21 06:15 | 01/27/21 16:42 | 1 |
| Cadmium | <0.17 | | 0.50 | 0.17 | ug/L | | 01/26/21 06:15 | 01/27/21 16:42 | 1 |
| **Chromium** | **280** | | 5.0 | 1.1 | ug/L | | 01/26/21 06:15 | 01/27/21 16:42 | 1 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

## Client Sample ID: TRG TW-3

**Date Collected: 01/22/21 15:00**
**Date Received: 01/23/21 10:25**

## Lab Sample ID: 500-194096-2

**Matrix: Water**

### Method: 6020A - Metals (ICP/MS) - Dissolved (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **0.71** | | 0.50 | 0.19 | ug/L | | 01/26/21 06:15 | 01/27/21 16:42 | 1 |
| Selenium | <0.98 | | 2.5 | 0.98 | ug/L | | 01/26/21 06:15 | 01/27/21 16:42 | 1 |
| Silver | <0.12 | | 0.50 | 0.12 | ug/L | | 01/26/21 06:15 | 01/27/21 16:42 | 1 |

### Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.098 | | 0.20 | 0.098 | ug/L | | 01/26/21 13:15 | 01/27/21 09:55 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **pH** | **8.0** | **HF** | 0.2 | 0.2 | SU | | | 01/28/21 14:55 | 1 |

### General Chemistry - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chromium, hexavalent** | **390** | **F1** | 3.0 | 2.3 | ug/L | | | 01/29/21 11:39 | 10 |

# Definitions/Glossary

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| *1 | LCS/LCSD RPD exceeds control limits. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| F1 | MS and/or MSD recovery exceeds control limits. |
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## GC/MS VOA

### Analysis Batch: 582572

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-194096-1 | TRG TW-2 | Total/NA | Water | 8260B | |
| 500-194096-2 | TRG TW-3 | Total/NA | Water | 8260B | |
| MB 500-582572/6 | Method Blank | Total/NA | Water | 8260B | |
| LCS 500-582572/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| 500-194096-1 MS | TRG TW-2 | Total/NA | Water | 8260B | |
| 500-194096-1 MSD | TRG TW-2 | Total/NA | Water | 8260B | |

## GC/MS Semi VOA

### Prep Batch: 582450

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-194096-1 | TRG TW-2 | Total/NA | Water | 3510C | |
| 500-194096-2 | TRG TW-3 | Total/NA | Water | 3510C | |
| MB 500-582450/1-A | Method Blank | Total/NA | Water | 3510C | |
| LCS 500-582450/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 500-582450/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |

### Analysis Batch: 582469

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-194096-1 | TRG TW-2 | Total/NA | Water | 8270D | 582450 |
| 500-194096-2 | TRG TW-3 | Total/NA | Water | 8270D | 582450 |
| MB 500-582450/1-A | Method Blank | Total/NA | Water | 8270D | 582450 |
| LCS 500-582450/2-A | Lab Control Sample | Total/NA | Water | 8270D | 582450 |
| LCSD 500-582450/3-A | Lab Control Sample Dup | Total/NA | Water | 8270D | 582450 |

## Metals

### Filtration Batch: 582349

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-194096-1 | TRG TW-2 | Dissolved | Water | FILTRATION | |
| 500-194096-2 | TRG TW-3 | Dissolved | Water | FILTRATION | |
| MB 500-582349/1-B | Method Blank | Dissolved | Water | FILTRATION | |
| MB 500-582349/1-C | Method Blank | Dissolved | Water | FILTRATION | |

### Prep Batch: 582412

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-194096-1 | TRG TW-2 | Dissolved | Water | 3005A | 582349 |
| 500-194096-2 | TRG TW-3 | Dissolved | Water | 3005A | 582349 |
| MB 500-582349/1-B | Method Blank | Dissolved | Water | 3005A | 582349 |
| LCS 500-582412/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

### Prep Batch: 582494

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-194096-1 | TRG TW-2 | Dissolved | Water | 7470A | 582349 |
| 500-194096-2 | TRG TW-3 | Dissolved | Water | 7470A | 582349 |
| MB 500-582349/1-C | Method Blank | Dissolved | Water | 7470A | 582349 |
| MB 500-582494/12-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 500-582494/15-A | Lab Control Sample | Total/NA | Water | 7470A | |

### Analysis Batch: 582627

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-194096-1 | TRG TW-2 | Dissolved | Water | 7470A | 582494 |

## Metals (Continued)

### Analysis Batch: 582627 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-194096-2 | TRG TW-3 | Dissolved | Water | 7470A | 582494 |
| MB 500-582349/1-C | Method Blank | Dissolved | Water | 7470A | 582494 |
| MB 500-582494/12-A | Method Blank | Total/NA | Water | 7470A | 582494 |
| LCS 500-582494/15-A | Lab Control Sample | Total/NA | Water | 7470A | 582494 |

### Analysis Batch: 582826

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-194096-1 | TRG TW-2 | Dissolved | Water | 6020A | 582412 |
| 500-194096-2 | TRG TW-3 | Dissolved | Water | 6020A | 582412 |
| MB 500-582349/1-B | Method Blank | Dissolved | Water | 6020A | 582412 |
| LCS 500-582412/2-A | Lab Control Sample | Total Recoverable | Water | 6020A | 582412 |

## General Chemistry

### Analysis Batch: 582815

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-194096-1 | TRG TW-2 | Total/NA | Water | SM 4500 H+ B | |
| 500-194096-2 | TRG TW-3 | Total/NA | Water | SM 4500 H+ B | |
| LCS 500-582815/5 | Lab Control Sample | Total/NA | Water | SM 4500 H+ B | |
| LCSD 500-582815/6 | Lab Control Sample Dup | Total/NA | Water | SM 4500 H+ B | |
| 500-194096-1 DU | TRG TW-2 | Total/NA | Water | SM 4500 H+ B | |
| 500-194096-2 DU | TRG TW-3 | Total/NA | Water | SM 4500 H+ B | |

### Analysis Batch: 583010

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-194096-1 | TRG TW-2 | Dissolved | Water | 218.6 | 583050 |
| 500-194096-2 | TRG TW-3 | Dissolved | Water | 218.6 | 583050 |
| MB 500-583010/3 | Method Blank | Total/NA | Water | 218.6 | |
| LCS 500-583010/4 | Lab Control Sample | Total/NA | Water | 218.6 | |

### Filtration Batch: 583050

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-194096-1 | TRG TW-2 | Dissolved | Water | Filtration | |
| 500-194096-2 | TRG TW-3 | Dissolved | Water | Filtration | |

# Surrogate Summary

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | BFB | DBFM | DCA | TOL |
| Lab Sample ID | Client Sample ID | (72-124) | (75-120) | (75-126) | (75-120) |
| 500-194096-1 | TRG TW-2 | 90 | 87 | 100 | 92 |
| 500-194096-1 MS | TRG TW-2 | 96 | 92 | 103 | 95 |
| 500-194096-1 MSD | TRG TW-2 | 96 | 93 | 101 | 94 |
| 500-194096-2 | TRG TW-3 | 90 | 89 | 102 | 92 |
| LCS 500-582572/4 | Lab Control Sample | 96 | 89 | 97 | 96 |
| MB 500-582572/6 | Method Blank | 92 | 89 | 100 | 92 |

**Surrogate Legend**

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

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | |
|---|---|---|---|---|
| | | FBP | NBZ | TPHL |
| Lab Sample ID | Client Sample ID | (34-110) | (36-120) | (40-145) |
| 500-194096-1 | TRG TW-2 | 74 | 76 | 108 |
| 500-194096-2 | TRG TW-3 | 77 | 79 | 99 |
| LCS 500-582450/2-A | Lab Control Sample | 74 | 74 | 98 |
| LCSD 500-582450/3-A | Lab Control Sample Dup | 82 | 78 | 103 |
| MB 500-582450/1-A | Method Blank | 84 | 86 | 116 |

**Surrogate Legend**

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-582572/6**
**Matrix: Water**
**Analysis Batch: 582572**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.15 | | 0.50 | 0.15 | ug/L | | | 01/27/21 11:07 | 1 |
| Bromobenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 11:07 | 1 |
| Bromochloromethane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/27/21 11:07 | 1 |
| Bromodichloromethane | <0.37 | | 1.0 | 0.37 | ug/L | | | 01/27/21 11:07 | 1 |
| Bromoform | <0.48 | | 1.0 | 0.48 | ug/L | | | 01/27/21 11:07 | 1 |
| Bromomethane | <0.80 | | 3.0 | 0.80 | ug/L | | | 01/27/21 11:07 | 1 |
| Carbon tetrachloride | <0.38 | | 1.0 | 0.38 | ug/L | | | 01/27/21 11:07 | 1 |
| Chlorobenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 11:07 | 1 |
| Chloroethane | <0.51 | | 1.0 | 0.51 | ug/L | | | 01/27/21 11:07 | 1 |
| Chloroform | <0.37 | | 2.0 | 0.37 | ug/L | | | 01/27/21 11:07 | 1 |
| Chloromethane | <0.32 | | 1.0 | 0.32 | ug/L | | | 01/27/21 11:07 | 1 |
| 2-Chlorotoluene | <0.31 | | 1.0 | 0.31 | ug/L | | | 01/27/21 11:07 | 1 |
| 4-Chlorotoluene | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/27/21 11:07 | 1 |
| cis-1,2-Dichloroethene | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/27/21 11:07 | 1 |
| cis-1,3-Dichloropropene | <0.42 | | 1.0 | 0.42 | ug/L | | | 01/27/21 11:07 | 1 |
| Dibromochloromethane | <0.49 | | 1.0 | 0.49 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,2-Dibromo-3-Chloropropane | <2.0 | | 5.0 | 2.0 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,2-Dibromoethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 11:07 | 1 |
| Dibromomethane | <0.27 | | 1.0 | 0.27 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,2-Dichlorobenzene | <0.33 | | 1.0 | 0.33 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,3-Dichlorobenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,4-Dichlorobenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 11:07 | 1 |
| Dichlorodifluoromethane | <0.67 | | 3.0 | 0.67 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,1-Dichloroethane | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,2-Dichloroethane | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,1-Dichloroethene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,2-Dichloropropane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,3-Dichloropropane | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 11:07 | 1 |
| 2,2-Dichloropropane | <0.44 | | 1.0 | 0.44 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,1-Dichloropropene | <0.30 | | 1.0 | 0.30 | ug/L | | | 01/27/21 11:07 | 1 |
| Ethylbenzene | <0.18 | | 0.50 | 0.18 | ug/L | | | 01/27/21 11:07 | 1 |
| Hexachlorobutadiene | <0.45 | | 1.0 | 0.45 | ug/L | | | 01/27/21 11:07 | 1 |
| Isopropylbenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 11:07 | 1 |
| Isopropyl ether | <0.28 | | 1.0 | 0.28 | ug/L | | | 01/27/21 11:07 | 1 |
| Methylene Chloride | <1.6 | | 5.0 | 1.6 | ug/L | | | 01/27/21 11:07 | 1 |
| Methyl tert-butyl ether | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 11:07 | 1 |
| Naphthalene | <0.34 | | 1.0 | 0.34 | ug/L | | | 01/27/21 11:07 | 1 |
| n-Butylbenzene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 11:07 | 1 |
| N-Propylbenzene | <0.41 | | 1.0 | 0.41 | ug/L | | | 01/27/21 11:07 | 1 |
| p-Isopropyltoluene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 11:07 | 1 |
| sec-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/27/21 11:07 | 1 |
| Styrene | <0.39 | | 1.0 | 0.39 | ug/L | | | 01/27/21 11:07 | 1 |
| tert-Butylbenzene | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.46 | | 1.0 | 0.46 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 1.0 | 0.40 | ug/L | | | 01/27/21 11:07 | 1 |
| Tetrachloroethene | <0.37 | | 1.0 | 0.37 | ug/L | | | 01/27/21 11:07 | 1 |
| Toluene | <0.15 | | 0.50 | 0.15 | ug/L | | | 01/27/21 11:07 | 1 |
| trans-1,2-Dichloroethene | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/27/21 11:07 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-582572/6**
**Matrix: Water**
**Analysis Batch: 582572**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,2,3-Trichlorobenzene | <0.46 | | 1.0 | 0.46 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,2,4-Trichlorobenzene | <0.34 | | 1.0 | 0.34 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,1,1-Trichloroethane | <0.38 | | 1.0 | 0.38 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,1,2-Trichloroethane | <0.35 | | 1.0 | 0.35 | ug/L | | | 01/27/21 11:07 | 1 |
| Trichloroethene | <0.16 | | 0.50 | 0.16 | ug/L | | | 01/27/21 11:07 | 1 |
| Trichlorofluoromethane | <0.43 | | 1.0 | 0.43 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,2,3-Trichloropropane | <0.41 | | 2.0 | 0.41 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,2,4-Trimethylbenzene | <0.36 | | 1.0 | 0.36 | ug/L | | | 01/27/21 11:07 | 1 |
| 1,3,5-Trimethylbenzene | <0.25 | | 1.0 | 0.25 | ug/L | | | 01/27/21 11:07 | 1 |
| Vinyl chloride | <0.20 | | 1.0 | 0.20 | ug/L | | | 01/27/21 11:07 | 1 |
| Xylenes, Total | <0.22 | | 1.0 | 0.22 | ug/L | | | 01/27/21 11:07 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *92* | | *72 - 124* | | *01/27/21 11:07* | *1* |
| *Dibromofluoromethane (Surr)* | *89* | | *75 - 120* | | *01/27/21 11:07* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *75 - 126* | | *01/27/21 11:07* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *75 - 120* | | *01/27/21 11:07* | *1* |

**Lab Sample ID: LCS 500-582572/4**
**Matrix: Water**
**Analysis Batch: 582572**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 50.0 | 50.3 | | ug/L | | 101 | 70 - 120 |
| Bromobenzene | 50.0 | 43.6 | | ug/L | | 87 | 70 - 122 |
| Bromochloromethane | 50.0 | 44.7 | | ug/L | | 89 | 65 - 122 |
| Bromodichloromethane | 50.0 | 42.4 | | ug/L | | 85 | 69 - 120 |
| Bromoform | 50.0 | 32.2 | | ug/L | | 64 | 56 - 132 |
| Bromomethane | 50.0 | 53.6 | | ug/L | | 107 | 40 - 152 |
| Carbon tetrachloride | 50.0 | 46.3 | | ug/L | | 93 | 59 - 133 |
| Chlorobenzene | 50.0 | 47.6 | | ug/L | | 95 | 70 - 120 |
| Chloroethane | 50.0 | 62.8 | | ug/L | | 126 | 48 - 136 |
| Chloroform | 50.0 | 45.8 | | ug/L | | 92 | 70 - 120 |
| Chloromethane | 50.0 | 59.6 | | ug/L | | 119 | 56 - 152 |
| 2-Chlorotoluene | 50.0 | 49.0 | | ug/L | | 98 | 70 - 125 |
| 4-Chlorotoluene | 50.0 | 47.8 | | ug/L | | 96 | 68 - 124 |
| cis-1,2-Dichloroethene | 50.0 | 45.8 | | ug/L | | 92 | 70 - 125 |
| cis-1,3-Dichloropropene | 50.0 | 41.6 | | ug/L | | 83 | 64 - 127 |
| Dibromochloromethane | 50.0 | 35.6 | | ug/L | | 71 | 68 - 125 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 30.6 | | ug/L | | 61 | 56 - 123 |
| 1,2-Dibromoethane | 50.0 | 40.1 | | ug/L | | 80 | 70 - 125 |
| Dibromomethane | 50.0 | 43.4 | | ug/L | | 87 | 70 - 120 |
| 1,2-Dichlorobenzene | 50.0 | 43.6 | | ug/L | | 87 | 70 - 125 |
| 1,3-Dichlorobenzene | 50.0 | 46.4 | | ug/L | | 93 | 70 - 125 |
| 1,4-Dichlorobenzene | 50.0 | 45.1 | | ug/L | | 90 | 70 - 120 |
| Dichlorodifluoromethane | 50.0 | 54.3 | | ug/L | | 109 | 40 - 159 |
| 1,1-Dichloroethane | 50.0 | 52.2 | | ug/L | | 104 | 70 - 125 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-582572/4**
**Matrix: Water**
**Analysis Batch: 582572**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 50.0 | 49.8 | | ug/L | | 100 | 68 - 127 |
| 1,1-Dichloroethene | 50.0 | 46.1 | | ug/L | | 92 | 67 - 122 |
| 1,2-Dichloropropane | 50.0 | 53.5 | | ug/L | | 107 | 67 - 130 |
| 1,3-Dichloropropane | 50.0 | 44.3 | | ug/L | | 89 | 62 - 136 |
| 2,2-Dichloropropane | 50.0 | 54.6 | | ug/L | | 109 | 58 - 139 |
| 1,1-Dichloropropene | 50.0 | 51.4 | | ug/L | | 103 | 70 - 121 |
| Ethylbenzene | 50.0 | 50.8 | | ug/L | | 102 | 70 - 123 |
| Hexachlorobutadiene | 50.0 | 55.3 | | ug/L | | 111 | 51 - 150 |
| Isopropylbenzene | 50.0 | 51.3 | | ug/L | | 103 | 70 - 126 |
| Methylene Chloride | 50.0 | 43.1 | | ug/L | | 86 | 69 - 125 |
| Methyl tert-butyl ether | 50.0 | 47.4 | | ug/L | | 95 | 55 - 123 |
| Naphthalene | 50.0 | 38.6 | | ug/L | | 77 | 53 - 144 |
| n-Butylbenzene | 50.0 | 51.2 | | ug/L | | 102 | 68 - 125 |
| N-Propylbenzene | 50.0 | 50.9 | | ug/L | | 102 | 69 - 127 |
| p-Isopropyltoluene | 50.0 | 51.5 | | ug/L | | 103 | 70 - 125 |
| sec-Butylbenzene | 50.0 | 51.3 | | ug/L | | 103 | 70 - 123 |
| Styrene | 50.0 | 46.6 | | ug/L | | 93 | 70 - 120 |
| tert-Butylbenzene | 50.0 | 51.1 | | ug/L | | 102 | 70 - 121 |
| 1,1,1,2-Tetrachloroethane | 50.0 | 43.8 | | ug/L | | 88 | 70 - 125 |
| 1,1,2,2-Tetrachloroethane | 50.0 | 37.7 | | ug/L | | 75 | 62 - 140 |
| Tetrachloroethene | 50.0 | 50.0 | | ug/L | | 100 | 70 - 128 |
| Toluene | 50.0 | 48.6 | | ug/L | | 97 | 70 - 125 |
| trans-1,2-Dichloroethene | 50.0 | 46.7 | | ug/L | | 93 | 70 - 125 |
| trans-1,3-Dichloropropene | 50.0 | 38.6 | | ug/L | | 77 | 62 - 128 |
| 1,2,3-Trichlorobenzene | 50.0 | 43.0 | | ug/L | | 86 | 51 - 145 |
| 1,2,4-Trichlorobenzene | 50.0 | 43.6 | | ug/L | | 87 | 57 - 137 |
| 1,1,1-Trichloroethane | 50.0 | 48.3 | | ug/L | | 97 | 70 - 125 |
| 1,1,2-Trichloroethane | 50.0 | 40.7 | | ug/L | | 81 | 71 - 130 |
| Trichloroethene | 50.0 | 48.3 | | ug/L | | 97 | 70 - 125 |
| Trichlorofluoromethane | 50.0 | 48.4 | | ug/L | | 97 | 55 - 128 |
| 1,2,3-Trichloropropane | 50.0 | 38.1 | | ug/L | | 76 | 50 - 133 |
| 1,2,4-Trimethylbenzene | 50.0 | 49.0 | | ug/L | | 98 | 70 - 123 |
| 1,3,5-Trimethylbenzene | 50.0 | 49.9 | | ug/L | | 100 | 70 - 123 |
| Vinyl chloride | 50.0 | 51.4 | | ug/L | | 103 | 64 - 126 |
| Xylenes, Total | 100 | 102 | | ug/L | | 102 | 70 - 125 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *89* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *96* | | *75 - 120* |

**Lab Sample ID: 500-194096-1 MS**
**Matrix: Water**
**Analysis Batch: 582572**

**Client Sample ID: TRG TW-2**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.15 | | 50.0 | 51.8 | | ug/L | | 104 | 70 - 120 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-194096-1 MS**
**Matrix: Water**
**Analysis Batch: 582572**

**Client Sample ID: TRG TW-2**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | <0.36 | | 50.0 | 46.4 | | ug/L | | 93 | 70 - 122 |
| Bromochloromethane | <0.43 | | 50.0 | 47.3 | | ug/L | | 95 | 65 - 122 |
| Bromodichloromethane | <0.37 | | 50.0 | 42.9 | | ug/L | | 86 | 69 - 120 |
| Bromoform | <0.48 | | 50.0 | 32.6 | | ug/L | | 65 | 56 - 132 |
| Bromomethane | <0.80 | | 50.0 | 54.8 | | ug/L | | 110 | 40 - 152 |
| Carbon tetrachloride | <0.38 | | 50.0 | 46.0 | | ug/L | | 92 | 59 - 133 |
| Chlorobenzene | <0.39 | | 50.0 | 48.5 | | ug/L | | 97 | 70 - 120 |
| Chloroethane | <0.51 | | 50.0 | 63.6 | | ug/L | | 127 | 48 - 136 |
| Chloroform | <0.37 | | 50.0 | 47.7 | | ug/L | | 95 | 70 - 120 |
| Chloromethane | <0.32 | | 50.0 | 61.6 | | ug/L | | 123 | 56 - 152 |
| 2-Chlorotoluene | <0.31 | | 50.0 | 50.3 | | ug/L | | 101 | 70 - 125 |
| 4-Chlorotoluene | <0.35 | | 50.0 | 49.6 | | ug/L | | 99 | 68 - 124 |
| cis-1,2-Dichloroethene | 1.4 | | 50.0 | 47.3 | | ug/L | | 92 | 70 - 125 |
| cis-1,3-Dichloropropene | <0.42 | | 50.0 | 41.4 | | ug/L | | 83 | 64 - 127 |
| Dibromochloromethane | <0.49 | | 50.0 | 35.9 | | ug/L | | 72 | 68 - 125 |
| 1,2-Dibromo-3-Chloropropane | <2.0 | | 50.0 | 32.2 | | ug/L | | 64 | 56 - 123 |
| 1,2-Dibromoethane | <0.39 | | 50.0 | 42.0 | | ug/L | | 84 | 70 - 125 |
| Dibromomethane | <0.27 | | 50.0 | 46.2 | | ug/L | | 92 | 70 - 120 |
| 1,2-Dichlorobenzene | <0.33 | | 50.0 | 46.2 | | ug/L | | 92 | 70 - 125 |
| 1,3-Dichlorobenzene | <0.40 | | 50.0 | 47.9 | | ug/L | | 96 | 70 - 125 |
| 1,4-Dichlorobenzene | <0.36 | | 50.0 | 47.4 | | ug/L | | 95 | 70 - 120 |
| Dichlorodifluoromethane | <0.67 | | 50.0 | 54.8 | | ug/L | | 110 | 40 - 159 |
| 1,1-Dichloroethane | <0.41 | | 50.0 | 53.7 | | ug/L | | 107 | 70 - 125 |
| 1,2-Dichloroethane | <0.39 | | 50.0 | 53.1 | | ug/L | | 106 | 68 - 127 |
| 1,1-Dichloroethene | <0.39 | | 50.0 | 47.0 | | ug/L | | 94 | 67 - 122 |
| 1,2-Dichloropropane | <0.43 | | 50.0 | 56.2 | | ug/L | | 112 | 67 - 130 |
| 1,3-Dichloropropane | <0.36 | | 50.0 | 45.9 | | ug/L | | 92 | 62 - 136 |
| 2,2-Dichloropropane | <0.44 | | 50.0 | 53.7 | | ug/L | | 107 | 58 - 139 |
| 1,1-Dichloropropene | <0.30 | | 50.0 | 51.3 | | ug/L | | 103 | 70 - 121 |
| Ethylbenzene | <0.18 | | 50.0 | 50.7 | | ug/L | | 101 | 70 - 123 |
| Hexachlorobutadiene | <0.45 | | 50.0 | 56.2 | | ug/L | | 112 | 51 - 150 |
| Isopropylbenzene | <0.39 | | 50.0 | 53.0 | | ug/L | | 106 | 70 - 126 |
| Methylene Chloride | <1.6 | | 50.0 | 46.1 | | ug/L | | 92 | 69 - 125 |
| Methyl tert-butyl ether | <0.39 | | 50.0 | 50.2 | | ug/L | | 100 | 55 - 123 |
| Naphthalene | <0.34 | | 50.0 | 39.8 | | ug/L | | 80 | 53 - 144 |
| n-Butylbenzene | <0.39 | | 50.0 | 50.9 | | ug/L | | 102 | 68 - 125 |
| N-Propylbenzene | <0.41 | | 50.0 | 52.2 | | ug/L | | 104 | 69 - 127 |
| p-Isopropyltoluene | <0.36 | | 50.0 | 53.0 | | ug/L | | 106 | 70 - 125 |
| sec-Butylbenzene | <0.40 | | 50.0 | 53.0 | | ug/L | | 106 | 70 - 123 |
| Styrene | <0.39 | | 50.0 | 45.5 | | ug/L | | 91 | 70 - 120 |
| tert-Butylbenzene | <0.40 | | 50.0 | 52.2 | | ug/L | | 104 | 70 - 121 |
| 1,1,1,2-Tetrachloroethane | <0.46 | | 50.0 | 44.0 | | ug/L | | 88 | 70 - 125 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 50.0 | 41.1 | | ug/L | | 82 | 62 - 140 |
| Tetrachloroethene | <0.37 | | 50.0 | 49.0 | | ug/L | | 98 | 70 - 128 |
| Toluene | <0.15 | | 50.0 | 49.0 | | ug/L | | 98 | 70 - 125 |
| trans-1,2-Dichloroethene | <0.35 | | 50.0 | 48.7 | | ug/L | | 97 | 70 - 125 |
| trans-1,3-Dichloropropene | <0.36 | | 50.0 | 38.0 | | ug/L | | 76 | 62 - 128 |
| 1,2,3-Trichlorobenzene | <0.46 | | 50.0 | 43.0 | | ug/L | | 86 | 51 - 145 |
| 1,2,4-Trichlorobenzene | <0.34 | | 50.0 | 41.8 | | ug/L | | 84 | 57 - 137 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-194096-1 MS**
**Matrix: Water**
**Analysis Batch: 582572**

**Client Sample ID: TRG TW-2**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | <0.38 | | 50.0 | 49.1 | | ug/L | | 98 | 70 - 125 |
| 1,1,2-Trichloroethane | <0.35 | | 50.0 | 42.5 | | ug/L | | 85 | 71 - 130 |
| Trichloroethene | <0.16 | | 50.0 | 48.6 | | ug/L | | 97 | 70 - 125 |
| Trichlorofluoromethane | <0.43 | | 50.0 | 47.9 | | ug/L | | 96 | 55 - 128 |
| 1,2,3-Trichloropropane | <0.41 | | 50.0 | 42.1 | | ug/L | | 84 | 50 - 133 |
| 1,2,4-Trimethylbenzene | <0.36 | | 50.0 | 51.3 | | ug/L | | 103 | 70 - 123 |
| 1,3,5-Trimethylbenzene | <0.25 | | 50.0 | 51.4 | | ug/L | | 103 | 70 - 123 |
| Vinyl chloride | 1.3 | | 50.0 | 53.0 | | ug/L | | 103 | 64 - 126 |
| Xylenes, Total | <0.22 | | 100 | 102 | | ug/L | | 102 | 70 - 125 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *92* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *95* | | *75 - 120* |

**Lab Sample ID: 500-194096-1 MSD**
**Matrix: Water**
**Analysis Batch: 582572**

**Client Sample ID: TRG TW-2**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.15 | | 50.0 | 50.4 | | ug/L | | 101 | 70 - 120 | 3 | 20 |
| Bromobenzene | <0.36 | | 50.0 | 45.7 | | ug/L | | 91 | 70 - 122 | 1 | 20 |
| Bromochloromethane | <0.43 | | 50.0 | 46.6 | | ug/L | | 93 | 65 - 122 | 1 | 20 |
| Bromodichloromethane | <0.37 | | 50.0 | 42.7 | | ug/L | | 85 | 69 - 120 | 0 | 20 |
| Bromoform | <0.48 | | 50.0 | 32.3 | | ug/L | | 65 | 56 - 132 | 1 | 20 |
| Bromomethane | <0.80 | | 50.0 | 57.5 | | ug/L | | 115 | 40 - 152 | 5 | 20 |
| Carbon tetrachloride | <0.38 | | 50.0 | 46.8 | | ug/L | | 94 | 59 - 133 | 2 | 20 |
| Chlorobenzene | <0.39 | | 50.0 | 47.7 | | ug/L | | 95 | 70 - 120 | 2 | 20 |
| Chloroethane | <0.51 | | 50.0 | 65.7 | | ug/L | | 131 | 48 - 136 | 3 | 20 |
| Chloroform | <0.37 | | 50.0 | 47.2 | | ug/L | | 94 | 70 - 120 | 1 | 20 |
| Chloromethane | <0.32 | | 50.0 | 64.8 | | ug/L | | 130 | 56 - 152 | 5 | 20 |
| 2-Chlorotoluene | <0.31 | | 50.0 | 50.0 | | ug/L | | 100 | 70 - 125 | 1 | 20 |
| 4-Chlorotoluene | <0.35 | | 50.0 | 48.7 | | ug/L | | 97 | 68 - 124 | 2 | 20 |
| cis-1,2-Dichloroethene | 1.4 | | 50.0 | 47.1 | | ug/L | | 91 | 70 - 125 | 0 | 20 |
| cis-1,3-Dichloropropene | <0.42 | | 50.0 | 41.3 | | ug/L | | 83 | 64 - 127 | 0 | 20 |
| Dibromochloromethane | <0.49 | | 50.0 | 35.6 | | ug/L | | 71 | 68 - 125 | 1 | 20 |
| 1,2-Dibromo-3-Chloropropane | <2.0 | | 50.0 | 32.8 | | ug/L | | 66 | 56 - 123 | 2 | 20 |
| 1,2-Dibromoethane | <0.39 | | 50.0 | 41.1 | | ug/L | | 82 | 70 - 125 | 2 | 20 |
| Dibromomethane | <0.27 | | 50.0 | 45.0 | | ug/L | | 90 | 70 - 120 | 3 | 20 |
| 1,2-Dichlorobenzene | <0.33 | | 50.0 | 45.5 | | ug/L | | 91 | 70 - 125 | 1 | 20 |
| 1,3-Dichlorobenzene | <0.40 | | 50.0 | 47.5 | | ug/L | | 95 | 70 - 125 | 1 | 20 |
| 1,4-Dichlorobenzene | <0.36 | | 50.0 | 46.3 | | ug/L | | 93 | 70 - 120 | 2 | 20 |
| Dichlorodifluoromethane | <0.67 | | 50.0 | 57.6 | | ug/L | | 115 | 40 - 159 | 5 | 20 |
| 1,1-Dichloroethane | <0.41 | | 50.0 | 53.3 | | ug/L | | 107 | 70 - 125 | 1 | 20 |
| 1,2-Dichloroethane | <0.39 | | 50.0 | 52.0 | | ug/L | | 104 | 68 - 127 | 2 | 20 |
| 1,1-Dichloroethene | <0.39 | | 50.0 | 46.6 | | ug/L | | 93 | 67 - 122 | 1 | 20 |
| 1,2-Dichloropropane | <0.43 | | 50.0 | 54.6 | | ug/L | | 109 | 67 - 130 | 3 | 20 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-194096-1 MSD**
**Matrix: Water**
**Analysis Batch: 582572**

**Client Sample ID: TRG TW-2**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichloropropane | <0.36 | | 50.0 | 45.1 | | ug/L | | 90 | 62 - 136 | 2 | 20 |
| 2,2-Dichloropropane | <0.44 | | 50.0 | 50.4 | | ug/L | | 101 | 58 - 139 | 6 | 20 |
| 1,1-Dichloropropene | <0.30 | | 50.0 | 49.7 | | ug/L | | 99 | 70 - 121 | 3 | 20 |
| Ethylbenzene | <0.18 | | 50.0 | 50.2 | | ug/L | | 100 | 70 - 123 | 1 | 20 |
| Hexachlorobutadiene | <0.45 | | 50.0 | 56.1 | | ug/L | | 112 | 51 - 150 | 0 | 20 |
| Isopropylbenzene | <0.39 | | 50.0 | 51.8 | | ug/L | | 104 | 70 - 126 | 2 | 20 |
| Methylene Chloride | <1.6 | | 50.0 | 45.1 | | ug/L | | 90 | 69 - 125 | 2 | 20 |
| Methyl tert-butyl ether | <0.39 | | 50.0 | 50.0 | | ug/L | | 100 | 55 - 123 | 1 | 20 |
| Naphthalene | <0.34 | | 50.0 | 40.7 | | ug/L | | 81 | 53 - 144 | 2 | 20 |
| n-Butylbenzene | <0.39 | | 50.0 | 50.2 | | ug/L | | 100 | 68 - 125 | 1 | 20 |
| N-Propylbenzene | <0.41 | | 50.0 | 51.4 | | ug/L | | 103 | 69 - 127 | 2 | 20 |
| p-Isopropyltoluene | <0.36 | | 50.0 | 51.9 | | ug/L | | 104 | 70 - 125 | 2 | 20 |
| sec-Butylbenzene | <0.40 | | 50.0 | 51.9 | | ug/L | | 104 | 70 - 123 | 2 | 20 |
| Styrene | <0.39 | | 50.0 | 45.8 | | ug/L | | 92 | 70 - 120 | 1 | 20 |
| tert-Butylbenzene | <0.40 | | 50.0 | 51.5 | | ug/L | | 103 | 70 - 121 | 1 | 20 |
| 1,1,1,2-Tetrachloroethane | <0.46 | | 50.0 | 44.2 | | ug/L | | 88 | 70 - 125 | 0 | 20 |
| 1,1,2,2-Tetrachloroethane | <0.40 | | 50.0 | 40.5 | | ug/L | | 81 | 62 - 140 | 2 | 20 |
| Tetrachloroethene | <0.37 | | 50.0 | 48.6 | | ug/L | | 97 | 70 - 128 | 1 | 20 |
| Toluene | <0.15 | | 50.0 | 48.1 | | ug/L | | 96 | 70 - 125 | 2 | 20 |
| trans-1,2-Dichloroethene | <0.35 | | 50.0 | 48.4 | | ug/L | | 97 | 70 - 125 | 1 | 20 |
| trans-1,3-Dichloropropene | <0.36 | | 50.0 | 37.6 | | ug/L | | 75 | 62 - 128 | 1 | 20 |
| 1,2,3-Trichlorobenzene | <0.46 | | 50.0 | 43.8 | | ug/L | | 88 | 51 - 145 | 2 | 20 |
| 1,2,4-Trichlorobenzene | <0.34 | | 50.0 | 42.0 | | ug/L | | 84 | 57 - 137 | 1 | 20 |
| 1,1,1-Trichloroethane | <0.38 | | 50.0 | 48.4 | | ug/L | | 97 | 70 - 125 | 1 | 20 |
| 1,1,2-Trichloroethane | <0.35 | | 50.0 | 42.2 | | ug/L | | 84 | 71 - 130 | 1 | 20 |
| Trichloroethene | <0.16 | | 50.0 | 47.8 | | ug/L | | 96 | 70 - 125 | 2 | 20 |
| Trichlorofluoromethane | <0.43 | | 50.0 | 49.6 | | ug/L | | 99 | 55 - 128 | 3 | 20 |
| 1,2,3-Trichloropropane | <0.41 | | 50.0 | 41.3 | | ug/L | | 83 | 50 - 133 | 2 | 20 |
| 1,2,4-Trimethylbenzene | <0.36 | | 50.0 | 50.8 | | ug/L | | 102 | 70 - 123 | 1 | 20 |
| 1,3,5-Trimethylbenzene | <0.25 | | 50.0 | 50.4 | | ug/L | | 101 | 70 - 123 | 2 | 20 |
| Vinyl chloride | 1.3 | | 50.0 | 53.7 | | ug/L | | 105 | 64 - 126 | 1 | 20 |
| Xylenes, Total | <0.22 | | 100 | 102 | | ug/L | | 102 | 70 - 125 | 0 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *72 - 124* |
| *Dibromofluoromethane (Surr)* | *93* | | *75 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *75 - 126* |
| *Toluene-d8 (Surr)* | *94* | | *75 - 120* |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-582450/1-A**
**Matrix: Water**
**Analysis Batch: 582469**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 582450**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | <0.24 | | 1.6 | 0.24 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| 2-Methylnaphthalene | <0.052 | | 1.6 | 0.052 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Acenaphthene | <0.25 | | 0.80 | 0.25 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-582450/1-A**
**Matrix: Water**
**Analysis Batch: 582469**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 582450**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthylene | <0.21 | | 0.80 | 0.21 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Anthracene | <0.27 | | 0.80 | 0.27 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Benzo[a]anthracene | <0.045 | | 0.16 | 0.045 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Benzo[a]pyrene | <0.079 | | 0.16 | 0.079 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Benzo[b]fluoranthene | <0.065 | | 0.16 | 0.065 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Benzo[g,h,i]perylene | <0.30 | | 0.80 | 0.30 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Benzo[k]fluoranthene | <0.051 | | 0.16 | 0.051 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Chrysene | <0.055 | | 0.16 | 0.055 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Dibenz(a,h)anthracene | <0.041 | | 0.24 | 0.041 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Fluoranthene | <0.36 | | 0.80 | 0.36 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Fluorene | <0.20 | | 0.80 | 0.20 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.060 | | 0.16 | 0.060 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Naphthalene | <0.25 | | 0.80 | 0.25 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Phenanthrene | <0.24 | | 0.80 | 0.24 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |
| Pyrene | <0.34 | | 0.80 | 0.34 | ug/L | | 01/26/21 08:05 | 01/26/21 13:53 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *84* | | *34 - 110* | *01/26/21 08:05* | *01/26/21 13:53* | *1* |
| *Nitrobenzene-d5 (Surr)* | *86* | | *36 - 120* | *01/26/21 08:05* | *01/26/21 13:53* | *1* |
| *Terphenyl-d14 (Surr)* | *116* | | *40 - 145* | *01/26/21 08:05* | *01/26/21 13:53* | *1* |

**Lab Sample ID: LCS 500-582450/2-A**
**Matrix: Water**
**Analysis Batch: 582469**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 582450**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | 32.0 | 13.3 | | ug/L | | 42 | 38 - 110 |
| 2-Methylnaphthalene | 32.0 | 13.4 | | ug/L | | 42 | 34 - 110 |
| Acenaphthene | 32.0 | 18.0 | | ug/L | | 56 | 46 - 110 |
| Acenaphthylene | 32.0 | 19.1 | | ug/L | | 60 | 47 - 113 |
| Anthracene | 32.0 | 25.7 | | ug/L | | 80 | 67 - 118 |
| Benzo[a]anthracene | 32.0 | 23.2 | | ug/L | | 72 | 70 - 126 |
| Benzo[a]pyrene | 32.0 | 30.4 | | ug/L | | 95 | 70 - 135 |
| Benzo[b]fluoranthene | 32.0 | 28.5 | | ug/L | | 89 | 69 - 136 |
| Benzo[g,h,i]perylene | 32.0 | 33.8 | | ug/L | | 106 | 70 - 135 |
| Benzo[k]fluoranthene | 32.0 | 29.5 | | ug/L | | 92 | 70 - 133 |
| Chrysene | 32.0 | 25.3 | | ug/L | | 79 | 68 - 129 |
| Dibenz(a,h)anthracene | 32.0 | 34.0 | | ug/L | | 106 | 70 - 134 |
| Fluoranthene | 32.0 | 25.1 | | ug/L | | 79 | 68 - 126 |
| Fluorene | 32.0 | 22.4 | | ug/L | | 70 | 53 - 120 |
| Indeno[1,2,3-cd]pyrene | 32.0 | 33.9 | | ug/L | | 106 | 65 - 133 |
| Naphthalene | 32.0 | 13.0 | | ug/L | | 41 | 36 - 110 |
| Phenanthrene | 32.0 | 25.4 | | ug/L | | 79 | 65 - 120 |
| Pyrene | 32.0 | 29.1 | | ug/L | | 91 | 70 - 126 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *74* | | *34 - 110* |
| *Nitrobenzene-d5 (Surr)* | *74* | | *36 - 120* |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-582450/2-A**
**Matrix: Water**
**Analysis Batch: 582469**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 582450**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *Terphenyl-d14 (Surr)* | *98* | | *40 - 145* |

**Lab Sample ID: LCSD 500-582450/3-A**
**Matrix: Water**
**Analysis Batch: 582469**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 582450**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | | | 32.0 | 19.8 | *1 | ug/L | | 62 | 38 - 110 | 39 | 20 |
| 2-Methylnaphthalene | | | 32.0 | 19.7 | *1 | ug/L | | 61 | 34 - 110 | 38 | 20 |
| Acenaphthene | | | 32.0 | 23.2 | *1 | ug/L | | 73 | 46 - 110 | 25 | 20 |
| Acenaphthylene | | | 32.0 | 24.4 | *1 | ug/L | | 76 | 47 - 113 | 25 | 20 |
| Anthracene | | | 32.0 | 28.9 | | ug/L | | 90 | 67 - 118 | 11 | 20 |
| Benzo[a]anthracene | | | 32.0 | 25.5 | | ug/L | | 80 | 70 - 126 | 10 | 20 |
| Benzo[a]pyrene | | | 32.0 | 33.4 | | ug/L | | 105 | 70 - 135 | 10 | 20 |
| Benzo[b]fluoranthene | | | 32.0 | 31.0 | | ug/L | | 97 | 69 - 136 | 8 | 20 |
| Benzo[g,h,i]perylene | | | 32.0 | 37.3 | | ug/L | | 116 | 70 - 135 | 10 | 20 |
| Benzo[k]fluoranthene | | | 32.0 | 33.1 | | ug/L | | 103 | 70 - 133 | 12 | 20 |
| Chrysene | | | 32.0 | 27.9 | | ug/L | | 87 | 68 - 129 | 10 | 20 |
| Dibenz(a,h)anthracene | | | 32.0 | 37.7 | | ug/L | | 118 | 70 - 134 | 10 | 20 |
| Fluoranthene | | | 32.0 | 27.6 | | ug/L | | 86 | 68 - 126 | 9 | 20 |
| Fluorene | | | 32.0 | 26.3 | | ug/L | | 82 | 53 - 120 | 16 | 20 |
| Indeno[1,2,3-cd]pyrene | | | 32.0 | 37.4 | | ug/L | | 117 | 65 - 133 | 10 | 20 |
| Naphthalene | | | 32.0 | 19.5 | *1 | ug/L | | 61 | 36 - 110 | 40 | 20 |
| Phenanthrene | | | 32.0 | 28.9 | | ug/L | | 90 | 65 - 120 | 13 | 20 |
| Pyrene | | | 32.0 | 32.0 | | ug/L | | 100 | 70 - 126 | 9 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| *2-Fluorobiphenyl (Surr)* | *82* | | *34 - 110* |
| *Nitrobenzene-d5 (Surr)* | *78* | | *36 - 120* |
| *Terphenyl-d14 (Surr)* | *103* | | *40 - 145* |

## Method: 6020A - Metals (ICP/MS)

**Lab Sample ID: LCS 500-582412/2-A**
**Matrix: Water**
**Analysis Batch: 582826**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 582412**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | | | 100 | 99.1 | | ug/L | | 99 | 80 - 120 | | |
| Barium | | | 500 | 526 | | ug/L | | 105 | 80 - 120 | | |
| Cadmium | | | 50.0 | 51.7 | | ug/L | | 103 | 80 - 120 | | |
| Chromium | | | 200 | 217 | | ug/L | | 108 | 80 - 120 | | |
| Lead | | | 100 | 108 | | ug/L | | 108 | 80 - 120 | | |
| Selenium | | | 100 | 98.5 | | ug/L | | 98 | 80 - 120 | | |
| Silver | | | 50.0 | 51.3 | | ug/L | | 103 | 80 - 120 | | |

## Method: 6020A - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 500-582349/1-B**
**Matrix: Water**
**Analysis Batch: 582826**

**Client Sample ID: Method Blank**
**Prep Type: Dissolved**
**Prep Batch: 582412**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.23 | | 1.0 | 0.23 | ug/L | | 01/26/21 06:15 | 01/27/21 16:35 | 1 |
| Barium | <0.73 | | 2.5 | 0.73 | ug/L | | 01/26/21 06:15 | 01/27/21 16:35 | 1 |
| Cadmium | <0.17 | | 0.50 | 0.17 | ug/L | | 01/26/21 06:15 | 01/27/21 16:35 | 1 |
| Chromium | <1.1 | | 5.0 | 1.1 | ug/L | | 01/26/21 06:15 | 01/27/21 16:35 | 1 |
| Lead | <0.19 | | 0.50 | 0.19 | ug/L | | 01/26/21 06:15 | 01/27/21 16:35 | 1 |
| Selenium | <0.98 | | 2.5 | 0.98 | ug/L | | 01/26/21 06:15 | 01/27/21 16:35 | 1 |
| Silver | <0.12 | | 0.50 | 0.12 | ug/L | | 01/26/21 06:15 | 01/27/21 16:35 | 1 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-582494/12-A**
**Matrix: Water**
**Analysis Batch: 582627**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 582494**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.098 | | 0.20 | 0.098 | ug/L | | 01/26/21 13:15 | 01/27/21 08:38 | 1 |

**Lab Sample ID: LCS 500-582494/15-A**
**Matrix: Water**
**Analysis Batch: 582627**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 582494**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 2.00 | 2.13 | | ug/L | | 107 | 80 - 120 |

**Lab Sample ID: MB 500-582349/1-C**
**Matrix: Water**
**Analysis Batch: 582627**

**Client Sample ID: Method Blank**
**Prep Type: Dissolved**
**Prep Batch: 582494**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.098 | | 0.20 | 0.098 | ug/L | | 01/26/21 13:15 | 01/27/21 09:50 | 1 |

## Method: 218.6 - Chromium, Hexavalent (Ion Chromatography)

**Lab Sample ID: MB 500-583010/3**
**Matrix: Water**
**Analysis Batch: 583010**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | <0.23 | | 0.30 | 0.23 | ug/L | | | 01/29/21 08:06 | 1 |

**Lab Sample ID: LCS 500-583010/4**
**Matrix: Water**
**Analysis Batch: 583010**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chromium, hexavalent | 25.0 | 23.1 | | ug/L | | 93 | 90 - 110 |

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

## Method: SM 4500 H+ B - pH

**Lab Sample ID: 500-194096-1 DU**
**Matrix: Water**
**Analysis Batch: 582815**

**Client Sample ID: TRG TW-2**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | 9.9 | HF | | 9.9 | | SU | | | | 0.1 | |

**Lab Sample ID: 500-194096-2 DU**
**Matrix: Water**
**Analysis Batch: 582815**

**Client Sample ID: TRG TW-3**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | 8.0 | HF | | 8.0 | | SU | | | | 0 | |

# Lab Chronicle

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

## Client Sample ID: TRG TW-2

**Lab Sample ID: 500-194096-1**

**Date Collected: 01/22/21 14:30**

**Matrix: Water**

**Date Received: 01/23/21 10:25**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 582572 | 01/27/21 14:45 | PMF | TAL CHI |
| Total/NA | Prep | 3510C | | | 582450 | 01/26/21 08:05 | CMC | TAL CHI |
| Total/NA | Analysis | 8270D | | 1 | 582469 | 01/26/21 16:13 | AJD | TAL CHI |
| Dissolved | Filtration | FILTRATION | | | 582349 | 01/25/21 13:11 | LMN | TAL CHI |
| Dissolved | Prep | 3005A | | | 582412 | 01/26/21 06:15 | LMN | TAL CHI |
| Dissolved | Analysis | 6020A | | 1 | 582826 | 01/27/21 16:39 | FXG | TAL CHI |
| Dissolved | Filtration | FILTRATION | | | 582349 | 01/25/21 13:11 | LMN | TAL CHI |
| Dissolved | Prep | 7470A | | | 582494 | 01/26/21 13:15 | MJG | TAL CHI |
| Dissolved | Analysis | 7470A | | 1 | 582627 | 01/27/21 09:52 | MJG | TAL CHI |
| Dissolved | Filtration | Filtration | | | 583050 | 01/23/21 12:34 | EAT | TAL CHI |
| Dissolved | Analysis | 218.6 | | 1 | 583010 | 01/29/21 08:45 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 582815 | | SMO | TAL CHI |
| | | | | | | (Start) 01/28/21 14:50 | | |
| | | | | | | (End) 01/28/21 14:52 | | |

## Client Sample ID: TRG TW-3

**Lab Sample ID: 500-194096-2**

**Date Collected: 01/22/21 15:00**

**Matrix: Water**

**Date Received: 01/23/21 10:25**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 582572 | 01/27/21 15:12 | PMF | TAL CHI |
| Total/NA | Prep | 3510C | | | 582450 | 01/26/21 08:05 | CMC | TAL CHI |
| Total/NA | Analysis | 8270D | | 1 | 582469 | 01/26/21 15:45 | AJD | TAL CHI |
| Dissolved | Filtration | FILTRATION | | | 582349 | 01/25/21 13:11 | LMN | TAL CHI |
| Dissolved | Prep | 3005A | | | 582412 | 01/26/21 06:15 | LMN | TAL CHI |
| Dissolved | Analysis | 6020A | | 1 | 582826 | 01/27/21 16:42 | FXG | TAL CHI |
| Dissolved | Filtration | FILTRATION | | | 582349 | 01/25/21 13:11 | LMN | TAL CHI |
| Dissolved | Prep | 7470A | | | 582494 | 01/26/21 13:15 | MJG | TAL CHI |
| Dissolved | Analysis | 7470A | | 1 | 582627 | 01/27/21 09:55 | MJG | TAL CHI |
| Dissolved | Filtration | Filtration | | | 583050 | 01/23/21 12:38 | EAT | TAL CHI |
| Dissolved | Analysis | 218.6 | | 10 | 583010 | 01/29/21 11:39 | EAT | TAL CHI |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | 582815 | | SMO | TAL CHI |
| | | | | | | (Start) 01/28/21 14:55 | | |
| | | | | | | (End) 01/28/21 14:57 | | |

**Laboratory References:**

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Accreditation/Certification Summary

Client: The Reese Group, LLC
Project/Site: Millennium Tile

Job ID: 500-194096-1

## Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Wisconsin | State | 999580010 | 08-31-21 |

**Eurofins TestAmerica, Chicago**
241 Bond Street
University Park IL 60484
Phone 708-534-5200 Fax 708-534-5211

# Chain of Custody Record

eurofins

| Client Information | Sampler | Lab PM | Carrier Tracking Nos | COC No |
|---|---|---|---|---|
| | Lee K | Fredrick Sandie | | 500-88600-39682 1 |
| Client Contact: Lee Kimbell | Phone: 2702108583 | E-Mail: sandra.fredrick@eurofinset.com | State of Origin: WI | Page: Page 1 of 1 |
| Company: The Reese Group LLC | ASD | | | Job #: 500-194096 |
| Address: 1433 North Water Street, Suite 400 | Due Date Requested | | | |
| City: Milwaukee | TAT Requested (days): Normal | | | |
| State, Zip: WI 53202 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 414-719-1477(Te | PO #: Purchase Order not required | | | |
| Email: lkimbell@the-reese-group.com | WO #: | | | |
| Project Name: Millenium Tile | Project #: 50008700 | | | |
| Site: 550 E Conway St | SSOW#: | | | |

**Analysis Requested**

500-194096 COC

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4, Z other (specify)
Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6010C, 7196A, 7471A 8270D | 8260B VOC | 8270D PAH | 6020A, 7470A | 8260B VOC | 218.6 Chromium Hexavalent (IC) | pH | Total Number of containers | Special Instructions/Note |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | N | N | N | D | A | N | | | |
| 1 TRG TW-2 | 1/22/21 | 1430 | G | ~~Solid~~ Water | N | N | | | X | X | X | X | + | | Both samples unpreserved for RCRA Metals, please filter in lab |
| 2 TRG TW-3 | 1/23/21 | 1500 | G | ~~Solid~~ Water | N | N | | | X | X | X | X | + | | |
| | | | | Solid | | | | | | | | | | | |
| | | | | Solid | | | | | | | | | | | |
| | | | | Solid | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | Water | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

**Possible Hazard Identification**
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

| Empty Kit Relinquished by | Date | Time | Method of Shipment |
|---|---|---|---|
| | | | |

| Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
|---|---|---|---|---|---|
| [signature] 1600 | 1/22/21 1600 | TRG | Paula Buckley | 1/23/21 1025 | EFM |
| Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
| Relinquished by | Date/Time | Company | Received by | Date/Time | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No. | Cooler Temperature(s) °C and Other Remarks | |
|---|---|---|---|
| | | 0.3 → 0.8 | 16 gt |

# Login Sample Receipt Checklist

Client: The Reese Group, LLC

Job Number: 500-194096-1

**Login Number: 194096**
**List Number: 1**
**Creator: Buckley, Paula M**

**List Source: Eurofins TestAmerica, Chicago**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 0.8 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

The Reese Group
Environment, Compliance, Construction

# *Photographic Documentation*

**Client:** Millennium Forms, Elkhorn, WI
**Location:** 550 E Centralia Street, Elkhorn, WI

**Prepared by:** The Reese Group, LLC

**Photograph No. 1**

**Photographer:** Lee Kimbell

**Photograph Date:** 01/15/2021

**Description:**

View of soil boring completed at boring location TRG SB-2. This boring location is located near the chemical storage area.

**Photograph No. 2**

**Photographer:** Lee Kimbell

**Photograph Date:** 01/15/2021

**Description:**

View of soil boring being completed at TRG SB-2.

## *Photographic Documentation*

**Client:** Millennium Forms, Elkhorn, WI
**Location:** 550 E Centralia Street, Elkhorn, WI

**Prepared by:** The Reese Group, LLC

**Photograph No. 3**

**Photographer:** Lee Kimbell

**Photograph Date:** 01/15/2021

**Description:**

View of soil boring being completed at TRG SB-3. This boring is located adjacent to the process tank and sump.

**Photograph No. 4**

**Photographer:** Lee Kimbell

**Photograph Date:** 01/15/2021

**Description:**

Installation of temporary groundwater monitoring well at TRG SB-3/TRG TW-3.