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February 6, 2020
Project 1902744

VIA EMAIL: Colin.Schmenk@wisconsin.gov

Mr. Colin Schmenk
Hydrogeologist
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, Wisconsin 54313

**Re: Assessment of Current Groundwater Conditions**
**125 CTH CP**
**Coleman, Marinette County, Wisconsin**

Dear Mr. Schmenk:

GEI Consultants, Inc. (GEI) is pleased to provide this summary of results of environmental sampling completed to assist the Wisconsin Department of Natural Resources (WDNR) with assessing current groundwater conditions associated with the D & G Mobil Quikmart Susie's Restaurant site (WDNR Bureau of Remediation and Redevelopment Tracking System [BRRTS] Case No. 03-38-204911), located in Coleman, Wisconsin. These services were provided in accordance with our proposal dated April 15, 2019, and under PO (37000-00000)10888.

## Project Background and Understanding

According to online information (BRRTS on the Web), the site was originally identified in 1998 through petroleum fuel soil contamination associated with an underground storage tank (UST) system. Subsequent soil and groundwater sampling from wells MW-1 through MW-6 documented petroleum-related volatile organic compound (VOC) contamination above applicable residual contaminant levels (RCLs) and NR 140, Wisconsin Administrative Code (WAC), groundwater quality standards.

The site is underlain by approximately 15-feet of sandy and silty glacial soil overlying fractured dolomitic limestone bedrock. The water table was previously encountered at depths of approximately 9- to 11-feet below grade. Groundwater was estimated to flow west-northwest across the site at an average linear velocity of approximately 0.01-feet per day.

Prior to conducting fieldwork, GEI prepared a Health and Safety Plan (HASP) to establish procedures designed to protect GEI personnel from the potential hazards posed by the groundwater sampling activities. The HASP identified measures to limit the potential for accidents or injuries which may result from project activities or during adverse weather conditions, and included sections on hazard/risk analysis, personal protective equipment (PPE), key project personnel/responsibility in lines of authority, training programs, site control measures, incident reporting, and decontamination procedures. The GEI project team has been trained in accordance with requirements in OSHA Standard 29 CFR 1910.120 "Hazardous Waste Operations and Emergency Response" (HAZWOPER) for fieldwork at contaminated sites. A copy of the HASP accompanied GEI personnel to the project site and GEI conducted a project safety briefing prior to the start of fieldwork.



GEI Consultants, Inc.
3159 Voyager Drive, Green Bay, WI 54311
920.455.8200 fax: 920.455.8225

## Field Procedures

GEI retained a subcontract drilling firm (Subsurface Exploration Services, LLC [SES], Little Suamico, Wisconsin) to advance soil borings and install water table observation wells and piezometers at accessible locations coordinated with the WDNR. All monitoring wells were installed consistent with requirements of Chapter NR141, Wisconsin Administrative Code. Prior to drilling, SES contacted Diggers Hotline to clear public utilities in the study area.

The following borings and monitoring installations were completed:

- June 24 through July 1, 2019
    - One piezometer with a 5-foot well screen installed at a depth of 33- to 38-feet below ground surface (bgs) (PZ-8)
    - Three monitoring wells installed with 10-foot well screens at a depth of approximately 25-feet bgs (MW-7, MW-8A, and MW-9).
    - One monitoring well with a 10-foot well screen installed at a depth of approximately 8- to 18-feet bgs (MW-8).
- June 26, 2019 – Four soil boings were completed using a conventional hammer-driven, split-barrel (split-spoon) sampling method (ASTM D1586). Borings SB-4 through SB-6 were advanced to a depth of 4-feet bgs and SB-7 was advanced to refusal at 15.8-feet. Soil samples were collected in the vadose zone of borings SB-4 through SB-7 and an additional soil sample was collected below the groundwater table in SB-7. Soil samples were collected in laboratory supplied vials and submitted to a state certified analytical laboratory for VOC analysis in accordance with EPA Method 8260. In addition, the pre-existing monitoring wells (MW-1 through MW-6) were located and the well conditions were documented.
- July 1 and 2, 2019 – Newly installed monitoring wells were developed in accordance with conditions of Chapter NR141, Wisconsin Administrative Code.
- August 1, 2019 and October 10, 2019 – 11 monitoring wells were purged and groundwater elevation data, field measurements, and groundwater samples were collected using low-flow techniques and disposable equipment. The groundwater samples submitted under chain of custody control to Pace Analytical Laboratories, Green Bay, Wisconsin and analyzed for VOCs in accordance with EPA Method 8260. A field duplicate sample was collected at MW-5 for quality assurance and quality control purposes.

Soil boring and monitoring well locations are indicated as Figure 1.

## Results

A groundwater contour map for the August 2019 sampling event is included as Figure 2.

Analytical test results completed on collected groundwater samples are summarized in Table 1. Table 1 also includes collected field parameters such as groundwater elevation, temperature, conductivity, dissolved oxygen, and oxidation/reduction potential. Laboratory analytical test reports for the soil and groundwater are attached. VOCs were not detected in the soil samples. Notably, petroleum-related VOCs were detected in groundwater samples collected from MW-2, MW-4, MW-5, and MW-6 at concentrations that have decreased by up to an order of magnitude since the wells were last sampled in February 2017. In October 2019, benzene was detected in the new off-site well MW-7 (1.3 ug/L) above the PAL of 0.5 ug/L. MTBE was reported in PZ-8 (1.5J ug/L) below the PAL of 12 ug/L. VOCs were not detected in the other off-site wells installed in 2019, nor in MW-1 or MW-3.

We appreciate this opportunity to provide groundwater sampling services to the WDNR. If you have any further questions, please contact Faith Zangl-Wiese at 920.471.4961 or Roger Miller at. 920.455.8657.

Sincerely,

GEI CONSULTANTS, INC.

Faith M. Zangl-Wiese
Project Hydrogeologist

Roger A. Miller, P.G., C.P.G.
Senior Hydrogeologist

Attachments:
- Figure 1: D&G Mobil Well Locations
- Figure 2: Groundwater Contour Map (8/1/19)
- Table 1: Groundwater Analytical Summary
- Boring Logs
- Monitoring Well Installation Forms
- Monitoring Well Development Forms
- Boring Abandonment Forms
- Soil Analytical Report (6/26/2019)
- Groundwater Analytical Report (8/1/2019)
- Groundwater Analytical Report (10/10/2019)

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0 50'

1" = 50'

N

LEGEND

MW–9 / PZ–8 — MONITORING WELL / PIEZOMETER INSTALLED JUNE/JULY 2019

MW–2 — FORMER WELL

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
D & G MOBIL GROUNDWATER ASSESSMENT
COLEMAN, WI

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D&G WELL LOCATIONS

Project 1902744 | February 2020 | Fig. 1

J:\2019\1902744 - WDNR D&G Property, Coleman WI\Well Locations


0 50’

1” = 50’

N

LEGEND

MW–9 / PZ–8 — MONITORING WELL / PIEZOMETER INSTALLED JUNE/JULY 2019

MW–2 — FORMER WELL

(702.18) — GROUNDWATER ELEVATION (08/01/2019)

GROUNDWATER CONTOUR

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
D & G MOBIL GROUNDWATER ASSESSMENT
COLEMAN, WI

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GROUNDWATER CONTOUR MAP (AUGUST 1, 2019)

Project 1902744 | February 2020 | Fig. 2

J:\2019\1902744 - WDNR D&G Property, Coleman WI\Well Locations

# Table 1.

Groundwater Analytical Summary
WDNR - 1902744 - DG Mobil GW Assessment Coleman
125 CTH CP, Coleman, Marinette County, WI

| | | Wisconsin Regulatory Standards[1,2] | | Sample Location | TW-1 | SB-1 | SB-2 | SB-3 | MW-1 | | | | MW-2 | | | MW-3 | | | MW-4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Date | 10/8/02 | 1/7/08 | 1/7/08 | 1/7/08 | 10/8/02 | 2/1/17 | 8/1/19 | 10/10/19 | 2/1/17 | 8/1/19 | 10/10/19 | 2/1/17 | 8/1/19 | 10/10/19 | 2/1/17 | 8/1/19 | 10/10/19 |
| | *CAS #* | **NR 140 PAL[1]** | **NR 140 ES[2]** | Groundwater Elevation (ft) | | | | | | | 702.93 | 705.14 | | 701.58 | 702.47 | | 701.74 | 704.20 | | 700.8 | 701.50 |
| ***Field Parameters*** | | | | | | | | | | | | | | | | | | | | | |
| Temperature (° C) | | NE | NE | | -- | -- | -- | -- | -- | -- | 13.5 | 15.2 | -- | 12.4 | 15.3 | -- | 13.4 | 15.4 | -- | 11.5 | 13.5 |
| Conductivity (mS/cm) | | NE | NE | | -- | -- | -- | -- | -- | -- | 763 | 0.71 | -- | 447.1 | 0.26 | -- | 2899 | 0.21 | -- | 692 | 0.48 |
| pH (Su) | | NE | NE | | -- | -- | -- | -- | -- | -- | 6.88 | 6.79 | -- | 7.53 | 7.6 | -- | 7.03 | 6.94 | -- | 7.3 | 7.12 |
| Dissolved Oxygen (mg/L) | | NE | NE | | -- | -- | -- | -- | -- | -- | -0.72 | 0.59 | -- | -0.8 | 6.13 | -- | -0.77 | 0.29 | -- | -0.9 | 0.45 |
| Redox Potential | | NE | NE | | -- | -- | -- | -- | -- | -- | -2.3 | -32 | -- | -57.7 | -119 | -- | -15.4 | 50.6 | -- | -178.8 | 85.6 |
| ***METALS (detected analytes)[3] (mg/L)*** | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | 1 | 10 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Barium | 7440-39-3 | 400 | 2,000 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Cadmium | 7440-43-9 | 0.5 | 5 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chromium[5] | 55-83-1/18540- | 10 | 100 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Copper | 7440-50-8 | 130 | 1,300 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Lead | 7439-92-1 | 1.5 | 15 | | -- | -- | -- | -- | -- | **81** | -- | -- | < 6.33 | -- | -- | < 6.33 | -- | -- | < 6.33 | -- | -- |
| Nickel | 7440-02-0 | 20 | 100 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Zinc | 7440-66-6 | 2.5 | 5 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Mercury | 7439-97-6 | 0.2 | 2 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Selenium | 7782-49-2 | 10 | 50 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Silver | 7440-22-4 | 10 | 50 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ***PAHs (detected analytes)[3] (µg/L)*** | | | | | | | | | | | | | | | | | | | | | |
| Acenaphthene | 83-32-9 | NE | NE | | -- | 0.16 | 0.65 | 1.30 | -- | 0.09 | -- | -- | 0.11 | -- | -- | < 0.03 | -- | -- | 5.62 | -- | -- |
| Acenaphthylene | 208-96-8 | NE | NE | | -- | 0.24 J | 0.06 J | 0.11 | -- | < 0.04 | -- | -- | < 0.04 | -- | -- | < 0.04 | -- | -- | 1.20 | -- | -- |
| Anthracene | 120-12-7 | 600 | 3,000 | | -- | 0.03 J | 0.06 J | 0.05 J | -- | < 0.05 | -- | -- | < 0.05 | -- | -- | < 0.05 | -- | -- | < 0.05 | -- | -- |
| Benzo(a)anthracene | 56-55-3 | NE | NE | | -- | 0.03 J | 0.03 J | 0.04 J | -- | < 0.01 | -- | -- | < 0.01 | -- | -- | < 0.01 | -- | -- | 0.18 | -- | -- |
| Benzo(a)pyrene | 50-32-8 | 0.02 | 0.2 | | -- | < 0.01 | < 0.03 | < 0.03 | -- | < 0.04 | -- | -- | < 0.04 | -- | -- | < 0.04 | -- | -- | 0.05 | -- | -- |
| Benzo(b)fluoranthene | 205-99-2 | 0.02 | 0.2 | | -- | *0.03* J | < 0.03 | < 0.03 | -- | < 0.01 | -- | -- | < 0.01 | -- | -- | < 0.01 | -- | -- | *0.05* | -- | -- |
| Benzo(g,h,i)perylene | 191-24-2 | NE | NE | | -- | 0.02 J | < 0.03 | < 0.03 | -- | < 0.01 | -- | -- | < 0.01 | -- | -- | < 0.01 | -- | -- | 0.09 | -- | -- |
| Benzo(k)fluoranthene | 207-08-9 | NE | NE | | -- | < 0.02 | < 0.03 | < 0.03 | -- | < 0.05 | -- | -- | < 0.05 | -- | -- | < 0.05 | -- | -- | < 0.05 | -- | -- |
| Chrysene | 218-01-9 | 0.02 | 0.2 | | -- | *0.04* J | < 0.04 | *0.06* J | -- | < 0.04 | -- | -- | < 0.04 | -- | -- | < 0.04 | -- | -- | 0.17 | -- | -- |
| Dibenzo(a,h)anthracene | 53-70-3 | NE | NE | | -- | < 0.01 | < 0.03 | < 0.03 | -- | < 0.01 | -- | -- | < 0.01 | -- | -- | < 0.01 | -- | -- | < 0.01 | -- | -- |
| Fluoranthene | 206-44-0 | 80 | 400 | | -- | 0.15 | 0.07 J | 0.04 J | -- | < 0.05 | -- | -- | < 0.05 | -- | -- | < 0.05 | -- | -- | < 0.05 | -- | -- |
| Fluorene | 86-73-7 | 80 | 400 | | -- | 0.14 | 0.48 | 1.30 | -- | 0.06 | -- | -- | 0.05 | -- | -- | < 0.03 | -- | -- | 5.93 | -- | -- |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | NE | NE | | -- | 0.01 J | < 0.02 | < 0.02 | -- | < 0.05 | -- | -- | < 0.05 | -- | -- | < 0.05 | -- | -- | < 0.05 | -- | -- |
| 1-Methylnaphthalene | 90-12-0 | NE | NE | | -- | 0.05 J | 2.40 | 2.10 | -- | 0.09 | -- | -- | 27.30 | -- | -- | < 0.03 | -- | -- | 322.00 | -- | -- |
| 2-Methylnaphthalene | 91-57-6 | NE | NE | | -- | 0.03 J | 0.40 | < 0.05 | -- | < 0.03 | -- | -- | 14.10 | -- | -- | < 0.03 | -- | -- | 508.00 | -- | -- |
| Naphthalene | 91-20-3 | 10 | 100 | | -- | 0.37 | 1.90 | 0.27 | -- | < 0.07 | -- | -- | *20.20* | -- | -- | 0.07 | -- | -- | ***656.00*** | -- | -- |
| Phenanthrene | 85-01-8 | NE | NE | | -- | < 0.02 | < 0.04 | 0.77 | -- | 0.15 | -- | -- | 0.06 | -- | -- | < 0.03 | -- | -- | 11.70 | -- | -- |
| Pyrene | 129-00-0 | 50 | 250 | | -- | 0.10 | 0.07 J | 0.06 J | -- | < 0.04 | -- | -- | < 0.04 | -- | -- | < 0.04 | -- | -- | 2.02 | -- | -- |
| ***VOCs (detected analytes)[3] (µg/L)*** | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 71-43-2 | 0.5 | 5 | | *3.20* | *0.98* | < 0.21 | 0.24 J | ***8.70*** | *1.33* | < 0.25 | < 0.25 | ***125*** | **26.1** | ***10.7*** | < 0.23 | < 0.25 | < 0.25 | ***198*** | ***25.0*** | *3.3* J |
| Bromobenzene | 108-86-1 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.24 | < 0.24 | -- | < 0.24 | < 0.24 | -- | < 0.24 | < 0.24 | -- | < 0.24 | < 2.4 |
| Bromochloromethane | 74-97-5 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.36 | < 0.36 | -- | < 0.36 | < 0.36 | -- | < 0.36 | < 0.36 | -- | < 0.36 | < 3.6 |
| Bromodichloromethane | 75-27-4 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.36 | < 0.36 | -- | < 0.36 | < 0.36 | -- | < 0.36 | < 0.36 | -- | < 0.36 | < 3.6 |
| Bromoform | 75-25-2 | 0.44 | 4.4 | | -- | -- | -- | -- | -- | -- | < 4.0 | < 4.0 | -- | < 4.0 | < 4.0 | -- | < 4.0 | < 4.0 | -- | < 4.0 | < 39.70 |
| Bromomethane | 74-83-9 | 1 | 10 | | -- | -- | -- | -- | -- | -- | < 0.97 | < 0.97 | -- | < 0.97 | < 0.97 | -- | < 0.97 | < 0.97 | -- | < 0.97 | < 9.7 |
| n-Butylbenzene | 104-51-8 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.71 | < 0.71 | -- | < 0.71 | < 0.71 | -- | < 0.71 | < 0.71 | -- | < 0.71 | < 7.1 |
| sec-Butylbenzene | 135-98-8 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.85 | < 0.85 | -- | < 0.85 | < 0.85 | -- | < 0.85 | < 0.85 | -- | 13.0 | 11.4 J |
| tert-Butylbenzene | 98-06-6 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.30 | < 0.30 | -- | < 0.30 | < 0.30 | -- | < 0.30 | < 0.30 | -- | < 0.30 | < 3.0 |
| Carbon tetrachloride | 56-23-5 | 0.5 | 5 | | -- | -- | -- | -- | -- | -- | < 0.17 | < 0.17 | -- | < 0.17 | < 0.17 | -- | < 0.17 | < 0.17 | -- | < 0.17 | < 1.7 |
| Chlorobenzene | 108-90-7 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.71 | < 0.71 | -- | < 0.71 | < 0.71 | -- | < 0.71 | < 0.71 | -- | < 0.71 | < 7.1 |
| Chloroethane | 75-00-3 | 80 | 400 | | -- | -- | -- | -- | -- | -- | < 1.3 | < 1.3 | -- | < 1.3 | < 1.3 | -- | < 1.3 | < 1.3 | -- | < 1.3 | < 13.4 |
| Chloroform | 67-66-3 | 0.6 | 6 | | -- | -- | -- | -- | -- | -- | < 1.3 | < 1.3 | -- | < 1.3 | < 1.3 | -- | < 1.3 | < 1.3 | -- | < 1.3 | < 12.7 |
| Chloromethane | 74-87-3 | 3 | 30 | | -- | -- | -- | -- | -- | -- | < 2.2 | < 2.2 | -- | < 2.2 | < 2.2 | -- | < 2.2 | < 2.2 | -- | < 2.2 | < 21.9 |
| 2-Chlorotoluene | 95-49-8 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.93 | < 0.93 | -- | < 0.93 | < 0.93 | -- | < 0.93 | < 0.93 | -- | < 0.93 | < 9.3 |
| 4-Chlorotoluene | 106-43-4 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.76 | < 0.76 | -- | < 0.76 | < 0.76 | -- | < 0.76 | < 0.76 | -- | < 0.76 | < 7.6 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.02 | 0.2 | | -- | -- | -- | -- | -- | -- | < 1.8 | < 1.8 | -- | < 1.8 | < 1.8 | -- | < 1.8 | < 1.8 | -- | < 1.8 | < 17.6 |
| Dibromochloromethane | 124-48-1 | 6 | 60 | | -- | -- | -- | -- | -- | -- | < 2.6 | < 2.6 | -- | < 2.6 | < 2.6 | -- | < 2.6 | < 2.6 | -- | < 2.6 | < 26.0 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 0.005 | 0.05 | | -- | -- | -- | -- | -- | -- | < 0.83 | < 0.83 | -- | < 0.83 | < 0.83 | -- | < 0.83 | < 0.83 | -- | < 0.83 | < 8.3 |
| Dibromomethane | 74-95-3 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.94 | < 0.94 | -- | < 0.94 | < 0.94 | -- | < 0.94 | < 0.94 | -- | < 0.94 | < 9.4 |

# Table 1.

Groundwater Analytical Summary
WDNR - 1902744 - DG Mobil GW Assessment Coleman
125 CTH CP, Coleman, Marinette County, WI

| | | Wisconsin Regulatory Standards[1,2] | | Sample Location | TW-1 | SB-1 | SB-2 | SB-3 | MW-1 | | | | MW-2 | | | MW-3 | | | MW-4 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Date | 10/8/02 | 1/7/08 | 1/7/08 | 1/7/08 | 10/8/02 | 2/1/17 | 8/1/19 | 10/10/19 | 2/1/17 | 8/1/19 | 10/10/19 | 2/1/17 | 8/1/19 | 10/10/19 | 2/1/17 | 8/1/19 | 10/10/19 |
| | ***CAS #*** | **NR 140 PAL[1]** | **NR 140 ES[2]** | Groundwater Elevation (ft) | | | | | | | 702.93 | 705.14 | | 701.58 | 702.47 | | 701.74 | 704.20 | | 700.8 | 701.50 |
| 1,2-Dichlorobenzene | 95-50-1 | 60 | 600 | | -- | -- | -- | -- | -- | -- | < 0.71 | < 0.71 | -- | < 0.71 | < 0.71 | -- | < 0.71 | < 0.71 | -- | < 0.71 | < 7.1 |
| 1,3-Dichlorobenzene | 541-73-1 | 120 | 600 | | -- | -- | -- | -- | -- | -- | < 0.63 | < 0.63 | -- | < 0.63 | < 0.63 | -- | < 0.63 | < 0.63 | -- | < 0.63 | < 6.3 |
| 1,4-Dichlorobenzene | 106-46-7 | 15 | 75 | | -- | -- | -- | -- | -- | -- | < 0.94 | < 0.94 | -- | < 0.94 | < 0.94 | -- | < 0.94 | < 0.94 | -- | < 0.94 | < 9.4 |
| Dichlorodifluoromethane | 75-71-8 | 200 | 1,000 | | -- | -- | -- | -- | -- | -- | < 0.50 | < 0.50 | -- | < 0.50 | < 0.50 | -- | < 0.50 | < 0.50 | -- | < 0.50 | < 5.0 |
| 1,1-Dichloroethane | 75-34-3 | 85 | 850 | | -- | -- | -- | -- | -- | -- | < 0.27 | < 0.27 | -- | < 0.27 | < 0.27 | -- | < 0.27 | < 0.27 | -- | < 0.27 | < 2.7 |
| 1,2-Dichloroethane | 107-06-2 | 0.5 | 5 | | -- | -- | -- | -- | -- | -- | < 0.28 | < 0.28 | -- | < 0.28 | < 0.28 | -- | < 0.28 | < 0.28 | -- | < 0.28 | < 2.8 |
| 1,1-Dichloroethene | 75-35-4 | 0.7 | 7 | | -- | -- | -- | -- | -- | -- | < 0.24 | < 0.24 | -- | < 0.24 | < 0.24 | -- | < 0.24 | < 0.24 | -- | < 0.24 | < 2.4 |
| cis-1,2-Dichloroethene | 156-59-2 | 7 | 70 | | -- | -- | -- | -- | -- | -- | < 0.27 | < 0.27 | -- | < 0.27 | < 0.27 | -- | < 0.27 | < 0.27 | -- | < 0.27 | < 2.7 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.5 | 100 | | -- | -- | -- | -- | -- | -- | < 1.1 | < 1.1 | -- | < 1.1 | < 1.1 | -- | < 1.1 | < 1.1 | -- | < 1.1 | < 10.9 |
| 1,2-Dichloropropane | 78-87-5 | 0.5 | 5 | | -- | -- | -- | -- | -- | -- | < 0.28 | < 0.28 | -- | < 0.28 | < 0.28 | -- | < 0.28 | < 0.28 | -- | < 0.28 | < 2.8 |
| 1,3-Dichloropropane | 142-28-9 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.83 | < 0.83 | -- | < 0.83 | < 0.83 | -- | < 0.83 | < 0.83 | -- | < 0.83 | < 8.3 |
| 2,2-Dichloropropane | 594-20-7 | NE | NE | | -- | -- | -- | -- | -- | -- | < 2.3 | < 2.3 | -- | < 2.3 | < 2.3 | -- | < 2.3 | < 2.3 | -- | < 2.3 | < 22.7 |
| 1,1-Dichloropropene | | 0.7 | 7 | | -- | -- | -- | -- | -- | -- | < 0.54 | < 0.54 | -- | < 0.54 | < 0.54 | -- | < 0.54 | < 0.54 | -- | < 0.54 | < 5.4 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.04 | 0.4 | | -- | -- | -- | -- | -- | -- | < 3.6 | < 3.6 | -- | < 3.6 | < 3.6 | -- | < 3.6 | < 3.6 | -- | < 3.6 | < 36.3 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.04 | 0.4 | | -- | -- | -- | -- | -- | -- | < 4.4 | < 4.4 | -- | < 4.4 | < 4.4 | -- | < 4.4 | < 4.4 | -- | < 4.4 | < 43.7 |
| Diisopropyl ether | 108-20-3 | NE | NE | | -- | -- | -- | -- | -- | -- | < 1.9 | < 1.9 | -- | < 1.9 | < 1.9 | -- | < 1.9 | < 1.9 | -- | < 1.9 | < 18.9 |
| Ethylbenzene | 100-41-4 | 140 | 700 | | 28 | < 0.23 | < 0.23 | < 0.23 | *510* | < 0.40 | < 0.22 | < 0.22 | *433* | *169* | 98.3 | 0.63 | < 0.22 | < 0.22 | ***2,350*** | 758 | *636* |
| Hexachloro-1,3-butadiene | 87-68-3 | NE | NE | | -- | -- | -- | -- | -- | -- | < 1.2 | < 1.2 | -- | < 1.2 | < 1.2 | -- | < 1.2 | < 1.2 | -- | < 1.2 | < 11.8 |
| Isopropylbenzene (Cumene) | 98-82-8 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.39 | < 0.39 | -- | 6.4 | 3.0 J | -- | < 0.39 | < 0.39 | -- | 65.6 | 47.8 J |
| p-Isopropyltoluene | 99-87-6 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.80 | < 0.80 | -- | < 0.80 | < 0.80 | -- | < 0.80 | < 0.80 | -- | 8.0 | < 8.0 |
| Methylene Chloride | 75-09-2 | 0.5 | 5 | | -- | -- | -- | -- | -- | -- | < 0.58 | < 0.58 | -- | < 0.58 | < 0.58 | -- | < 0.58 | < 0.58 | -- | < 0.58 | < 5.8 |
| Methyl-tert-butyl ether | 1634-04-4 | 12 | 60 | | < 0.87 | < 0.12 | < 0.12 | < 0.12 | < 8.70 | < 0.84 | < 1.2 | < 1.2 | < 8.40 | < 1.2 | < 1.2 | < 0.84 | < 1.2 | < 1.2 | < 420 | < 1.2 | < 12.5 |
| Naphthalene | 91-20-3 | 10 | 100 | | *12* | 2.20 | 4.90 | 8.10 | ***180*** | < 0.74 | < 1.2 | < 1.2 | ***112*** | 30.2 | *17.2* | < 0.74 | < 1.2 | < 1.2 | ***661*** | **141** | *90.7* |
| n-Propylbenzene | 103-65-1 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.81 | < 0.81 | -- | 14.3 | 7.5 | -- | < 0.81 | < 0.81 | -- | 192 | 158 |
| Styrene | 100-42-5 | 10 | 100 | | -- | -- | -- | -- | -- | -- | < 0.47 | < 0.47 | -- | < 0.47 | < 0.47 | -- | < 0.47 | < 0.47 | -- | < 0.47 | < 4.7 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 7 | 70 | | -- | -- | -- | -- | -- | -- | < 0.27 | < 0.27 | -- | < 0.27 | < 0.27 | -- | < 0.27 | < 0.27 | -- | < 0.27 | < 2.7 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.02 | 0.2 | | -- | -- | -- | -- | -- | -- | < 0.28 | < 0.28 | -- | < 0.28 | < 0.28 | -- | < 0.28 | < 0.28 | -- | < 0.28 | < 2.8 |
| Tetrachloroethene | 127-18-4 | 0.5 | 5 | | -- | -- | -- | -- | -- | -- | < 0.33 | < 0.33 | -- | < 0.33 | < 0.33 | -- | < 0.33 | < 0.33 | -- | < 0.33 | < 3.3 |
| Toluene | 108-88-3 | 160 | 800 | | 21 | 0.86 | 0.24 J | 0.77 | 13 | < 1.37 | < 0.17 | < 0.17 | *394* | *351* | *195* | < 1.37 | < 0.17 | < 0.17 | ***1,270*** | 20.2 | 8.2 J |
| 1,2,3-Trichlorobenzene | 87-61-6 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.63 | < 0.63 | -- | < 0.63 | < 0.63 | -- | < 0.63 | < 0.63 | -- | < 0.63 | < 6.3 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 14 | 70 | | -- | -- | -- | -- | -- | -- | < 0.95 | < 0.95 | -- | < 0.95 | < 1.0 | -- | < 0.95 | < 0.95 | -- | < 0.95 | < 9.5 |
| 1,1,1-Trichloroethane | 71-55-6 | 40 | 200 | | -- | -- | -- | -- | -- | -- | < 0.24 | < 0.24 | -- | < 0.24 | < 0.24 | -- | < 0.24 | < 0.24 | -- | < 0.24 | < 2.4 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.5 | 5 | | -- | -- | -- | -- | -- | -- | < 0.55 | < 0.55 | -- | < 0.55 | < 0.55 | -- | < 0.55 | < 0.55 | -- | < 0.55 | < 5.5 |
| Trichloroethene | 79-01-6 | 0.5 | 5 | | -- | -- | -- | -- | -- | -- | < 0.26 | < 0.26 | -- | < 0.26 | < 0.26 | -- | < 0.26 | < 0.26 | -- | < 0.26 | < 2.6 |
| Trichlorofluoromethane | 75-69-4 | NE | NE | | -- | -- | -- | -- | -- | -- | < 0.21 | < 0.21 | -- | < 0.21 | < 0.21 | -- | < 0.21 | < 0.21 | -- | < 0.21 | < 2.1 |
| 1,2,3-Trichloropropane | 96-18-4 | 12 | 60 | | -- | -- | -- | -- | -- | -- | < 0.59 | < 0.59 | -- | < 0.59 | < 0.59 | -- | < 0.59 | < 0.59 | -- | < 0.59 | < 5.9 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 96 | 480 | | -- | -- | -- | -- | -- | -- | < 0.84 | < 0.84 | -- | 92.5 | 53.5 | -- | < 0.84 | < 0.84 | -- | ***852*** | ***692*** |
| 1,3,5-Trimethylbenzene | 108-67-8 | | | | 62 | 4.50 | < 0.24 | 0.37 J | ***1,530*** | < 0.26 | < 0.87 | < 0.87 | ***484.30*** | 20.8 | 11.9 | 0.70 | < 0.87 | < 0.87 | ***4,850*** | 217 | *129* |
| Vinyl chloride | 75-01-4 | 0.02 | 0.2 | | -- | -- | -- | -- | -- | -- | < 0.17 | < 0.17 | -- | < 0.17 | < 0.17 | -- | < 0.17 | < 0.17 | -- | < 0.17 | < 1.7 |
| m&p-Xylene | 1330-20-7 | 400 | 2,000 | | -- | -- | -- | -- | -- | -- | < 0.47 | < 0.47 | -- | *410* | 272 | -- | < 0.47 | < 0.47 | -- | *1270* | *809* |
| o-Xylene | | | | | 94 | 1.50 | < 0.66 | 0.66 J | ***2,000*** | 1.38 | < 0.26 | < 0.26 | *1,601* | 144 | 77.6 | 2.40 | < 0.26 | < 0.26 | ***8,350*** | 30.0 | 19.7 |

**Notes**

(mg/kg) = milligrams per kilogram; -- = not analyzed; (µg/kg) = micrograms per kilogram;
< = not detected above method detection limit; DC = Direct Contact; GW = Groundwater
J = concentration between detection limit and reporting limit; NE = Not Established;
PAHs = Polycyclic Aromatic Hydrocarbons; VOCs = Volatile Organic Compounds;
WT = Sample below observable water table PCBs = Polychlorinated Biphenyls;

[1] NR 140 PAL = Chapter NR 140, Wisconsin Administrative Code, Preventive Action Limit;
[2] NR 140 ES = Chapter NR 140, Wisconsin Administrative Code, Enforcement Standard;
[3]Only detected analytes are listed; refer to the laboratory analytical report for a full list of assessed analytes
Exceeds NR 140 ES standards **100**
Exceeds NR 140 PAL standards *100*

# Table 1.

Groundwater Analytical Summary
WDNR - 1902744 - DG Mobil GW Assessment Coleman
125 CTH CP, Coleman, Marinette County, WI

| | | Wisconsin Regulatory Standards[1,2] | | Sample Location | MW-5 | | | MW-6 | | | MW-7 | | MW-8 | | MW-8A | | PZ-8 | | MW-9 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Date | 2/1/17 | 8/1/19 | 10/10/19 | 2/1/17 | 8/1/19 | 10/10/19 | 8/1/19 | 10/10/19 | 8/1/19 | 10/10/19 | 8/1/19 | 10/10/19 | 8/1/19 | 10/10/19 | 8/1/19 | 10/10/19 |
| | ***CAS #*** | **NR 140 PAL[1]** | **NR 140 ES[2]** | Groundwater Elevation (ft) | | 702.04 | 700.02 | | 702.18 | 702.75 | 701.40 | 703.28 | 700.40 | 700.95 | 701.17 | 701.30 | 698.73 | 699.74 | 698.74 | 699.73 |
| ***Field Parameters*** | | | | | | | | | | | | | | | | | | | | |
| Temperature (° C) | | NE | NE | | -- | 13.6 | 15.2 | -- | 12.8 | 14.8 | 15.7 | 15.3 | 14.3 | 15.2 | 16.2 | 15.8 | 14.1 | 15 | 14.4 | 14.7 |
| Conductivity (mS/cm) | | NE | NE | | -- | 915 | 0.797 | -- | 907 | 0.55 | 742 | 0.73 | 1131 | 0.013 | 1151 | 0.78 | 1243 | 0.82 | 665 | 0.045 |
| pH (Su) | | NE | NE | | -- | 7.01 | 6.87 | -- | 7.12 | 7.23 | 7.38 | 6.86 | 7.34 | 7.43 | 6.88 | 7.3 | 7.24 | 7.32 | 7.55 | 7.38 |
| Dissolved Oxygen (mg/L) | | NE | NE | | -- | -0.81 | 7.9 | -- | 7.56 | 6.97 | 5.31 | 5.46 | -0.21 | 2.39 | 2.8 | 2.52 | 0.5 | 0.86 | 7.87 | 8.21 |
| Redox Potential | | NE | NE | | -- | -88.5 | -35.9 | -- | 165 | 115 | 225.7 | 101.9 | 171 | 157 | 182.2 | 117.5 | 160.6 | 113.9 | 184.2 | 193.1 |
| ***METALS (detected analytes)[3] (mg/L)*** | | | | | | | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | 1 | 10 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Barium | 7440-39-3 | 400 | 2,000 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Cadmium | 7440-43-9 | 0.5 | 5 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chromium[5] | 55-83-1/18540- | 10 | 100 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Copper | 7440-50-8 | 130 | 1,300 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Lead | 7439-92-1 | 1.5 | 15 | | < 6.33 | -- | -- | < 6.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Nickel | 7440-02-0 | 20 | 100 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Zinc | 7440-66-6 | 2.5 | 5 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Mercury | 7439-97-6 | 0.2 | 2 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Selenium | 7782-49-2 | 10 | 50 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Silver | 7440-22-4 | 10 | 50 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ***PAHs (detected analytes)[3] (µg/L)*** | | | | | | | | | | | | | | | | | | | | |
| Acenaphthene | 83-32-9 | NE | NE | | 0.23 | -- | -- | 0.95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Acenaphthylene | 208-96-8 | NE | NE | | 0.08 | -- | -- | 0.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Anthracene | 120-12-7 | 600 | 3,000 | | < 0.05 | -- | -- | < 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(a)anthracene | 56-55-3 | NE | NE | | < 0.01 | -- | -- | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(a)pyrene | 50-32-8 | 0.02 | 0.2 | | < 0.04 | -- | -- | < 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(b)fluoranthene | 205-99-2 | 0.02 | 0.2 | | < 0.01 | -- | -- | < 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(g,h,i)perylene | 191-24-2 | NE | NE | | < 0.01 | -- | -- | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Benzo(k)fluoranthene | 207-08-9 | NE | NE | | < 0.05 | -- | -- | < 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chrysene | 218-01-9 | 0.02 | 0.2 | | < 0.04 | -- | -- | < 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dibenzo(a,h)anthracene | 53-70-3 | NE | NE | | < 0.01 | -- | -- | < 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Fluoranthene | 206-44-0 | 80 | 400 | | < 0.05 | -- | -- | < 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Fluorene | 86-73-7 | 80 | 400 | | 0.13 | -- | -- | 1.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | NE | NE | | < 0.05 | -- | -- | < 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1-Methylnaphthalene | 90-12-0 | NE | NE | | 90.30 | -- | -- | 37.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2-Methylnaphthalene | 91-57-6 | NE | NE | | 83.80 | -- | -- | 7.98 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Naphthalene | 91-20-3 | 10 | 100 | | ***169.00*** | -- | -- | 2.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Phenanthrene | 85-01-8 | NE | NE | | 0.08 | -- | -- | 1.64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pyrene | 129-00-0 | 50 | 250 | | < 0.04 | -- | -- | 0.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ***VOCs (detected analytes)[3] (µg/L)*** | | | | | | | | | | | | | | | | | | | | |
| Benzene | 71-43-2 | 0.5 | 5 | | ***156*** | ***36.5*** | ***44.5*** | ***10.80*** | < 0.25 | < 0.25 | < 0.25 | 1.3 | < 0.25 | < 0.25 | < 0.25 | < 0.25 | < 0.25 | < 0.25 | < 0.25 | < 0.25 |
| Bromobenzene | 108-86-1 | NE | NE | | -- | < 6.0 | < 9.6 | -- | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 |
| Bromochloromethane | 74-97-5 | NE | NE | | -- | < 9.1 | < 14.5 | -- | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 |
| Bromodichloromethane | 75-27-4 | NE | NE | | -- | < 9.1 | < 14.5 | -- | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 |
| Bromoform | 75-25-2 | 0.44 | 4.4 | | -- | < 99.3 | < 159 | -- | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 |
| Bromomethane | 74-83-9 | 1 | 10 | | -- | < 24.3 | < 38.9 | -- | < 0.97 | < 0.97 | < 0.97 | < 0.97 | < 0.97 | < 0.97 | < 0.97 | < 0.97 | < 0.97 | < 0.97 | < 0.97 | < 0.97 |
| n-Butylbenzene | 104-51-8 | NE | NE | | -- | < 17.7 | < 28.3 | -- | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 |
| sec-Butylbenzene | 135-98-8 | NE | NE | | -- | < 21.2 | < 33.9 | -- | < 0.85 | < 0.85 | < 0.85 | < 0.85 | < 0.85 | < 0.85 | < 0.85 | < 0.85 | < 0.85 | < 0.85 | < 0.85 | < 0.85 |
| tert-Butylbenzene | 98-06-6 | NE | NE | | -- | < 7.6 | < 12.2 | -- | < 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| Carbon tetrachloride | 56-23-5 | 0.5 | 5 | | -- | < 4.1 | < 6.6 | -- | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 |
| Chlorobenzene | 108-90-7 | NE | NE | | -- | < 17.8 | < 28.4 | -- | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 |
| Chloroethane | 75-00-3 | 80 | 400 | | -- | < 33.6 | < 53.7 | -- | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 |
| Chloroform | 67-66-3 | 0.6 | 6 | | -- | < 31.8 | < 51.0 | -- | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 | < 1.3 |
| Chloromethane | 74-87-3 | 3 | 30 | | -- | < 54.7 | < 87.6 | -- | < 2.2 | < 2.2 | < 2.2 | < 2.2 | < 2.2 | < 2.2 | < 2.2 | < 2.2 | < 2.2 | < 2.2 | < 2.2 | < 2.2 |
| 2-Chlorotoluene | 95-49-8 | NE | NE | | -- | < 23.2 | < 37.0 | -- | < 0.93 | < 0.93 | < 0.93 | < 0.93 | < 0.93 | < 0.93 | < 0.93 | < 0.93 | < 0.93 | < 0.93 | < 0.93 | < 0.93 |
| 4-Chlorotoluene | 106-43-4 | NE | NE | | -- | < 18.9 | < 30.3 | -- | < 0.76 | < 0.76 | < 0.76 | < 0.76 | < 0.76 | < 0.76 | < 0.76 | < 0.76 | < 0.76 | < 0.76 | < 0.76 | < 0.76 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.02 | 0.2 | | -- | < 44.1 | < 70.5 | -- | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| Dibromochloromethane | 124-48-1 | 6 | 60 | | -- | < 65.0 | < 104 | -- | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | < 2.6 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 0.005 | 0.05 | | -- | < 20.7 | < 33.2 | -- | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 |
| Dibromomethane | 74-95-3 | NE | NE | | -- | < 23.4 | < 37.5 | -- | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 |

# Table 1.

Groundwater Analytical Summary
WDNR - 1902744 - DG Mobil GW Assessment Coleman
125 CTH CP, Coleman, Marinette County, WI

| | | Wisconsin Regulatory Standards[1,2] | | Sample Location | MW-5 | | | MW-6 | | | MW-7 | | MW-8 | | MW-8A | | PZ-8 | | MW-9 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Date | 2/1/17 | 8/1/19 | 10/10/19 | 2/1/17 | 8/1/19 | 10/10/19 | 8/1/19 | 10/10/19 | 8/1/19 | 10/10/19 | 8/1/19 | 10/10/19 | 8/1/19 | 10/10/19 | 8/1/19 | 10/10/19 |
| | ***CAS #*** | **NR 140 PAL[1]** | **NR 140 ES[2]** | Groundwater Elevation (ft) | | 702.04 | 700.02 | | 702.18 | 702.75 | 701.40 | 703.28 | 700.40 | 700.95 | 701.17 | 701.30 | 698.73 | 699.74 | 698.74 | 699.73 |
| 1,2-Dichlorobenzene | 95-50-1 | 60 | 600 | | -- | < 17.6 | < 28.2 | -- | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 | < 0.71 |
| 1,3-Dichlorobenzene | 541-73-1 | 120 | 600 | | -- | < 15.7 | < 25.1 | -- | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 |
| 1,4-Dichlorobenzene | 106-46-7 | 15 | 75 | | -- | < 23.6 | < 37.7 | -- | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 | < 0.94 |
| Dichlorodifluoromethane | 75-71-8 | 200 | 1,000 | | -- | < 12.5 | < 20.0 | -- | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 1,1-Dichloroethane | 75-34-3 | 85 | 850 | | -- | < 6.8 | < 10.9 | -- | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 |
| 1,2-Dichloroethane | 107-06-2 | 0.5 | 5 | | -- | < 7.0 | < 11.2 | -- | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 |
| 1,1-Dichloroethene | 75-35-4 | 0.7 | 7 | | -- | < 6.1 | < 9.8 | -- | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 |
| cis-1,2-Dichloroethene | 156-59-2 | 7 | 70 | | -- | < 6.8 | < 10.8 | -- | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.5 | 100 | | -- | < 27.3 | < 43.6 | -- | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 1,2-Dichloropropane | 78-87-5 | 0.5 | 5 | | -- | < 7.1 | < 11.3 | -- | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 |
| 1,3-Dichloropropane | 142-28-9 | NE | NE | | -- | < 20.6 | < 33.0 | -- | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 |
| 2,2-Dichloropropane | 594-20-7 | NE | NE | | -- | < 56.6 | < 90.6 | -- | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 | < 2.3 |
| 1,1-Dichloropropene | | 0.7 | 7 | | -- | < 13.5 | < 21.6 | -- | < 0.54 | < 0.54 | < 0.54 | < 0.54 | < 0.54 | < 0.54 | < 0.54 | < 0.54 | < 0.54 | < 0.54 | < 0.54 | < 0.54 |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.04 | 0.4 | | -- | < 90.7 | < 145 | -- | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 |
| trans-1,3-Dichloropropene | 10061-02-6 | 0.04 | 0.4 | | -- | < 109 | < 175 | -- | < 4.4 | < 4.4 | < 4.4 | < 4.4 | < 4.4 | < 4.4 | < 4.4 | < 4.4 | < 4.4 | < 4.4 | < 4.4 | < 4.4 |
| Diisopropyl ether | 108-20-3 | NE | NE | | -- | < 47.2 | < 75.5 | -- | < 1.9 | < 1.9 | < 1.9 | < 1.9 | < 1.9 | < 1.9 | < 1.9 | < 1.9 | < 1.9 | < 1.9 | < 1.9 | < 1.9 |
| Ethylbenzene | 100-41-4 | 140 | 700 | | ***1,050*** | ***3550*** | ***3,490*** | 33.30 | 2.1 | 3.3 | < 0.22 | < 0.22 | < 0.22 | < 0.22 | < 0.22 | < 0.22 | < 0.22 | < 0.22 | < 0.22 | < 0.22 |
| Hexachloro-1,3-butadiene | 87-68-3 | NE | NE | | -- | < 29.6 | < 47.3 | -- | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 |
| Isopropylbenzene (Cumene) | 98-82-8 | NE | NE | | -- | 92.2 J | 98.7 J | -- | 0.53 J | 0.82 J | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 |
| p-Isopropyltoluene | 99-87-6 | NE | NE | | -- | < 20.0 | < 32.0 | -- | < 0.80 | < 0.80 | < 0.80 | < 0.80 | < 0.80 | < 0.80 | < 0.80 | < 0.80 | < 0.80 | < 0.80 | < 0.80 | < 0.80 |
| Methylene Chloride | 75-09-2 | 0.5 | 5 | | -- | < 14.5 | < 23.2 | -- | < 0.58 | < 0.58 | < 0.58 | < 0.58 | < 0.58 | < 0.58 | < 0.58 | < 0.58 | < 0.58 | < 0.58 | < 0.58 | < 0.58 |
| Methyl-tert-butyl ether | 1634-04-4 | 12 | 60 | | < 42 | < 31.1 | < 49.8 | < 8.40 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | 1.5 J | < 1.2 | < 1.2 |
| Naphthalene | 91-20-3 | 10 | 100 | | ***129*** | ***645*** | ***556*** | *23.50* | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 |
| n-Propylbenzene | 103-65-1 | NE | NE | | -- | 281 | 268 | -- | 2.5 J | 3.4 J | < 0.81 | < 0.81 | < 0.81 | < 0.81 | < 0.81 | < 0.81 | < 0.81 | < 0.81 | < 0.81 | < 0.81 |
| Styrene | 100-42-5 | 10 | 100 | | -- | < 11.6 | < 18.6 | -- | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 7 | 70 | | -- | < 6.7 | < 10.8 | -- | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.02 | 0.2 | | -- | < 6.9 | < 11.0 | -- | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 |
| Tetrachloroethene | 127-18-4 | 0.5 | 5 | | -- | < 8.2 | < 13.1 | -- | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 |
| Toluene | 108-88-3 | 160 | 800 | | 98.90 | *160* | 118 J | < 13.70 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 |
| 1,2,3-Trichlorobenzene | 87-61-6 | NE | NE | | -- | < 15.6 | < 25.0 | -- | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 | < 0.63 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 14 | 70 | | -- | < 23.8 | < 38.1 | -- | < 0.95 | < 0.95 | < 0.95 | < 0.95 | < 0.95 | < 0.95 | < 0.95 | < 0.95 | < 0.95 | < 0.95 | < 0.95 | < 0.95 |
| 1,1,1-Trichloroethane | 71-55-6 | 40 | 200 | | -- | < 6.1 | < 9.8 | -- | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 |
| 1,1,2-Trichloroethane | 79-00-5 | 0.5 | 5 | | -- | < 13.8 | < 22.1 | -- | < 0.55 | < 0.55 | < 0.55 | < 0.55 | < 0.55 | < 0.55 | < 0.55 | < 0.55 | < 0.55 | < 0.55 | < 0.55 | < 0.55 |
| Trichloroethene | 79-01-6 | 0.5 | 5 | | -- | < 6.4 | < 10.2 | -- | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.26 |
| Trichlorofluoromethane | 75-69-4 | NE | NE | | -- | < 5.4 | < 8.6 | -- | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 |
| 1,2,3-Trichloropropane | 96-18-4 | 12 | 60 | | -- | < 14.8 | < 23.6 | -- | < 0.59 | < 0.59 | < 0.59 | < 0.59 | < 0.59 | < 0.59 | < 0.59 | < 0.59 | < 0.59 | < 0.59 | < 0.59 | < 0.59 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 96 | 480 | | -- | **1950** | ***1,830*** | -- | 15.1 | 18.8 | < 0.84 | < 0.84 | < 0.84 | < 0.84 | < 0.84 | < 0.84 | < 0.84 | < 0.84 | < 0.84 | < 0.84 |
| 1,3,5-Trimethylbenzene | 108-67-8 | | | | ***1,866*** | *447* | *438* | ***506.50*** | 4.2 | 5.2 | < 0.87 | < 0.87 | < 0.87 | < 0.87 | < 0.87 | < 0.87 | < 0.87 | < 0.87 | < 0.87 | < 0.87 |
| Vinyl chloride | 75-01-4 | 0.02 | 0.2 | | -- | < 4.4 | < 7.0 | -- | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 | < 0.17 |
| m&p-Xylene | 1330-20-7 | 400 | 2,000 | | -- | ***8010*** | ***8,000*** | -- | 6.4 | 9.4 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 |
| o-Xylene | | | | | ***5,006*** | *424* | 261 | 68.30 | 0.51 J | 0.79 J | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.26 | < 0.26 |

**Notes**

(mg/kg) = milligrams per kilogram; -- = not analyzed; (µg/kg) = micrograms per kilogram;
< = not detected above method detection limit; DC = Direct Contact; GW = Groundwater
J = concentration between detection limit and reporting limit; NE = Not Established;
PAHs = Polycyclic Aromatic Hydrocarbons; VOCs = Volatile Organic Compounds;
WT = Sample below observable water table PCBs = Polychlorinated Biphenyls;

[1] NR 140 PAL = Chapter NR 140, Wisconsin Administrative Code, Preventive Action Limit;
[2] NR 140 ES = Chapter NR 140, Wisconsin Administrative Code, Enforcement Standard;
[3]Only detected analytes are listed; refer to the laboratory analytical report for a full list of assessed analytes
Exceeds NR 140 ES standards **100**
Exceeds NR 140 PAL standards *100*

State of Wisconsin
Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

| Facility/Project Name | License/Permit/Monitoring Number | Boring Number |
|---|---|---|
| D&G Mobil GW Assessment | | MW-7 |

| Boring Drilled By: Name of crew chief (first, last) and Firm | Date Drilling Started | Date Drilling Completed | Drilling Method |
|---|---|---|---|
| John Carlson<br>Subsurface Explorations Services, LLC | 6/26/2019 | 6/27/2019 | hollow stem auger |

| WI Unique Well No. | DNR Well ID No. | Common Well Name | Final Static Water Level | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| VS947 | | MW-7 | Feet | 712.8 Feet MSL | 6.0 inches |

Local Grid Origin ☒ (estimated: ☐ ) or Boring Location ☐
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 14, T 30 N, R 20
MSL
Lat ° ' "
Long ° ' "
Local Grid Location
136951 Feet ☒ N ☐ S 698204 Feet ☒ E ☐ W

| Facility ID | County | County Code | Civil Town/City/ or Village |
|---|---|---|---|
| | Marinette | 38 | Coleman |

| 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 | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 318 | | 1 | Dark brown sandy topsoil - trace organics - trace roots - moist (topsoil) | | | | | | | | | | |
| | | | 2 | Brown fine sand - trace clay - some gravel - moist (SP) | | | | 0.0 | | | | | | |
| | | | 3 | | | | | | | | | | | |
| | | | 4 | | | | | | | | | | | |
| | | | 5 | | | | | 0.0 | | | | | | |
| | | | 6 | | | | | | | | | | | |
| | | | 7 | | | | | | | | | | | |
| | | | 8 | | | | | | | | | | | |
| | | | 9 | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | |
| | | | 11 | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | |
| | | | 13 | Auger refusal at 13.5 feet | | | | | | | | | | |
| | | | 14 | Limestone bedrock | | | | | | | | | | |
| | | | 15 | | | | | | | | | | | |
| | | | 16 | | | | | | | | | | | |
| | | | 17 | | | | | | | | | | | |
| | | | 18 | | | | | | | | | | | |
| | | | 19 | | | | | | | | | | | |
| | | | 20 | | | | | | | | | | | |

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

Signature M. [illegible] Firm GEI Consultants, Inc. - 3159 Voyager Drive Green Bay, WI 54311 920-455-8200

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

**SOIL BORING LOG INFORMATION SUPPLEMENT**
Form 4400-122A

Boring Number MW-7 Use only as an attachment to Form 4400-122.

| 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 |
| | | | 21 | Limestone bedrock | | | | | | | | | | |
| | | | 22 | | | | | | | | | | | |
| | | | 23 | | | | | | | | | | | |
| | | | 24 | | | | | | | | | | | |
| | | | 25 | | | | | | | | | | | |
| | | | 26 | | | | | | | | | | | |
| | | | | End of Boring<br>Boring advanced from 0 to 13.5 feet with hollow-stem auger<br>Boring advanced from 13.5 to 26.5 feet with rock bit and wash water<br>Installed 2-inch ID PVC mointoring well at 25.0 feet below ground surface with protector pipe | | | | | | | | | | |

State of Wisconsin
Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

| Facility/Project Name | License/Permit/Monitoring Number | Boring Number |
|---|---|---|
| D&G Mobil GW Assessment | | MW-8 |

| Boring Drilled By: Name of crew chief (first, last) and Firm | Date Drilling Started | Date Drilling Completed | Drilling Method |
|---|---|---|---|
| John Carlson<br>Subsurface Explorations Services, LLC | 6/25/2019 | 6/25/2019 | hollow stem auger |

| WI Unique Well No. | DNR Well ID No. | Common Well Name | Final Static Water Level | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| VS946 | | MW-8 | Feet | 709.1 Feet MSL | 6.0 inches |

Local Grid Origin ☒ (estimated: ☐ ) or Boring Location ☐
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 14, T 30 N, R 20
MSL
Lat ° ' "
Long ° ' "
Local Grid Location
137018 Feet ☒ N ☐ S
698399 Feet ☒ E ☐ W

| Facility ID | County | County Code | Civil Town/City/ or Village |
|---|---|---|---|
| | Marinette | 38 | Coleman |

| 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 | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 222 | | 2<br>4<br>6<br>8<br>10<br>12<br>14<br>16<br>18 | See Boring Log PZ-8 for description of soils | | | | | | | | | | |
| | | | | End of Boring<br>Boring advanced from 0 to 18.5 feet with power auger<br>Installed 2-inch ID PVC mointoring well at 18.0 feet below ground surface with protector pipe | | | | | | | | | | |

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

Signature [signature] Firm GEI Consultants, Inc. - 3159 Voyager Drive Green Bay, WI 54311 920-455-8200

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

| Facility/Project Name | License/Permit/Monitoring Number | Boring Number |
|---|---|---|
| D&G Mobil GW Assessment | | MW-8A |

| Boring Drilled By: Name of crew chief (first, last) and Firm | Date Drilling Started | Date Drilling Completed | Drilling Method |
|---|---|---|---|
| John Carlson<br>Subsurface Explorations Services, LLC | 6/25/2019 | 6/25/2019 | hollow stem auger |

| WI Unique Well No. | DNR Well ID No. | Common Well Name | Final Static Water Level | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| VS945 | | MW-8A | Feet | 709.2 Feet MSL | 6.0 inches |

Local Grid Origin ☒ (estimated: ☐ ) or Boring Location ☐
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 14, T 30 N, R 20
MSL
Lat ° ' "
Long ° ' "
Local Grid Location
137016 Feet ☒ N ☐ S
698394 Feet ☒ E ☐ W

| Facility ID | County | County Code | Civil Town/City/ or Village |
|---|---|---|---|
| | Marinette | 38 | Coleman |

| 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 | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | See Boring Log PZ-8 for description of soils | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | |
| | | | 3 | | | | | | | | | | | |
| | | | 4 | | | | | | | | | | | |
| | | | 5 | | | | | | | | | | | |
| | | | 6 | | | | | | | | | | | |
| | | | 7 | | | | | | | | | | | |
| | | | 8 | | | | | | | | | | | |
| | | | 9 | | | | | | | | | | | |
| | | | 10 | | | | | | | | | | | |
| | | | 11 | | | | | | | | | | | |
| | | | 12 | | | | | | | | | | | |
| | | | 13 | | | | | | | | | | | |
| | | | 14 | | | | | | | | | | | |
| 1 SS | 12 12 | 16 56 | 15 | | | | | | | | | | | |
| | | | 16 | | | | | | | | | | | |
| | | | 17 | | | | | | | | | | | |
| | | | 18 | | | | | | | | | | | |
| | | | 19 | | | | | | | | | | | |
| | | | 20 | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
| | GEI Consultants, Inc. - 3159 Voyager Drive<br>Green Bay, WI 54311 920-455-8200 |

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 be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

# SOIL BORING LOG INFORMATION SUPPLEMENT

Form 4400-122A

Boring Number MW-8A Use only as an attachment to Form 4400-122.

| 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 |
| | | | 21 | See Boring Log PZ-8 for description of soils | | | | | | | | | | |
| | | | 22 | | | | | | | | | | | |
| | | | 23 | | | | | | | | | | | |
| | | | 24 | | | | | | | | | | | |
| | | | 25 | | | | | | | | | | | |
| | | | 26 | | | | | | | | | | | |
| | | | 27 | End of Boring<br>Boring advanced from 0 to 16.2 feet with power auger<br>Boring advanced from 16.2 to 27.0 feet using rock bit and wash water<br>Installed 2-inch ID PVC mointoring well at 25.0 feet below ground surface with protector pipe | | | | | | | | | | |

State of Wisconsin
Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

| Facility/Project Name | License/Permit/Monitoring Number | Boring Number |
|---|---|---|
| D&G Mobil GW Assessment | | MW-9 |

| Boring Drilled By: Name of crew chief (first, last) and Firm | Date Drilling Started | Date Drilling Completed | Drilling Method |
|---|---|---|---|
| John Carlson<br>Subsurface Explorations Services, LLC | 6/28/2019 | 7/1/2019 | hollow stem auger |

| WI Unique Well No. | DNR Well ID No. | Common Well Name | Final Static Water Level | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| WA640 | | MW-9 | Feet | 708.5 Feet MSL | 6.0 inches |

Local Grid Origin ☒ (estimated: ☐ ) or Boring Location ☐
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 14, T 30 N, R 20
MSL
Lat ° ' "
Long ° ' "
Local Grid Location
136929 Feet ☒ N ☐ S 698528 Feet ☒ E ☐ W

| Facility ID | County | County Code | Civil Town/City/ or Village |
|---|---|---|---|
| | Marinette | 38 | Coleman |

| 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 | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 AU | 36 | | 1 | Bark brown sandy topsoil - trace gravel - trace organics (topsoil) | | | | | | | | | | |
| 2 AU | 36 | | 3 | Brown fine sand - trace silt - trace fine gravel (SP) | | | | | | | | | | |
| 3 AU | 36 | | 6 | | | | | | | | | | | |
| 4 AU | 36 | | 9 | | | | | | | | | | | |
| 5 AU | 36 | | 12 | | | | | | | | | | | |
| | | | 15 | Auger refusal at 15.5 feet | | | | | | | | | | |
| | | | 15 | Limestone bedrock | | | | | | | | | | |
| | | | 16 | | | | | | | | | | | |
| | | | 17 | | | | | | | | | | | |
| | | | 18 | | | | | | | | | | | |
| | | | 19 | | | | | | | | | | | |
| | | | 20 | | | | | | | | | | | |

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

Signature [signature] Firm GEI Consultants, Inc. - 3159 Voyager Drive
Green Bay, WI 54311 920-455-8200

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State of Wisconsin
Department of Natural Resources

**SOIL BORING LOG INFORMATION SUPPLEMENT**
Form 4400-122A

Boring Number MW-9 Use only as an attachment to Form 4400-122.

| 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 |
| | | | 21<br>22<br>23<br>24<br>25 | Limestone bedrock | | | | | | | | | | |
| | | | | End of Boring<br>Boring advanced from 0 to 15.5 feet with power auger<br>Boring advanced from 15.5 to 25.0 feet using rock bit and wash water<br>Installed 2-inch ID PVC mointoring well at 25.0 feet below ground surface with protector pipe | | | | | | | | | | |

State of Wisconsin
Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

| Facility/Project Name | License/Permit/Monitoring Number | Boring Number |
|---|---|---|
| D&G Mobil GW Assessment | | PZ-8 |

| Boring Drilled By: Name of crew chief (first, last) and Firm | Date Drilling Started | Date Drilling Completed | Drilling Method |
|---|---|---|---|
| John Carlson<br>Subsurface Explorations Services, LLC | 6/24/2019 | 6/24/2019 | hollow stem auger |

| WI Unique Well No. | DNR Well ID No. | Common Well Name | Final Static Water Level | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| WA641 | | PZ-8 | Feet | 709.1 Feet MSL | 6.0 inches |

Local Grid Origin ☒ (estimated: ☐ ) or Boring Location ☐ — MSL
State Plane N, E S/C/N
Lat ° ' "
Long ° ' "
SW 1/4 of SW 1/4 of Section 14, T 30 N, R 20
Local Grid Location: 137013 Feet ☒ N ☐ S; 698398 Feet ☒ E ☐ W

| Facility ID | County | County Code | Civil Town/City/ or Village |
|---|---|---|---|
| | Marinette | 38 | Coleman |

| Sample Number and Type | 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 | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 SS | 24 / 18 | 10 9 6 8 | 1 | Light brown fine sand - trace clay - trace to some gravel - becomes coarser between 8.5 and 11.0 feet - moist - medium dense to dense (SP) | | | | 0.0 | | | | | | |
| 2 SS | 24 / 18 | 8 10 12 11 | 2 3 4 | | | | | 0.0 | | | | | | |
| 3 SS | 24 / 21.6 | 12 14 22 25 | 5 6 7 | | | | | 0.0 | | | | | | |
| 4 SS | 24 | 14 15 18 24 | 8 9 | | | | | 0.0 | | | | | | |
| 5 SS | 12 / 12 | 28 54 | 10 11 | | | | | 0.0 | | | | | | |
| | | | 12 13 14 15 | Light brown fine sand with cobbles and boulders (SP) | | | | | | | | | | |
| | | | 16 | Auger refusal at 16.5 feet | | | | | | | | | | |
| | | | 17 18 19 20 | Limestone bedrock | | | | | | | | | | |

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

Signature [signature] Firm GEI Consultants, Inc. - 3159 Voyager Drive
Green Bay, WI 54311 920-455-8200

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State of Wisconsin
Department of Natural Resources

**SOIL BORING LOG INFORMATION SUPPLEMENT**
Form 4400-122A

Boring Number PZ-8 Use only as an attachment to Form 4400-122.

| Sample: Number and Type | Sample: 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 | Soil Properties: Compressive Strength | Soil Properties: Moisture Content | Soil Properties: Liquid Limit | Soil Properties: Plasticity Index | Soil Properties: P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 21 | Limestone bedrock | | | | | | | | | | |
| | | | 22 | | | | | | | | | | | |
| | | | 23 | | | | | | | | | | | |
| | | | 24 | | | | | | | | | | | |
| | | | 25 | | | | | | | | | | | |
| | | | 26 | | | | | | | | | | | |
| | | | 27 | | | | | | | | | | | |
| | | | 28 | | | | | | | | | | | |
| | | | 29 | | | | | | | | | | | |
| | | | 30 | | | | | | | | | | | |
| | | | 31 | | | | | | | | | | | |
| | | | 32 | | | | | | | | | | | |
| | | | 33 | | | | | | | | | | | |
| | | | 34 | | | | | | | | | | | |
| | | | 35 | | | | | | | | | | | |
| | | | 36 | | | | | | | | | | | |
| | | | 37 | | | | | | | | | | | |
| | | | 38 | | | | | | | | | | | |
| | | | 39 | | | | | | | | | | | |
| | | | 40 | | | | | | | | | | | |
| | | | 41 | | | | | | | | | | | |
| | | | 42 | | | | | | | | | | | |
| | | | 43 | | | | | | | | | | | |
| | | | 44 | End of Boring<br>Boring advanced from 0 to 16.5 feet with power auger<br>Boring advanced from 16.5 to 44.0 feet using rock bit and wash water<br>Installed 2-inch ID PVC mointoring well at 38.0 feet below ground surface with protector pipe | | | | | | | | | | |

State of Wisconsin
Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

| Facility/Project Name | License/Permit/Monitoring Number | Boring Number |
|---|---|---|
| D&G Mobil GW Assessment | | SB-4A |

| Boring Drilled By: Name of crew chief (first, last) and Firm | Date Drilling Started | Date Drilling Completed | Drilling Method |
|---|---|---|---|
| John Carlson<br>Subsurface Explorations Services, LLC | 6/26/2019 | 6/26/2019 | hollow stem auger |

| WI Unique Well No. | DNR Well ID No. | Common Well Name | Final Static Water Level | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| | | SB-4A | Feet | Feet MSL | 6.0 inches |

Local Grid Origin ☒ (estimated: ☐ ) or Boring Location ☐ — MSL
State Plane N, E S/C/N — Lat ° ' "
SW 1/4 of SW 1/4 of Section 14, T 30 N, R 20 — Long ° ' "
Local Grid Location: Feet ☐ N ☐ S Feet ☐ E ☐ W

| Facility ID | County | County Code | Civil Town/City/ or Village |
|---|---|---|---|
| | Marinette | 38 | Coleman |

| 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 | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1 SPT | 24 18 | 3 4 3 2 | 1 | Dark brown organic sand, trace gravel, some roots (topsoil) | | | | 0.0 | | | | | | |
| | | | 2 | Brown fine sand, trace clay, some gravel (SP) | | | | | | | | | | |
| S-2 SPT | 24 18 | 2 1 1 1 | 3 | Brown fine sand, trace roots, trace clay, trace gravel (SP) | | | | 0.0 | | | | | | |
| | | | 4 | End of Boring<br>Boring advanced from 0 to 4.0 feet using hollow-stem auger<br>Boring backfilled with granular bentonite | | | | | | | | | | |

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

Signature [signature] Firm GEI Consultants, Inc. - 3159 Voyager Drive
Green Bay, WI 54311 920-455-8200

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State of Wisconsin
Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

| Facility/Project Name | License/Permit/Monitoring Number | Boring Number |
|---|---|---|
| D&G Mobil GW Assessment | | SB-5 |

| Boring Drilled By: Name of crew chief (first, last) and Firm | Date Drilling Started | Date Drilling Completed | Drilling Method |
|---|---|---|---|
| John Carlson<br>Subsurface Explorations Services, LLC | 6/26/2019 | 6/26/2019 | hollow stem auger |

| WI Unique Well No. | DNR Well ID No. | Common Well Name | Final Static Water Level | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| | | SB-5 | Feet | Feet MSL | 6.0 inches |

Local Grid Origin ☒ (estimated: ☐ ) or Boring Location ☐ | MSL | Local Grid Location
State Plane N, E S/C/N | Lat ° ' " | Feet ☐ N ☐ S Feet ☐ E ☐ W
SW 1/4 of SW 1/4 of Section 14, T 30 N, R 20 | Long ° ' "

| Facility ID | County | County Code | Civil Town/City/ or Village |
|---|---|---|---|
| | Marinette | 38 | Coleman |

| 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 | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1 SPT | 24 14.4 | 4 5 4 3 | 1 | Dark brown sandy clay, trace organics, some roots (SP) | | | | 0.0 | | | | | | |
| | | | 2 | Brown fine sand, trace clay, some gravel (SP) | | | | | | | | | | |
| S-2 SPT | 24 12 | 2 2 6 12 | 3 | Brown fine sand, trace gravel, trace clay (SP) | | | | 0.0 | | | | | | |
| | | | 4 | | | | | | | | | | | |
| | | | 5 | End of Boring<br>Boring advanced from 0 to 4.0 feet using hollow-stem auger<br>Boring backfilled with granular bentonite | | | | | | | | | | |

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

Signature M. Zien | Firm GEI Consultants, Inc. - 3159 Voyager Drive Green Bay, WI 54311 920-455-8200

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State of Wisconsin
Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

| Facility/Project Name | License/Permit/Monitoring Number | Boring Number |
|---|---|---|
| D&G Mobil GW Assessment | | SB-6 |

| Boring Drilled By: Name of crew chief (first, last) and Firm | Date Drilling Started | Date Drilling Completed | Drilling Method |
|---|---|---|---|
| John Carlson<br>Subsurface Explorations Services, LLC | 6/26/2019 | 6/26/2019 | hollow stem auger |

| WI Unique Well No. | DNR Well ID No. | Common Well Name | Final Static Water Level | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| | | SB-6 | Feet | Feet MSL | 6.0 inches |

Local Grid Origin ☒ (estimated: ☐ ) or Boring Location ☐
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 14, T 30 N, R 20
MSL Lat ° ' " Long ° ' "
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

| Facility ID | County | County Code | Civil Town/City/ or Village |
|---|---|---|---|
| | Marinette | 38 | Coleman |

| 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 | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1 SPT | 24 12 | | 1 | Asphalt and gravel<br>Dark brown fine sand with clay - some gravel (SP) | | | | 0.0 | | | | | | |
| S-2 SPT | 24 14.4 | | 2<br>3<br>4 | Reddish brown fine sand with clay - some gravel (SP) | | | | 0.0 | | | | | | |
| | | | | End of Boring<br>Boring advanced from 0 to 4.0 feet using hollow-stem auger<br>Boring backfilled with granular bentonite | | | | | | | | | | |

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

Signature [signature] Firm GEI Consultants, Inc. - 3159 Voyager Drive Green Bay, WI 54311 920-455-8200

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State of Wisconsin
Department of Natural Resources

# SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

| Facility/Project Name | License/Permit/Monitoring Number | Boring Number |
|---|---|---|
| D&G Mobil GW Assessment | | SB-7 |

| Boring Drilled By: Name of crew chief (first, last) and Firm | Date Drilling Started | Date Drilling Completed | Drilling Method |
|---|---|---|---|
| John Carlson<br>Subsurface Explorations Services, LLC | 6/26/2019 | 6/26/2019 | hollow stem auger |

| WI Unique Well No. | DNR Well ID No. | Common Well Name | Final Static Water Level | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| | | SB-7 | Feet | Feet MSL | 6.0 inches |

Local Grid Origin ☒ (estimated: ☐ ) or Boring Location ☐
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 14, T 30 N, R 20
MSL
Lat ° ' "
Long ° ' "
Local Grid Location
Feet ☐ N ☐ S Feet ☐ E ☐ W

| Facility ID | County | County Code | Civil Town/City/ or Village |
|---|---|---|---|
| | Marinette | 38 | Coleman |

| Sample Number and Type | 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 | Moisture Content | Liquid Limit | Plasticity Index | P 200 | RQD/ Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1 SPT | 24 / 18 | 4 6 9 8 | 1 | Dark brown organic sand - trace clay - some roots (topsoil)<br>Brown fine sand - trace clay - some gravel (SP) | | | | 0.0 | | | | | | |
| S-2 SPT | 24 / 18 | 7 12 8 5 | 2 3 4 | | | | | 0.0 | | | | | | |
| S-3 SPT | 24 / 18 | 4 4 5 5 | 5 | Moist around 5.0 feet | | | | 0.0 | | | | | | |
| S-4 SPT | 24 / 12 | 2 2 4 3 | 6 7 8 | | | | | 0.0 | | | | | | |
| S-5 SPT | 24 / 15.6 | 8 12 18 18 | 9 10 | | | | | 0.0 | | | | | | |
| S-6 SPT | 24 / 21.6 | 8 30 47 50 | 11 12 | Wet around 10.0 feet<br>Rock chips at 11.0 feet<br>Becomes denser from 11.0 to 12.0 feet | | | | 0.0 | | | | | | |
| S-7 SPT | 24 / 16.8 | 18 30 50/0.4' | 13 14 | | | | | 0.0 | | | | | | |
| S-8 SPT | 21.6 | 67 55/0.4' | 15 | Layer of coarse black sand at 14.5 feet | | | | 0.0 | | | | | | |
| | | | | End of Boring<br>Bedrock encountered at 15.8 feet<br>Boring advanced from 0 to 15.8 feet using hollow-stem auger<br>Boring backfilled with granular bentonite | | | | | | | | | | |

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

Signature [signature] Firm GEI Consultants, Inc. - 3159 Voyager Drive Green Bay, WI 54311 920-455-8200

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State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

# MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

| | | |
|---|---|---|
| Facility/Project Name: D&G Mobil GW Assessment | Local Grid Location of Well: 136951 ft. ☒ N. ☐ S. 698204 ft. ☒ E. ☐ W. | Well Name: MW-7 |
| Facility License, Permit or Monitoring No. | Local Grid Origin ☒ (estimated: ☐ ) or Well Location ☐ Lat. ° ' " Long. ° ' " or | Wis. Unique Well No.: VS947 / DNR Well Number: |
| Facility ID | St. Plane ft. N, ft. E. S/C/N | Date Well Installed: 06/27/2019 |
| Type of Well: 11mw | Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 14, T. 30 N, R. 20 ☐ E ☐ W | Well Installed By: (Person's Name and Firm): John Carlson / Subsurface Exploration Services, LLC |
| Distance from Waste/Source ft. / Enf. Stds. Apply ☐ | Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known | Gov. Lot Number |

A. Protective pipe, top elevation 712.92 ft. MSL
B. Well casing, top elevation 712.51 ft. MSL
C. Land surface elevation 712.8 ft. MSL
D. Surface seal, bottom 0.0 ft. MSL or 712.8 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis attached? ☐ Yes ☒ No

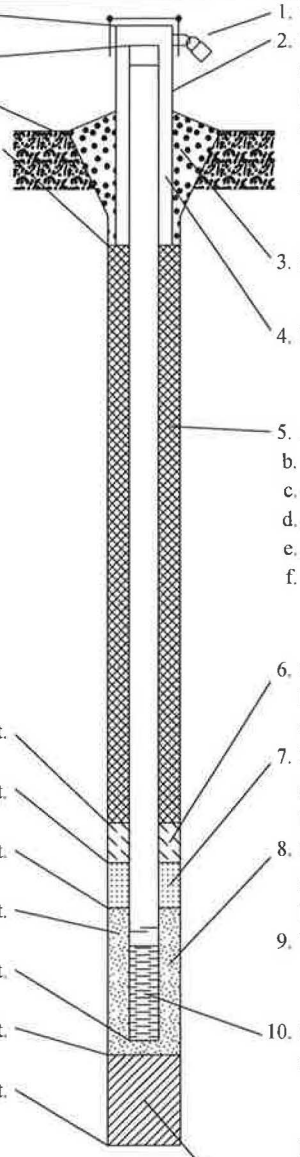
14. Drilling method used: Rotary ☒ 50 / Hollow Stem Auger ☐ 41 / ____ Other ☐ __

15. Drilling fluid used: Water ☒ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
Subsurface Exploration Services, LLC Well

E. Bentonite seal, top 711.3 ft. MSL or 1.5 ft.
F. Fine sand, top 701.3 ft. MSL or 11.5 ft.
G. Filter pack, top 700.0 ft. MSL or 12.8 ft.
H. Screen joint, top 697.8 ft. MSL or 15.0 ft.
I. Well bottom 687.8 ft. MSL or 25.0 ft.
J. Filter pack, bottom 687.8 ft. MSL or 25.0 ft.
K. Borehole, bottom 686.3 ft. MSL or 26.5 ft.
L. Borehole, diameter 6.0 in.
M. O.D. well casing 2.00 in.
N. I.D. well casing 1.85 in.



1. Cap and lock? ☐ Yes ☒ No
2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 04 / ____ Other ☒ __
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Well Manhole
3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / ____ Other ☐ __
4. Material between well casing and protective pipe: Bentonite ☒ 30 / ____ Other ☐ __
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight ... Bentonite slurry ☐ 31
d. ____ % Bentonite ... Bentonite-cement grout ☐ 50
e. ____ $Ft^3$ volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. ____ Other ☐ __
7. Fine sand material: Manufacturer, product name & mesh size
a. Badger
b. Volume added 0.7 $ft^3$
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint
b. Volume added 12.2 $ft^3$
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / ____ Other ☐ __
10. Screen material: PVC
a. Screen Type: Factory cut ☒ 11 / Continuous slot ☐ 01 / ____ Other ☐ __
b. Manufacturer ____
c. Slot size: 0.100 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 14 / ____ Other ☐ __

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

Signature: [signature] Firm: GEI Consultants, Inc. 3159 Voyager Dr., Green Bay, WI 54311 Tel: 920-455-8200 Fax: 920-455-8225

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

# MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

| | | |
|---|---|---|
| Facility/Project Name: D&G Mobil GW Assessment | Local Grid Location of Well: 137018 ft. ☒ N. ☐ S. 698399 ft. ☒ E. ☐ W. | Well Name: MW-8 |
| Facility License, Permit or Monitoring No. | Local Grid Origin ☒ (estimated: ☐ ) or Well Location ☐ Lat. ° ' " Long. ° ' " or | Wis. Unique Well No.: VS946 / DNR Well Number: |
| Facility ID | St. Plane ft. N, ft. E. S/C/N | Date Well Installed: 06/25/2019 |
| Type of Well: 11mw | Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 14, T. 30 N, R. 20 ☐ E ☐ W | Well Installed By: (Person's Name and Firm): John Carlson, Subsurface Exploration Services, LLC |
| Distance from Waste/Source ft. / Enf. Stds. Apply ☐ | Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known | Gov. Lot Number |

A. Protective pipe, top elevation 709.00 ft. MSL

B. Well casing, top elevation 708.71 ft. MSL

C. Land surface elevation 709.1 ft. MSL

D. Surface seal, bottom 0.0 ft. MSL or 709.1 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0; Hollow Stem Auger ☒ 4 1; ____ Other ☐ _ _

15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☐ 0 3 None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required):
Subsurface Exploration Services, LLC Well

E. Bentonite seal, top 707.6 ft. MSL or 1.5 ft.

F. Fine sand, top 704.1 ft. MSL or 5.0 ft.

G. Filter pack, top 702.9 ft. MSL or 6.2 ft.

H. Screen joint, top 701.1 ft. MSL or 8.0 ft.

I. Well bottom 691.1 ft. MSL or 18.0 ft.

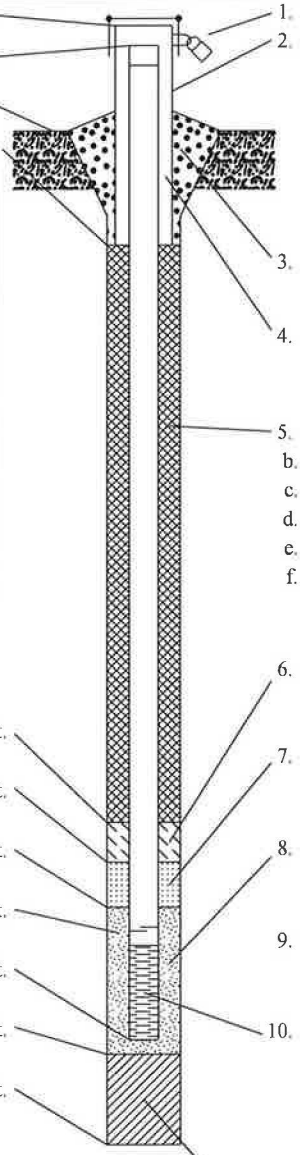
J. Filter pack, bottom 690.6 ft. MSL or 18.5 ft.

K. Borehole, bottom 690.6 ft. MSL or 18.5 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.00 in.

N. I.D. well casing 1.85 in.



1. Cap and lock? ☐ Yes ☒ No
2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: ____ Steel ☐ 0 4 Other ☒ _ _
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Well Manhole
3. Surface seal: Bentonite ☒ 3 0 Concrete ☐ 0 1 ____ Other ☐ _ _
4. Material between well casing and protective pipe: Bentonite ☒ 3 0 ____ Other ☐ _ _
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3 3
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 3 1
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 5 0
e. ____ $Ft^3$ volume added for any of the above
f. How installed: Tremie ☐ 0 1 Tremie pumped ☐ 0 2 Gravity ☒ 0 8
6. Bentonite seal: a. Bentonite granules ☐ 3 3
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2
c. ____ Other ☐ _ _
7. Fine sand material: Manufacturer, product name & mesh size
a. Badger _ _
b. Volume added 0.8 $ft^3$
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint _ _
b. Volume added 11.8 $ft^3$
9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 Flush threaded PVC schedule 80 ☐ 2 4 ____ Other ☐ _ _
10. Screen material: PVC _ _
a. Screen Type: Factory cut ☒ 1 1 Continuous slot ☐ 0 1 ____ Other ☐ _ _
b. Manufacturer ____
c. Slot size: 0.100 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 1 4 ____ Other ☐ _ _

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

Signature: [signature] Firm: GEI Consultants, Inc. 3159 Voyager Dr., Green Bay, WI 54311 Tel: 920-455-8200 Fax: 920-455-8225

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

**MONITORING WELL CONSTRUCTION**
Form 4400-113A Rev. 7-98

| | | |
|---|---|---|
| Facility/Project Name: D&G Mobil GW Assessment | Local Grid Location of Well: 137016 ft. ☒ N. ☐ S. 698394 ft. ☒ E. ☐ W. | Well Name: MW-8A |
| Facility License, Permit or Monitoring No. | Local Grid Origin ☒ (estimated: ☐ ) or Well Location ☐ Lat. ° ' " Long. ° ' " or | Wis. Unique Well No.: VS945 / DNR Well Number: |
| Facility ID | St. Plane ft. N, ft. E. S/C/N | Date Well Installed: 06/25/2019 |
| Type of Well: 11mw | Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 14, T. 30 N, R. 20 ☐ E ☐ W | Well Installed By: (Person's Name and Firm): John Carlson, Subsurface Exploration Services, LLC |
| Distance from Waste/Source ft. / Enf. Stds. Apply ☐ | Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known | Gov. Lot Number |

A. Protective pipe, top elevation 709.12 ft. MSL
B. Well casing, top elevation 708.81 ft. MSL
C. Land surface elevation 709.2 ft. MSL
D. Surface seal, bottom 0.0 ft. MSL or 709.2 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis attached? ☐ Yes ☒ No

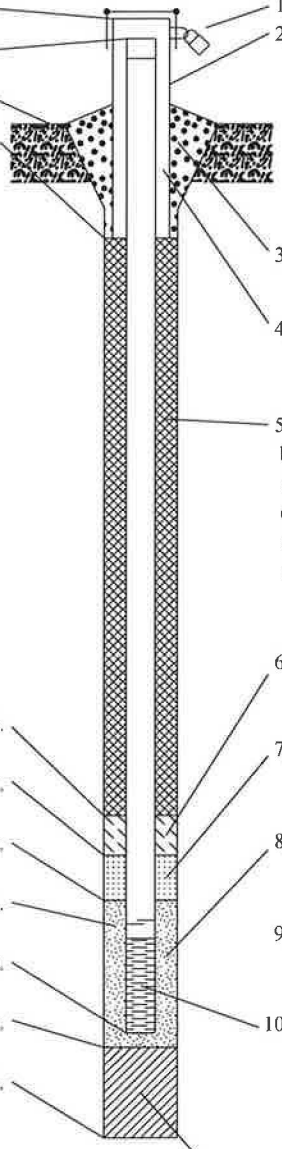
14. Drilling method used: Rotary ☒ 50 / Hollow Stem Auger ☐ 41 / Other ☐ _ _

15. Drilling fluid used: Water ☒ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe

17. Source of water (attach analysis, if required):
Subsurface Exploration Services, LLC Well

E. Bentonite seal, top 707.7 ft. MSL or 1.5 ft.
F. Fine sand, top 698.2 ft. MSL or 11.0 ft.
G. Filter pack, top 696.3 ft. MSL or 12.9 ft.
H. Screen joint, top 694.2 ft. MSL or 15.0 ft.
I. Well bottom 684.2 ft. MSL or 25.0 ft.
J. Filter pack, bottom 682.2 ft. MSL or 27.0 ft.
K. Borehole, bottom 682.2 ft. MSL or 27.0 ft.
L. Borehole, diameter 6.0 in.
M. O.D. well casing 2.00 in.
N. I.D. well casing 1.85 in.



1. Cap and lock? ☐ Yes ☒ No
2. Protective cover pipe:
a. Inside diameter: in.
b. Length: ft.
c. Material: Steel ☐ 04 / Other ☒ _ _
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Well Manhole
3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / Other ☐ _ _
4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _ _
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . Bentonite-cement grout ☐ 50
e. _____ $Ft^3$ volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. Other ☐ _ _
7. Fine sand material: Manufacturer, product name & mesh size
a. Badger
b. Volume added 1.3 $ft^3$
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint
b. Volume added 14.1 $ft^3$
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _ _
10. Screen material: PVC
a. Screen Type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _ _
b. Manufacturer
c. Slot size: 0.100 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _ _

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

Signature: [signature] Firm: GEI Consultants, Inc., 3159 Voyager Dr., Green Bay, WI 54311 Tel: 920-455-8200 Fax: 920-455-8225

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State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

# MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

| | | |
|---|---|---|
| Facility/Project Name: D&G Mobil GW Assessment | Local Grid Location of Well: 136929 ft. ☒ N. ☐ S. 698528 ft. ☒ E. ☐ W. | Well Name: MW-9 |
| Facility License, Permit or Monitoring No. | Local Grid Origin ☒ (estimated: ☐ ) or Well Location ☐ Lat. ° ' " Long. ° ' " or | Wis. Unique Well No.: WA640 / DNR Well Number: |
| Facility ID | St. Plane ft. N, ft. E. S/C/N | Date Well Installed: 07/01/2019 |
| Type of Well: 11mw | Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 14, T. 30 N, R. 20 ☐ E ☐ W | Well Installed By: (Person's Name and Firm): John Carlson / Subsurface Exploration Services, LLC |
| Distance from Waste/Source ft. / Enf. Stds. Apply ☐ | Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known | Gov. Lot Number |

A. Protective pipe, top elevation 708.54 ft. MSL
B. Well casing, top elevation 708.20 ft. MSL
C. Land surface elevation 708.5 ft. MSL
D. Surface seal, bottom 0.0 ft. MSL or 708.5 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis attached? ☐ Yes ☒ No

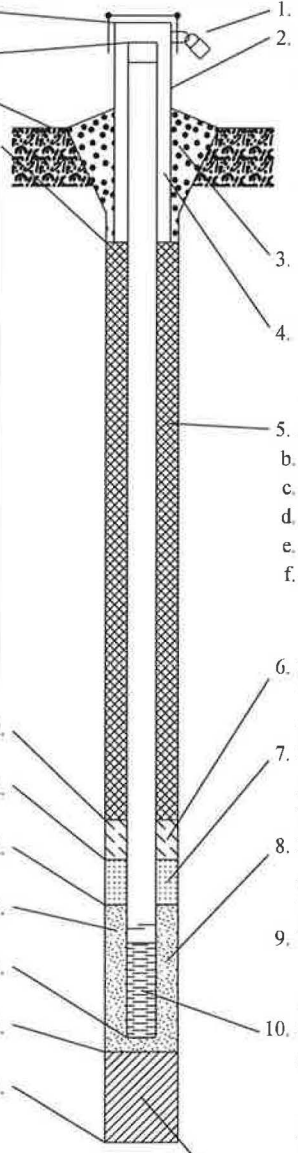
14. Drilling method used: Rotary ☒ 50 / Hollow Stem Auger ☐ 41 / Other ☐ __

15. Drilling fluid used: Water ☒ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe

17. Source of water (attach analysis, if required):
Subsurface Exploration Services, LLC Well

E. Bentonite seal, top 707.5 ft. MSL or 1.0 ft.
F. Fine sand, top 698.8 ft. MSL or 9.7 ft.
G. Filter pack, top 697.8 ft. MSL or 10.7 ft.
H. Screen joint, top 695.8 ft. MSL or 12.7 ft.
I. Well bottom 685.8 ft. MSL or 22.7 ft.
J. Filter pack, bottom 685.8 ft. MSL or 22.7 ft.
K. Borehole, bottom 683.5 ft. MSL or 25.0 ft.
L. Borehole, diameter 6.0 in.
M. O.D. well casing 2.00 in.
N. I.D. well casing 1.85 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8.0 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 04 / Other ☐ __
d. Additional protection? ☐ Yes ☒ No
If yes, describe:
3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / Other ☐ __
4. Material between well casing and protective pipe: Bentonite ☐ 30 / Sand / Other ☒ __
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 50
e. ____ $Ft^3$ volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. Other ☐ __
7. Fine sand material: Manufacturer, product name & mesh size
a. 40/70 Badger
b. Volume added ____ $ft^3$
8. Filter pack material: Manufacturer, product name & mesh size
a. #15 Red Flint
b. Volume added ____ $ft^3$
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ __
10. Screen material: ____
a. Screen Type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ __
b. Manufacturer
c. Slot size: 0.100 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 14 / Drill Cuttings / Other ☒ __

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

Signature: [signature] Firm: GEI Consultants, Inc. 3159 Voyager Dr., Green Bay, WI 54311 Tel: 920-455-8200 Fax: 920-455-8225

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State of Wisconsin
Department of Natural Resources

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

# MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

| | | |
|---|---|---|
| Facility/Project Name: D&G Mobil GW Assessment | Local Grid Location of Well: 137013 ft. ☒ N. ☐ S. 698398 ft. ☒ E. ☐ W. | Well Name: PZ-8 |
| Facility License, Permit or Monitoring No. | Local Grid Origin ☒ (estimated: ☐ ) or Well Location ☐ Lat. ° ' " Long. ° ' " or | Wis. Unique Well No.: WA641 / DNR Well Number: |
| Facility ID | St. Plane ft. N, ft. E. S/C/N | Date Well Installed: 06/24/2019 |
| Type of Well: 12pz | Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 14, T. 30 N, R. 20 ☐ E ☐ W | Well Installed By: (Person's Name and Firm): John Carlson; Subsurface Exploration Services, LLC |
| Distance from Waste/Source ft. / Enf. Stds. Apply ☐ | Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known | Gov. Lot Number |

A. Protective pipe, top elevation 709.16 ft. MSL

B. Well casing, top elevation 708.70 ft. MSL

C. Land surface elevation 709.1 ft. MSL

D. Surface seal, bottom 0.0 ft. MSL or 709.1 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis attached? ☐ Yes ☐ No

14. Drilling method used: Rotary ☒ 50 / Hollow Stem Auger ☐ 41 / Other ☐ _ _

15. Drilling fluid used: Water ☒ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe

17. Source of water (attach analysis, if required):
Subsurface Exploration Services, LLC Well

E. Bentonite seal, top 707.6 ft. MSL or 1.5 ft.

F. Fine sand, top 679.4 ft. MSL or 29.7 ft.

G. Filter pack, top 678.2 ft. MSL or 30.9 ft.

H. Screen joint, top 676.1 ft. MSL or 33.0 ft.

I. Well bottom 671.1 ft. MSL or 38.0 ft.

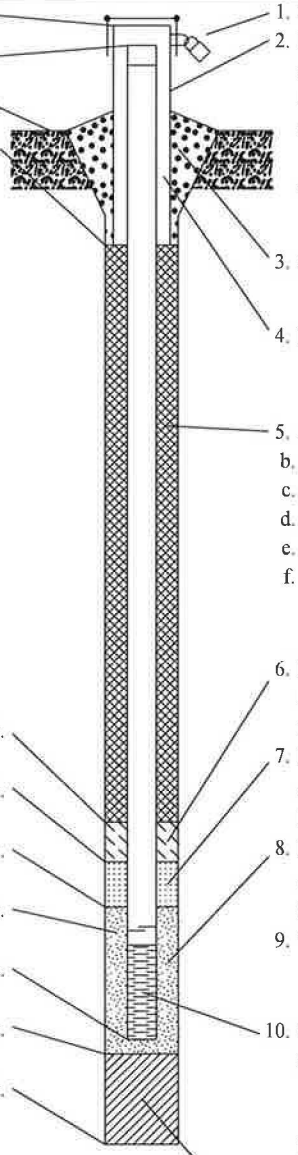
J. Filter pack, bottom 671.1 ft. MSL or 38.0 ft.

K. Borehole, bottom 665.1 ft. MSL or 44.0 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.00 in.

N. I.D. well casing 1.85 in.



1. Cap and lock? ☐ Yes ☒ No

2. Protective cover pipe:
a. Inside diameter: in.
b. Length: ft.
c. Material: Steel ☐ 04 / Other ☒ _ _
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Well Manhole

3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / Other ☐ _ _

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _ _

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . Bentonite-cement grout ☐ 50
e. _____ $Ft^3$ volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. Other ☐ _ _

7. Fine sand material: Manufacturer, product name & mesh size
a. Badger
b. Volume added 0.8 $ft^3$

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint
b. Volume added 0.1 $ft^3$

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _ _

10. Screen material: PVC
a. Screen Type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _ _
b. Manufacturer
c. Slot size: 0.100 in.
d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _ _

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

Signature | Firm: GEI Consultants, Inc., 3159 Voyager Dr., Green Bay, WI 54311 | Tel: 920-455-8200 Fax: 920-455-8225

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State of Wisconsin
Department of Natural Resources

# MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

| Facility/Project Name | County | Well Name |
|---|---|---|
| D&G Mobil GW Assessment | Marinette | MW-7 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well Number |
|---|---|---|---|
| . | 38 | VS947 | |

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

| | | |
|---|---|---|
| surged with bailer and bailed | ☐ | 41 |
| surged with bailer and pumped | ☐ | 61 |
| surged with block and bailed | ☐ | 42 |
| surged with block and pumped | ☐ | 62 |
| surged with block, bailed, and pumped | ☐ | 70 |
| compressed air | ☐ | 20 |
| bailed only | ☐ | 10 |
| pumped only | ☒ | 51 |
| pumped slowly | ☐ | 50 |
| other _____ | ☐ | __ |

3. Time spent developing well 88 min.

4. Depth of well (from top of well casing) 25.0 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 8.5 gal.

7. Volume of water removed from well 150.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

| | | Before Development | After Development |
|---|---|---|---|
| 11. Depth to Water (from top of well casing) | a. | 11.80 ft. | 11.30 ft. |
| Date | b. | 7/2/2019 | 7/2/2019 |
| Time | c. | ☒ a.m. 10:02 ☐ p.m. | ☒ a.m. 11:30 ☐ p.m. |
| 12. Sediment in well bottom | | 0.0 inches | 0.0 inches |
| 13. Water clarity | | Clear ☒ 10 Turbid ☐ 15 (Describe) | Clear ☒ 20 Turbid ☐ 25 (Describe) |

Fill in if drilling fluids were used and well is at solid waste facility:

| | | |
|---|---|---|
| 14. Total suspended solids | mg/l | mg/l |
| 15. COD | mg/l | mg/l |

16. Well developed by: Person's Name and Firm
Faith M. Zangl-Wiese
GEI Consultants, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: _____

Print Name: Faith M. Zangl-Wiese

Firm: GEI Consultants, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

# MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

| Facility/Project Name | County | Well Name |
|---|---|---|
| D&G Mobil GW Assessment | Marinette | MW-8 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well Number |
|---|---|---|---|
| . | 38 | VS946 | |

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

| | | |
|---|---|---|
| surged with bailer and bailed | ☐ | 4 1 |
| surged with bailer and pumped | ☐ | 6 1 |
| surged with block and bailed | ☐ | 4 2 |
| surged with block and pumped | ☐ | 6 2 |
| surged with block, bailed, and pumped | ☐ | 7 0 |
| compressed air | ☐ | 2 0 |
| bailed only | ☐ | 1 0 |
| pumped only | ☒ | 5 1 |
| pumped slowly | ☐ | 5 0 |
| other _____ | ☐ | – – |

3. Time spent developing well: 30 min.

4. Depth of well (from top of well casing): 15.0 ft.

5. Inside diameter of well: 2.00 in.

6. Volume of water in filter pack and well casing: 3.9 gal.

7. Volume of water removed from well: 60.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) a. | 8.59 ft. | 15.00 ft. |
| Date b. | 7/1/2019 | 7/1/2019 |
| Time c. | ☐ a.m. 03:00 ☒ p.m. | ☐ a.m. 03:30 ☒ p.m. |
| 12. Sediment in well bottom | 0.0 inches | 0.0 inches |
| 13. Water clarity | Clear ☒ 1 0 Turbid ☐ 1 5 (Describe) | Clear ☒ 2 0 Turbid ☐ 2 5 (Describe) |

Fill in if drilling fluids were used and well is at solid waste facility:

| | | |
|---|---|---|
| 14. Total suspended solids | mg/l | mg/l |
| 15. COD | mg/l | mg/l |

16. Well developed by: Person's Name and Firm
Faith M. Zangl-Wiese
GEI Consultants, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: [signature]

Print Name: Faith M. Zangl-Wiese

Firm: GEI Consultants, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

# MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

| Facility/Project Name | County | Well Name |
|---|---|---|
| D&G Mobil GW Assessment | Marinette | MW-8A |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well Number |
|---|---|---|---|
| . | 38 | VS945 | |

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method:

| | | |
|---|---|---|
| surged with bailer and bailed | ☐ | 41 |
| surged with bailer and pumped | ☐ | 61 |
| surged with block and bailed | ☐ | 42 |
| surged with block and pumped | ☐ | 62 |
| surged with block, bailed, and pumped | ☐ | 70 |
| compressed air | ☐ | 20 |
| bailed only | ☐ | 10 |
| pumped only | ☒ | 51 |
| pumped slowly | ☐ | 50 |
| other _____ | ☐ | __ |

3. Time spent developing well: 5 min.

4. Depth of well (from top of well casing): 18.5 ft.

5. Inside diameter of well: 2.00 in.

6. Volume of water in filter pack and well casing: 6.7 gal.

7. Volume of water removed from well: 8.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) a. | 7.39 ft. | 18.00 ft. |
| Date b. | 7/1/2019 | 7/1/2019 |
| Time c. | ☐ a.m. 03:30 ☒ p.m. | ☒ a.m. 03:35 ☐ p.m. |
| 12. Sediment in well bottom | 0.0 inches | 0.0 inches |
| 13. Water clarity | Clear ☐ 10 Turbid ☒ 15 (Describe) | Clear ☒ 20 Turbid ☐ 25 (Describe) |

Fill in if drilling fluids were used and well is at solid waste facility:

| | | |
|---|---|---|
| 14. Total suspended solids | mg/l | mg/l |
| 15. COD | mg/l | mg/l |

16. Well developed by: Person's Name and Firm
Faith M. Zangl-Wiese
GEI Consultants, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: _____

Print Name: Faith M. Zangl-Wiese

Firm: GEI Consultants, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

# MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

| Facility/Project Name | County | Well Name |
|---|---|---|
| D&G Mobil GW Assessment | Marinette | MW-9 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well Number |
|---|---|---|---|
| . | 38 | WA640 | |

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

| | | |
|---|---|---|
| surged with bailer and bailed | ☐ | 4 1 |
| surged with bailer and pumped | ☐ | 6 1 |
| surged with block and bailed | ☐ | 4 2 |
| surged with block and pumped | ☐ | 6 2 |
| surged with block, bailed, and pumped | ☐ | 7 0 |
| compressed air | ☐ | 2 0 |
| bailed only | ☐ | 1 0 |
| pumped only | ☒ | 5 1 |
| pumped slowly | ☐ | 5 0 |
| other _____ | ☐ | _ _ |

3. Time spent developing well: 100 min.

4. Depth of well (from top of well casing): 25.0 ft.

5. Inside diameter of well: 2.00 in.

6. Volume of water in filter pack and well casing: 10.0 gal.

7. Volume of water removed from well: 150.0 gal.

8. Volume of water added (if any): 0.0 gal.

9. Source of water added: _____

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

| | | Before Development | After Development |
|---|---|---|---|
| 11. Depth to Water (from top of well casing) | a. | 8.91 ft. | 16.00 ft. |
| Date | b. | 7/1/2019 | 7/1/2019 |
| Time | c. | ☐ a.m. 03:30 ☒ p.m. | ☐ a.m. 05:10 ☒ p.m. |
| 12. Sediment in well bottom | | 0.0 inches | 0.0 inches |
| 13. Water clarity | | Clear ☒ 1 0 Turbid ☐ 1 5 (Describe) | Clear ☒ 2 0 Turbid ☐ 2 5 (Describe) |

Fill in if drilling fluids were used and well is at solid waste facility:

| | | |
|---|---|---|
| 14. Total suspended solids | mg/l | mg/l |
| 15. COD | mg/l | mg/l |

16. Well developed by: Person's Name and Firm
Faith M. Zangl-Wiese
GEI Consultants, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: F M. Z

Print Name: Faith M. Zangl-Wiese

Firm: GEI Consultants, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

# MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

| Facility/Project Name | County | Well Name |
|---|---|---|
| D&G Mobil GW Assessment | Marinette | PZ-8 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well Number |
|---|---|---|---|
| . | 38 | WA641 | |

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

| | | |
|---|---|---|
| surged with bailer and bailed | ☐ | 4 1 |
| surged with bailer and pumped | ☐ | 6 1 |
| surged with block and bailed | ☐ | 4 2 |
| surged with block and pumped | ☐ | 6 2 |
| surged with block, bailed, and pumped | ☐ | 7 0 |
| compressed air | ☐ | 2 0 |
| bailed only | ☐ | 1 0 |
| pumped only | ☒ | 5 1 |
| pumped slowly | ☐ | 5 0 |
| other _____ | ☐ | _ _ |

3. Time spent developing well 127 min.

4. Depth of well (from top of well casing) 38.0 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 16.7 gal.

7. Volume of water removed from well 200.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

| | | Before Development | After Development |
|---|---|---|---|
| 11. Depth to Water (from top of well casing) | a. | 10.40 ft. | 18.89 ft. |
| Date | b. | 7/1/2019 | 7/1/2019 |
| Time | c. | ☐ a.m. 12:53 ☒ p.m. | ☐ a.m. 03:00 ☒ p.m. |
| 12. Sediment in well bottom | | 0.0 inches | 0.0 inches |
| 13. Water clarity | | Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) | Clear ☒ 2 0 Turbid ☐ 2 5 (Describe) |

Fill in if drilling fluids were used and well is at solid waste facility:

| | | |
|---|---|---|
| 14. Total suspended solids | mg/l | mg/l |
| 15. COD | mg/l | mg/l |

16. Well developed by: Person's Name and Firm
Faith M. Zangl-Wiese
GEI Consultants, Inc.

17. Additional comments on development:

Facility Address or Owner/Responsible Party Address

Name: _____

Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: F M. Zangl

Print Name: Faith M. Zangl-Wiese

Firm: GEI Consultants, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

**WELL/DRILLHOLE/BOREHOLE ABANDONMENT**
Form 3300-5 2/2000 Page 1 of 2

**Notice:** Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a 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 the instructions for more information.

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☒ Remediation/Redevelopment ☐ Other

## (1) GENERAL INFORMATION

WI Unique Well No. | DNR Well ID No. | County: Marinette

Common Well Name: SB-7 | Gov't Lot (if applicable):

Grid Location: SW 1/4 of SW 1/4 of Sec. 14 ; T. 30 N; R. 20 ☐ E ☐ W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☒ (estimated: ☐ ) or Well Location ☐

Lat ° ' " Long ° ' "

State Plane _____ ft. N. _____ ft. E. S C N Zone

Reason For Abandonment: Borehole Only | WI Unique Well No.:

## (2) FACILITY /OWNER INFORMATION

Facility Name: D&G Mobil GW Assessment

Facility ID | License/Permit/Monitoring No.

Street Address of Well: 125 CTH PP

City, Village, or Town: Coleman

Present Well Owner | Original Owner

Street Address or Route of Owner

City, State, Zip Code

## (3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 6/26/2019

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft) (From ground surface): 15.8
Casing Diameter (in.): N/A
Casing Depth (ft.): N/A
Lower Drillhole Diameter (in.): 4.0

Was Well Annular Space Grouted? ☐ Yes ☒ No ☐ Unknown
If Yes, To What Depth? _____ Feet
Depth to Water (Feet): 13.1

## (4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

| | | | |
|---|---|---|---|
| Pump & Piping Removed? | ☐ Yes | ☐ No | ☒ Not Applicable |
| Liner(s) Removed? | ☐ Yes | ☐ No | ☒ Not Applicable |
| Screen Removed? | ☐ Yes | ☐ No | ☒ Not Applicable |
| Casing Left in Place? | ☐ Yes | ☒ No | |
| Was Casing Cut Off Below Surface? | ☐ Yes | ☒ No | |
| Did Sealing Material Rise to Surface? | ☒ Yes | ☐ No | |
| Did Material Settle After 24 Hours? | ☐ Yes | ☒ No | |
| If Yes, Was Hole Retopped? | ☐ Yes | ☐ No | |

Required Method of Placing Sealing Material
☐ Conductor Pipe - Gravity ☐ Conductor Pipe - Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☒ Chipped Bentonite

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
☐ Granular Bentonite
☐ Bentonite-Cement Grout
☐ Bentonite - Sand Slurry

| (5) Sealing Material Used | From (Ft.) | To (Ft.) | Sacks Sealant | Mix Ratio or Mud Weight |
|---|---|---|---|---|
| 3/8 in. Bentonite Chips | Surface | 15.8 | 1 | |
| | | | | |
| | | | | |

(6) Comments

GEI Consultants, Inc. Project No. 1704398

(7) Name of Person or Firm Doing Sealing Work: Faith M. Zangl-Wiese | Date of Abandonment: 6/26/19

Signature of Person Doing Work: FMZ | Date Signed: 2/5/2020

Street or Route: 3159 Voyager Dr. | Telephone Number: (920) 471-4961

City, State, Zip Code: Green Bay, WI 54311

**FOR DNR OR COUNTY USE ONLY**

| Date Received | Noted By |
|---|---|
| | |

Comments

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 09, 2019

Roger Miller
GEI Consultants, Inc.
3159 Voyager Drive
Green Bay, WI 54311

RE: Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

Dear Roger Miller:
Enclosed are the analytical results for sample(s) received by the laboratory on June 26, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Faith Zangl-Wiese, GEI Consulatants, Inc

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## CERTIFICATIONS

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

**Green Bay Certification IDs**

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## SAMPLE SUMMARY

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **40190169001** | **SB-6 2'-4'** | Solid | 06/26/19 12:00 | 06/26/19 17:10 |
| **40190169002** | **SB-5 2'-4'** | Solid | 06/26/19 12:30 | 06/26/19 17:10 |
| **40190169003** | **SB-4A 2'-4'** | Solid | 06/26/19 13:00 | 06/26/19 17:10 |
| **40190169004** | **SB-7 S-1 2'-4'** | Solid | 06/26/19 13:25 | 06/26/19 17:10 |
| **40190169005** | **SB-7 S-2 10'-12'** | Solid | 06/26/19 14:15 | 06/26/19 17:10 |
| **40190169006** | **TRIP BLANK** | Solid | 06/26/19 00:00 | 06/26/19 17:10 |

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## SAMPLE ANALYTE COUNT

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **40190169001** | **SB-6 2'-4'** | EPA 8260 | MDS | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| **40190169002** | **SB-5 2'-4'** | EPA 8260 | MDS | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| **40190169003** | **SB-4A 2'-4'** | EPA 8260 | MDS | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| **40190169004** | **SB-7 S-1 2'-4'** | EPA 8260 | MDS | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| **40190169005** | **SB-7 S-2 10'-12'** | EPA 8260 | MDS | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| **40190169006** | **TRIP BLANK** | EPA 8260 | MDS | 64 | PASI-G |

**Pace Analytical Services, LLC**
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## SUMMARY OF DETECTION

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **40190169001** | **SB-6 2'-4'** | | | | | |
| ASTM D2974-87 | Percent Moisture | 7.2 | % | 0.10 | 07/08/19 17:18 | |
| **40190169002** | **SB-5 2'-4'** | | | | | |
| ASTM D2974-87 | Percent Moisture | 9.7 | % | 0.10 | 07/08/19 17:18 | |
| **40190169003** | **SB-4A 2'-4'** | | | | | |
| ASTM D2974-87 | Percent Moisture | 5.7 | % | 0.10 | 07/08/19 17:19 | |
| **40190169004** | **SB-7 S-1 2'-4'** | | | | | |
| ASTM D2974-87 | Percent Moisture | 8.0 | % | 0.10 | 07/08/19 17:19 | |
| **40190169005** | **SB-7 S-2 10'-12'** | | | | | |
| ASTM D2974-87 | Percent Moisture | 3.6 | % | 0.10 | 07/08/19 17:19 | |

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

**Sample: SB-6 2'-4'** **Lab ID: 40190169001** Collected: 06/26/19 12:00 Received: 06/26/19 17:10 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Med Level Normal List** | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | |
| Benzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 71-43-2 | W |
| Bromobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 108-86-1 | W |
| Bromochloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 74-97-5 | W |
| Bromodichloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 75-27-4 | W |
| Bromoform | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 75-25-2 | W |
| Bromomethane | **<69.9** | ug/kg | 250 | 69.9 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 74-83-9 | W |
| n-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 104-51-8 | W |
| sec-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 135-98-8 | W |
| tert-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 98-06-6 | W |
| Carbon tetrachloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 56-23-5 | W |
| Chlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 108-90-7 | W |
| Chloroethane | **<67.0** | ug/kg | 250 | 67.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 75-00-3 | W |
| Chloroform | **<46.4** | ug/kg | 250 | 46.4 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 67-66-3 | W |
| Chloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 74-87-3 | W |
| 2-Chlorotoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 95-49-8 | W |
| 4-Chlorotoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | **<91.2** | ug/kg | 250 | 91.2 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 96-12-8 | W |
| Dibromochloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 106-93-4 | W |
| Dibromomethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 74-95-3 | W |
| 1,2-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 95-50-1 | W |
| 1,3-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 541-73-1 | W |
| 1,4-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 106-46-7 | W |
| Dichlorodifluoromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 75-71-8 | W |
| 1,1-Dichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 75-34-3 | W |
| 1,2-Dichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 107-06-2 | W |
| 1,1-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 75-35-4 | W |
| cis-1,2-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 156-59-2 | W |
| trans-1,2-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 156-60-5 | W |
| 1,2-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 78-87-5 | W |
| 1,3-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 142-28-9 | W |
| 2,2-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 594-20-7 | W |
| 1,1-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 563-58-6 | W |
| cis-1,3-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 10061-02-6 | W |
| Diisopropyl ether | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 108-20-3 | W |
| Ethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 98-82-8 | W |
| p-Isopropyltoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 99-87-6 | W |
| Methylene Chloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 75-09-2 | W |
| Methyl-tert-butyl ether | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 1634-04-4 | W |
| Naphthalene | **<40.0** | ug/kg | 250 | 40.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 91-20-3 | W |
| n-Propylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 103-65-1 | W |
| Styrene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 100-42-5 | W |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

**Sample: SB-6 2'-4'** **Lab ID: 40190169001** Collected: 06/26/19 12:00 Received: 06/26/19 17:10 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Med Level Normal List** | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 79-34-5 | W |
| Tetrachloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 127-18-4 | W |
| Toluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | **<47.6** | ug/kg | 250 | 47.6 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 120-82-1 | W |
| 1,1,1-Trichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 71-55-6 | W |
| 1,1,2-Trichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 79-00-5 | W |
| Trichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 79-01-6 | W |
| Trichlorofluoromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 75-69-4 | W |
| 1,2,3-Trichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 108-67-8 | W |
| Vinyl chloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 75-01-4 | W |
| m&p-Xylene | **<50.0** | ug/kg | 120 | 50.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 179601-23-1 | W |
| o-Xylene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 95-47-6 | W |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 117 | % | 57-146 | | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 1868-53-7 | |
| Toluene-d8 (S) | 111 | % | 64-134 | | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 111 | % | 54-126 | | 1 | 06/28/19 10:30 | 07/02/19 18:08 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | **7.2** | % | 0.10 | 0.10 | 1 | | 07/08/19 17:18 | | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

**Sample: SB-5 2'-4'** **Lab ID: 40190169002** Collected: 06/26/19 12:30 Received: 06/26/19 17:10 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Med Level Normal List** | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | |
| Benzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 71-43-2 | W |
| Bromobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 108-86-1 | W |
| Bromochloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 74-97-5 | W |
| Bromodichloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 75-27-4 | W |
| Bromoform | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 75-25-2 | W |
| Bromomethane | **<69.9** | ug/kg | 250 | 69.9 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 74-83-9 | W |
| n-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 104-51-8 | W |
| sec-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 135-98-8 | W |
| tert-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 98-06-6 | W |
| Carbon tetrachloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 56-23-5 | W |
| Chlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 108-90-7 | W |
| Chloroethane | **<67.0** | ug/kg | 250 | 67.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 75-00-3 | W |
| Chloroform | **<46.4** | ug/kg | 250 | 46.4 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 67-66-3 | W |
| Chloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 74-87-3 | W |
| 2-Chlorotoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 95-49-8 | W |
| 4-Chlorotoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | **<91.2** | ug/kg | 250 | 91.2 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 96-12-8 | W |
| Dibromochloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 106-93-4 | W |
| Dibromomethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 74-95-3 | W |
| 1,2-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 95-50-1 | W |
| 1,3-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 541-73-1 | W |
| 1,4-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 106-46-7 | W |
| Dichlorodifluoromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 75-71-8 | W |
| 1,1-Dichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 75-34-3 | W |
| 1,2-Dichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 107-06-2 | W |
| 1,1-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 75-35-4 | W |
| cis-1,2-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 156-59-2 | W |
| trans-1,2-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 156-60-5 | W |
| 1,2-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 78-87-5 | W |
| 1,3-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 142-28-9 | W |
| 2,2-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 594-20-7 | W |
| 1,1-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 563-58-6 | W |
| cis-1,3-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 10061-02-6 | W |
| Diisopropyl ether | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 108-20-3 | W |
| Ethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 98-82-8 | W |
| p-Isopropyltoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 99-87-6 | W |
| Methylene Chloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 75-09-2 | W |
| Methyl-tert-butyl ether | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 1634-04-4 | W |
| Naphthalene | **<40.0** | ug/kg | 250 | 40.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 91-20-3 | W |
| n-Propylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 103-65-1 | W |
| Styrene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 100-42-5 | W |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

**Sample: SB-5 2'-4'** **Lab ID: 40190169002** Collected: 06/26/19 12:30 Received: 06/26/19 17:10 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Med Level Normal List** | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 79-34-5 | W |
| Tetrachloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 127-18-4 | W |
| Toluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | **<47.6** | ug/kg | 250 | 47.6 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 120-82-1 | W |
| 1,1,1-Trichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 71-55-6 | W |
| 1,1,2-Trichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 79-00-5 | W |
| Trichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 79-01-6 | W |
| Trichlorofluoromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 75-69-4 | W |
| 1,2,3-Trichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 108-67-8 | W |
| Vinyl chloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 75-01-4 | W |
| m&p-Xylene | **<50.0** | ug/kg | 120 | 50.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 179601-23-1 | W |
| o-Xylene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 95-47-6 | W |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 112 | % | 57-146 | | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 1868-53-7 | |
| Toluene-d8 (S) | 107 | % | 64-134 | | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 106 | % | 54-126 | | 1 | 06/28/19 10:30 | 07/02/19 18:31 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | **9.7** | % | 0.10 | 0.10 | 1 | | 07/08/19 17:18 | | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

**Sample: SB-4A 2'-4'** **Lab ID: 40190169003** Collected: 06/26/19 13:00 Received: 06/26/19 17:10 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Med Level Normal List** | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | |
| Benzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 71-43-2 | W |
| Bromobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 108-86-1 | W |
| Bromochloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 74-97-5 | W |
| Bromodichloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 75-27-4 | W |
| Bromoform | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 75-25-2 | W |
| Bromomethane | **<69.9** | ug/kg | 250 | 69.9 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 74-83-9 | W |
| n-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 104-51-8 | W |
| sec-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 135-98-8 | W |
| tert-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 98-06-6 | W |
| Carbon tetrachloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 56-23-5 | W |
| Chlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 108-90-7 | W |
| Chloroethane | **<67.0** | ug/kg | 250 | 67.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 75-00-3 | W |
| Chloroform | **<46.4** | ug/kg | 250 | 46.4 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 67-66-3 | W |
| Chloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 74-87-3 | W |
| 2-Chlorotoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 95-49-8 | W |
| 4-Chlorotoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | **<91.2** | ug/kg | 250 | 91.2 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 96-12-8 | W |
| Dibromochloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 106-93-4 | W |
| Dibromomethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 74-95-3 | W |
| 1,2-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 95-50-1 | W |
| 1,3-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 541-73-1 | W |
| 1,4-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 106-46-7 | W |
| Dichlorodifluoromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 75-71-8 | W |
| 1,1-Dichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 75-34-3 | W |
| 1,2-Dichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 107-06-2 | W |
| 1,1-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 75-35-4 | W |
| cis-1,2-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 156-59-2 | W |
| trans-1,2-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 156-60-5 | W |
| 1,2-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 78-87-5 | W |
| 1,3-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 142-28-9 | W |
| 2,2-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 594-20-7 | W |
| 1,1-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 563-58-6 | W |
| cis-1,3-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 10061-02-6 | W |
| Diisopropyl ether | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 108-20-3 | W |
| Ethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 98-82-8 | W |
| p-Isopropyltoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 99-87-6 | W |
| Methylene Chloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 75-09-2 | W |
| Methyl-tert-butyl ether | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 1634-04-4 | W |
| Naphthalene | **<40.0** | ug/kg | 250 | 40.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 91-20-3 | W |
| n-Propylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 103-65-1 | W |
| Styrene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 100-42-5 | W |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

**Sample: SB-4A 2'-4'** **Lab ID: 40190169003** Collected: 06/26/19 13:00 Received: 06/26/19 17:10 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Med Level Normal List** | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 79-34-5 | W |
| Tetrachloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 127-18-4 | W |
| Toluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | **<47.6** | ug/kg | 250 | 47.6 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 120-82-1 | W |
| 1,1,1-Trichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 71-55-6 | W |
| 1,1,2-Trichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 79-00-5 | W |
| Trichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 79-01-6 | W |
| Trichlorofluoromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 75-69-4 | W |
| 1,2,3-Trichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 108-67-8 | W |
| Vinyl chloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 75-01-4 | W |
| m&p-Xylene | **<50.0** | ug/kg | 120 | 50.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 179601-23-1 | W |
| o-Xylene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 95-47-6 | W |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 116 | % | 57-146 | | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 1868-53-7 | |
| Toluene-d8 (S) | 108 | % | 64-134 | | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 108 | % | 54-126 | | 1 | 06/28/19 10:30 | 07/02/19 18:54 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | **5.7** | % | 0.10 | 0.10 | 1 | | 07/08/19 17:19 | | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

**Sample: SB-7 S-1 2'-4'** **Lab ID: 40190169004** Collected: 06/26/19 13:25 Received: 06/26/19 17:10 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Med Level Normal List** | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | |
| Benzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 71-43-2 | W |
| Bromobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 108-86-1 | W |
| Bromochloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 74-97-5 | W |
| Bromodichloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 75-27-4 | W |
| Bromoform | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 75-25-2 | W |
| Bromomethane | **<69.9** | ug/kg | 250 | 69.9 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 74-83-9 | W |
| n-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 104-51-8 | W |
| sec-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 135-98-8 | W |
| tert-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 98-06-6 | W |
| Carbon tetrachloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 56-23-5 | W |
| Chlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 108-90-7 | W |
| Chloroethane | **<67.0** | ug/kg | 250 | 67.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 75-00-3 | W |
| Chloroform | **<46.4** | ug/kg | 250 | 46.4 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 67-66-3 | W |
| Chloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 74-87-3 | W |
| 2-Chlorotoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 95-49-8 | W |
| 4-Chlorotoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | **<91.2** | ug/kg | 250 | 91.2 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 96-12-8 | W |
| Dibromochloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 106-93-4 | W |
| Dibromomethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 74-95-3 | W |
| 1,2-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 95-50-1 | W |
| 1,3-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 541-73-1 | W |
| 1,4-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 106-46-7 | W |
| Dichlorodifluoromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 75-71-8 | W |
| 1,1-Dichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 75-34-3 | W |
| 1,2-Dichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 107-06-2 | W |
| 1,1-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 75-35-4 | W |
| cis-1,2-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 156-59-2 | W |
| trans-1,2-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 156-60-5 | W |
| 1,2-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 78-87-5 | W |
| 1,3-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 142-28-9 | W |
| 2,2-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 594-20-7 | W |
| 1,1-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 563-58-6 | W |
| cis-1,3-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 10061-02-6 | W |
| Diisopropyl ether | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 108-20-3 | W |
| Ethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 98-82-8 | W |
| p-Isopropyltoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 99-87-6 | W |
| Methylene Chloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 75-09-2 | W |
| Methyl-tert-butyl ether | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 1634-04-4 | W |
| Naphthalene | **<40.0** | ug/kg | 250 | 40.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 91-20-3 | W |
| n-Propylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 103-65-1 | W |
| Styrene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 100-42-5 | W |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

**Sample: SB-7 S-1 2'-4'** **Lab ID: 40190169004** Collected: 06/26/19 13:25 Received: 06/26/19 17:10 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Med Level Normal List** | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 79-34-5 | W |
| Tetrachloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 127-18-4 | W |
| Toluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | **<47.6** | ug/kg | 250 | 47.6 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 120-82-1 | W |
| 1,1,1-Trichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 71-55-6 | W |
| 1,1,2-Trichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 79-00-5 | W |
| Trichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 79-01-6 | W |
| Trichlorofluoromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 75-69-4 | W |
| 1,2,3-Trichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 108-67-8 | W |
| Vinyl chloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 75-01-4 | W |
| m&p-Xylene | **<50.0** | ug/kg | 120 | 50.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 179601-23-1 | W |
| o-Xylene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 95-47-6 | W |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 133 | % | 57-146 | | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 1868-53-7 | |
| Toluene-d8 (S) | 125 | % | 64-134 | | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 125 | % | 54-126 | | 1 | 06/28/19 10:30 | 07/02/19 19:17 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | **8.0** | % | 0.10 | 0.10 | 1 | | 07/08/19 17:19 | | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

**Sample: SB-7 S-2 10'-12'** **Lab ID: 40190169005** Collected: 06/26/19 14:15 Received: 06/26/19 17:10 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Med Level Normal List** | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | |
| Benzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 71-43-2 | W |
| Bromobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 108-86-1 | W |
| Bromochloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 74-97-5 | W |
| Bromodichloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 75-27-4 | W |
| Bromoform | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 75-25-2 | W |
| Bromomethane | **<69.9** | ug/kg | 250 | 69.9 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 74-83-9 | W |
| n-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 104-51-8 | W |
| sec-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 135-98-8 | W |
| tert-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 98-06-6 | W |
| Carbon tetrachloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 56-23-5 | W |
| Chlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 108-90-7 | W |
| Chloroethane | **<67.0** | ug/kg | 250 | 67.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 75-00-3 | W |
| Chloroform | **<46.4** | ug/kg | 250 | 46.4 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 67-66-3 | W |
| Chloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 74-87-3 | W |
| 2-Chlorotoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 95-49-8 | W |
| 4-Chlorotoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | **<91.2** | ug/kg | 250 | 91.2 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 96-12-8 | W |
| Dibromochloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 106-93-4 | W |
| Dibromomethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 74-95-3 | W |
| 1,2-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 95-50-1 | W |
| 1,3-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 541-73-1 | W |
| 1,4-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 106-46-7 | W |
| Dichlorodifluoromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 75-71-8 | W |
| 1,1-Dichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 75-34-3 | W |
| 1,2-Dichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 107-06-2 | W |
| 1,1-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 75-35-4 | W |
| cis-1,2-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 156-59-2 | W |
| trans-1,2-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 156-60-5 | W |
| 1,2-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 78-87-5 | W |
| 1,3-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 142-28-9 | W |
| 2,2-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 594-20-7 | W |
| 1,1-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 563-58-6 | W |
| cis-1,3-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 10061-02-6 | W |
| Diisopropyl ether | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 108-20-3 | W |
| Ethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 98-82-8 | W |
| p-Isopropyltoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 99-87-6 | W |
| Methylene Chloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 75-09-2 | W |
| Methyl-tert-butyl ether | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 1634-04-4 | W |
| Naphthalene | **<40.0** | ug/kg | 250 | 40.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 91-20-3 | W |
| n-Propylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 103-65-1 | W |
| Styrene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 100-42-5 | W |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

**Sample: SB-7 S-2 10'-12'** **Lab ID: 40190169005** Collected: 06/26/19 14:15 Received: 06/26/19 17:10 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Med Level Normal List** | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 79-34-5 | W |
| Tetrachloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 127-18-4 | W |
| Toluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | **<47.6** | ug/kg | 250 | 47.6 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 120-82-1 | W |
| 1,1,1-Trichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 71-55-6 | W |
| 1,1,2-Trichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 79-00-5 | W |
| Trichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 79-01-6 | W |
| Trichlorofluoromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 75-69-4 | W |
| 1,2,3-Trichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 108-67-8 | W |
| Vinyl chloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 75-01-4 | W |
| m&p-Xylene | **<50.0** | ug/kg | 120 | 50.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 179601-23-1 | W |
| o-Xylene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 95-47-6 | W |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 113 | % | 57-146 | | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 1868-53-7 | |
| Toluene-d8 (S) | 106 | % | 64-134 | | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 107 | % | 54-126 | | 1 | 06/28/19 10:30 | 07/02/19 19:40 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | **3.6** | % | 0.10 | 0.10 | 1 | | 07/08/19 17:19 | | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

**Sample: TRIP BLANK** **Lab ID: 40190169006** Collected: 06/26/19 00:00 Received: 06/26/19 17:10 Matrix: Solid

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Med Level Normal List** | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | |
| Benzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 71-43-2 | W |
| Bromobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 108-86-1 | W |
| Bromochloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 74-97-5 | W |
| Bromodichloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 75-27-4 | W |
| Bromoform | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 75-25-2 | W |
| Bromomethane | **<69.9** | ug/kg | 250 | 69.9 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 74-83-9 | W |
| n-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 104-51-8 | W |
| sec-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 135-98-8 | W |
| tert-Butylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 98-06-6 | W |
| Carbon tetrachloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 56-23-5 | W |
| Chlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 108-90-7 | W |
| Chloroethane | **<67.0** | ug/kg | 250 | 67.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 75-00-3 | W |
| Chloroform | **<46.4** | ug/kg | 250 | 46.4 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 67-66-3 | W |
| Chloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 74-87-3 | W |
| 2-Chlorotoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 95-49-8 | W |
| 4-Chlorotoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | **<91.2** | ug/kg | 250 | 91.2 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 96-12-8 | W |
| Dibromochloromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 106-93-4 | W |
| Dibromomethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 74-95-3 | W |
| 1,2-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 95-50-1 | W |
| 1,3-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 541-73-1 | W |
| 1,4-Dichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 106-46-7 | W |
| Dichlorodifluoromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 75-71-8 | W |
| 1,1-Dichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 75-34-3 | W |
| 1,2-Dichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 107-06-2 | W |
| 1,1-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 75-35-4 | W |
| cis-1,2-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 156-59-2 | W |
| trans-1,2-Dichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 156-60-5 | W |
| 1,2-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 78-87-5 | W |
| 1,3-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 142-28-9 | W |
| 2,2-Dichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 594-20-7 | W |
| 1,1-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 563-58-6 | W |
| cis-1,3-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 10061-02-6 | W |
| Diisopropyl ether | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 108-20-3 | W |
| Ethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 98-82-8 | W |
| p-Isopropyltoluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 99-87-6 | W |
| Methylene Chloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 75-09-2 | W |
| Methyl-tert-butyl ether | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 1634-04-4 | W |
| Naphthalene | **<40.0** | ug/kg | 250 | 40.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 91-20-3 | W |
| n-Propylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 103-65-1 | W |
| Styrene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 100-42-5 | W |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

**Sample: TRIP BLANK** **Lab ID: 40190169006** Collected: 06/26/19 00:00 Received: 06/26/19 17:10 Matrix: Solid

***Results reported on a "wet-weight" basis***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Med Level Normal List** | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 79-34-5 | W |
| Tetrachloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 127-18-4 | W |
| Toluene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | **<47.6** | ug/kg | 250 | 47.6 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 120-82-1 | W |
| 1,1,1-Trichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 71-55-6 | W |
| 1,1,2-Trichloroethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 79-00-5 | W |
| Trichloroethene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 79-01-6 | W |
| Trichlorofluoromethane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 75-69-4 | W |
| 1,2,3-Trichloropropane | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 108-67-8 | W |
| Vinyl chloride | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 75-01-4 | W |
| m&p-Xylene | **<50.0** | ug/kg | 120 | 50.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 179601-23-1 | W |
| o-Xylene | **<25.0** | ug/kg | 60.0 | 25.0 | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 95-47-6 | W |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 100 | % | 57-146 | | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 1868-53-7 | |
| Toluene-d8 (S) | 92 | % | 64-134 | | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 101 | % | 54-126 | | 1 | 06/28/19 10:30 | 07/02/19 11:46 | 460-00-4 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

QC Batch: 326080 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40190169001, 40190169002, 40190169003, 40190169004, 40190169005, 40190169006

METHOD BLANK: 1893289 Matrix: Solid
Associated Lab Samples: 40190169001, 40190169002, 40190169003, 40190169004, 40190169005, 40190169006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/kg | <13.7 | 50.0 | 07/02/19 10:13 | |
| 1,1,1-Trichloroethane | ug/kg | <14.4 | 50.0 | 07/02/19 10:13 | |
| 1,1,2,2-Tetrachloroethane | ug/kg | <17.5 | 50.0 | 07/02/19 10:13 | |
| 1,1,2-Trichloroethane | ug/kg | <20.2 | 50.0 | 07/02/19 10:13 | |
| 1,1-Dichloroethane | ug/kg | <17.6 | 50.0 | 07/02/19 10:13 | |
| 1,1-Dichloroethene | ug/kg | <17.6 | 50.0 | 07/02/19 10:13 | |
| 1,1-Dichloropropene | ug/kg | <14.0 | 50.0 | 07/02/19 10:13 | |
| 1,2,3-Trichlorobenzene | ug/kg | <17.0 | 50.0 | 07/02/19 10:13 | |
| 1,2,3-Trichloropropane | ug/kg | <22.3 | 50.0 | 07/02/19 10:13 | |
| 1,2,4-Trichlorobenzene | ug/kg | <47.6 | 250 | 07/02/19 10:13 | |
| 1,2,4-Trimethylbenzene | ug/kg | <12.2 | 50.0 | 07/02/19 10:13 | |
| 1,2-Dibromo-3-chloropropane | ug/kg | <91.2 | 250 | 07/02/19 10:13 | |
| 1,2-Dibromoethane (EDB) | ug/kg | <14.7 | 50.0 | 07/02/19 10:13 | |
| 1,2-Dichlorobenzene | ug/kg | <16.2 | 50.0 | 07/02/19 10:13 | |
| 1,2-Dichloroethane | ug/kg | <15.0 | 50.0 | 07/02/19 10:13 | |
| 1,2-Dichloropropane | ug/kg | <16.8 | 50.0 | 07/02/19 10:13 | |
| 1,3,5-Trimethylbenzene | ug/kg | <14.5 | 50.0 | 07/02/19 10:13 | |
| 1,3-Dichlorobenzene | ug/kg | <13.2 | 50.0 | 07/02/19 10:13 | |
| 1,3-Dichloropropane | ug/kg | <12.0 | 50.0 | 07/02/19 10:13 | |
| 1,4-Dichlorobenzene | ug/kg | <15.9 | 50.0 | 07/02/19 10:13 | |
| 2,2-Dichloropropane | ug/kg | <12.6 | 50.0 | 07/02/19 10:13 | |
| 2-Chlorotoluene | ug/kg | <15.8 | 50.0 | 07/02/19 10:13 | |
| 4-Chlorotoluene | ug/kg | <13.0 | 50.0 | 07/02/19 10:13 | |
| Benzene | ug/kg | <9.2 | 20.0 | 07/02/19 10:13 | |
| Bromobenzene | ug/kg | <20.6 | 50.0 | 07/02/19 10:13 | |
| Bromochloromethane | ug/kg | <21.4 | 50.0 | 07/02/19 10:13 | |
| Bromodichloromethane | ug/kg | <9.8 | 50.0 | 07/02/19 10:13 | |
| Bromoform | ug/kg | <19.8 | 50.0 | 07/02/19 10:13 | |
| Bromomethane | ug/kg | <69.9 | 250 | 07/02/19 10:13 | |
| Carbon tetrachloride | ug/kg | <12.1 | 50.0 | 07/02/19 10:13 | |
| Chlorobenzene | ug/kg | <14.8 | 50.0 | 07/02/19 10:13 | |
| Chloroethane | ug/kg | <67.0 | 250 | 07/02/19 10:13 | |
| Chloroform | ug/kg | <46.4 | 250 | 07/02/19 10:13 | |
| Chloromethane | ug/kg | <20.4 | 50.0 | 07/02/19 10:13 | |
| cis-1,2-Dichloroethene | ug/kg | <16.6 | 50.0 | 07/02/19 10:13 | |
| cis-1,3-Dichloropropene | ug/kg | <16.6 | 50.0 | 07/02/19 10:13 | |
| Dibromochloromethane | ug/kg | <17.9 | 50.0 | 07/02/19 10:13 | |
| Dibromomethane | ug/kg | <19.3 | 50.0 | 07/02/19 10:13 | |
| Dichlorodifluoromethane | ug/kg | <12.3 | 50.0 | 07/02/19 10:13 | |
| Diisopropyl ether | ug/kg | <17.7 | 50.0 | 07/02/19 10:13 | |
| Ethylbenzene | ug/kg | <12.4 | 50.0 | 07/02/19 10:13 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

METHOD BLANK: 1893289 Matrix: Solid
Associated Lab Samples: 40190169001, 40190169002, 40190169003, 40190169004, 40190169005, 40190169006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | ug/kg | <24.5 | 50.0 | 07/02/19 10:13 | |
| Isopropylbenzene (Cumene) | ug/kg | <12.6 | 50.0 | 07/02/19 10:13 | |
| m&p-Xylene | ug/kg | <34.4 | 100 | 07/02/19 10:13 | |
| Methyl-tert-butyl ether | ug/kg | <12.7 | 50.0 | 07/02/19 10:13 | |
| Methylene Chloride | ug/kg | <16.2 | 50.0 | 07/02/19 10:13 | |
| n-Butylbenzene | ug/kg | <10.5 | 50.0 | 07/02/19 10:13 | |
| n-Propylbenzene | ug/kg | <11.6 | 50.0 | 07/02/19 10:13 | |
| Naphthalene | ug/kg | <40.0 | 250 | 07/02/19 10:13 | |
| o-Xylene | ug/kg | <14.0 | 50.0 | 07/02/19 10:13 | |
| p-Isopropyltoluene | ug/kg | <12.0 | 50.0 | 07/02/19 10:13 | |
| sec-Butylbenzene | ug/kg | <11.9 | 50.0 | 07/02/19 10:13 | |
| Styrene | ug/kg | <9.0 | 50.0 | 07/02/19 10:13 | |
| tert-Butylbenzene | ug/kg | <9.5 | 50.0 | 07/02/19 10:13 | |
| Tetrachloroethene | ug/kg | <12.9 | 50.0 | 07/02/19 10:13 | |
| Toluene | ug/kg | <11.2 | 50.0 | 07/02/19 10:13 | |
| trans-1,2-Dichloroethene | ug/kg | <16.5 | 50.0 | 07/02/19 10:13 | |
| trans-1,3-Dichloropropene | ug/kg | <14.4 | 50.0 | 07/02/19 10:13 | |
| Trichloroethene | ug/kg | <23.6 | 50.0 | 07/02/19 10:13 | |
| Trichlorofluoromethane | ug/kg | <24.7 | 50.0 | 07/02/19 10:13 | |
| Vinyl chloride | ug/kg | <21.1 | 50.0 | 07/02/19 10:13 | |
| 4-Bromofluorobenzene (S) | % | 79 | 54-126 | 07/02/19 10:13 | |
| Dibromofluoromethane (S) | % | 87 | 57-146 | 07/02/19 10:13 | |
| Toluene-d8 (S) | % | 79 | 64-134 | 07/02/19 10:13 | |

LABORATORY CONTROL SAMPLE: 1893290

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ug/kg | 2500 | 2510 | 100 | 70-132 | |
| 1,1,2,2-Tetrachloroethane | ug/kg | 2500 | 3170 | 127 | 70-130 | |
| 1,1,2-Trichloroethane | ug/kg | 2500 | 2830 | 113 | 70-130 | |
| 1,1-Dichloroethane | ug/kg | 2500 | 2550 | 102 | 70-130 | |
| 1,1-Dichloroethene | ug/kg | 2500 | 2830 | 113 | 77-126 | |
| 1,2,4-Trichlorobenzene | ug/kg | 2500 | 1850 | 74 | 66-130 | |
| 1,2-Dibromo-3-chloropropane | ug/kg | 2500 | 2230 | 89 | 54-129 | |
| 1,2-Dibromoethane (EDB) | ug/kg | 2500 | 2670 | 107 | 70-130 | |
| 1,2-Dichlorobenzene | ug/kg | 2500 | 2530 | 101 | 70-130 | |
| 1,2-Dichloroethane | ug/kg | 2500 | 2870 | 115 | 70-134 | |
| 1,2-Dichloropropane | ug/kg | 2500 | 2520 | 101 | 74-124 | |
| 1,3-Dichlorobenzene | ug/kg | 2500 | 2590 | 104 | 70-130 | |
| 1,4-Dichlorobenzene | ug/kg | 2500 | 2510 | 101 | 70-130 | |
| Benzene | ug/kg | 2500 | 2770 | 111 | 70-130 | |
| Bromodichloromethane | ug/kg | 2500 | 2710 | 109 | 70-130 | |
| Bromoform | ug/kg | 2500 | 2850 | 114 | 47-115 | |
| Bromomethane | ug/kg | 2500 | 2760 | 111 | 64-165 | |

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## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

LABORATORY CONTROL SAMPLE: 1893290

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Carbon tetrachloride | ug/kg | 2500 | 2190 | 88 | 70-131 | |
| Chlorobenzene | ug/kg | 2500 | 2730 | 109 | 70-130 | |
| Chloroethane | ug/kg | 2500 | 2940 | 118 | 28-197 | |
| Chloroform | ug/kg | 2500 | 2730 | 109 | 80-131 | |
| Chloromethane | ug/kg | 2500 | 1860 | 74 | 45-118 | |
| cis-1,2-Dichloroethene | ug/kg | 2500 | 2570 | 103 | 70-130 | |
| cis-1,3-Dichloropropene | ug/kg | 2500 | 2420 | 97 | 70-130 | |
| Dibromochloromethane | ug/kg | 2500 | 2590 | 104 | 70-130 | |
| Dichlorodifluoromethane | ug/kg | 2500 | 1420 | 57 | 38-108 | |
| Ethylbenzene | ug/kg | 2500 | 2620 | 105 | 82-122 | |
| Isopropylbenzene (Cumene) | ug/kg | 2500 | 2590 | 103 | 70-130 | |
| m&p-Xylene | ug/kg | 5000 | 5260 | 105 | 70-130 | |
| Methyl-tert-butyl ether | ug/kg | 2500 | 2930 | 117 | 70-130 | |
| Methylene Chloride | ug/kg | 2500 | 3140 | 126 | 70-130 | |
| o-Xylene | ug/kg | 2500 | 2550 | 102 | 70-130 | |
| Styrene | ug/kg | 2500 | 2870 | 115 | 70-130 | |
| Tetrachloroethene | ug/kg | 2500 | 2160 | 87 | 70-130 | |
| Toluene | ug/kg | 2500 | 2590 | 103 | 80-121 | |
| trans-1,2-Dichloroethene | ug/kg | 2500 | 2740 | 110 | 70-130 | |
| trans-1,3-Dichloropropene | ug/kg | 2500 | 2550 | 102 | 70-130 | |
| Trichloroethene | ug/kg | 2500 | 2520 | 101 | 70-130 | |
| Trichlorofluoromethane | ug/kg | 2500 | 2920 | 117 | 81-141 | |
| Vinyl chloride | ug/kg | 2500 | 2190 | 88 | 68-121 | |
| 4-Bromofluorobenzene (S) | % | | | 118 | 54-126 | |
| Dibromofluoromethane (S) | % | | | 111 | 57-146 | |
| Toluene-d8 (S) | % | | | 105 | 64-134 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1893291 1893292

| Parameter | Units | 40190250009 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ug/kg | <25.0 | 1260 | 1250 | 1320 | 1290 | 105 | 103 | 64-132 | 3 | 20 | |
| 1,1,2,2-Tetrachloroethane | ug/kg | <25.0 | 1260 | 1250 | 1860 | 1700 | 148 | 136 | 70-132 | 9 | 20 | M1 |
| 1,1,2-Trichloroethane | ug/kg | <25.0 | 1260 | 1250 | 1530 | 1450 | 122 | 116 | 70-130 | 5 | 20 | |
| 1,1-Dichloroethane | ug/kg | <25.0 | 1260 | 1250 | 1380 | 1340 | 110 | 107 | 70-130 | 3 | 20 | |
| 1,1-Dichloroethene | ug/kg | <25.0 | 1260 | 1250 | 1530 | 1490 | 122 | 119 | 65-126 | 3 | 21 | |
| 1,2,4-Trichlorobenzene | ug/kg | <47.6 | 1260 | 1250 | 1030 | 954 | 82 | 76 | 66-139 | 7 | 20 | |
| 1,2-Dibromo-3-chloropropane | ug/kg | <91.2 | 1260 | 1250 | 1270 | 1150 | 101 | 92 | 47-146 | 10 | 23 | |
| 1,2-Dibromoethane (EDB) | ug/kg | <25.0 | 1260 | 1250 | 1410 | 1340 | 112 | 107 | 70-130 | 5 | 20 | |
| 1,2-Dichlorobenzene | ug/kg | <25.0 | 1260 | 1250 | 1450 | 1310 | 115 | 105 | 70-130 | 10 | 20 | |
| 1,2-Dichloroethane | ug/kg | <25.0 | 1260 | 1250 | 1560 | 1500 | 124 | 120 | 70-136 | 4 | 20 | |
| 1,2-Dichloropropane | ug/kg | 305 | 1260 | 1250 | 1710 | 1650 | 112 | 108 | 74-124 | 4 | 20 | |
| 1,3-Dichlorobenzene | ug/kg | <25.0 | 1260 | 1250 | 1380 | 1290 | 110 | 103 | 70-130 | 7 | 20 | |
| 1,4-Dichlorobenzene | ug/kg | <25.0 | 1260 | 1250 | 1440 | 1360 | 115 | 109 | 70-130 | 6 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1893291 1893292

| Parameter | Units | 40190250009 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ug/kg | <25.0 | 1260 | 1250 | 1520 | 1440 | 121 | 116 | 70-130 | 5 | 20 | |
| Bromodichloromethane | ug/kg | <25.0 | 1260 | 1250 | 1460 | 1350 | 116 | 108 | 70-130 | 8 | 20 | |
| Bromoform | ug/kg | <25.0 | 1260 | 1250 | 1430 | 1330 | 114 | 107 | 47-129 | 7 | 20 | |
| Bromomethane | ug/kg | <69.9 | 1260 | 1250 | 1520 | 1430 | 121 | 115 | 41-180 | 6 | 20 | |
| Carbon tetrachloride | ug/kg | <25.0 | 1260 | 1250 | 1220 | 1160 | 97 | 92 | 58-133 | 5 | 20 | |
| Chlorobenzene | ug/kg | <25.0 | 1260 | 1250 | 1460 | 1400 | 116 | 112 | 70-130 | 4 | 20 | |
| Chloroethane | ug/kg | <67.0 | 1260 | 1250 | 1620 | 1600 | 129 | 128 | 28-197 | 1 | 20 | |
| Chloroform | ug/kg | <46.4 | 1260 | 1250 | 1450 | 1430 | 115 | 114 | 80-131 | 1 | 20 | |
| Chloromethane | ug/kg | <25.0 | 1260 | 1250 | 1080 | 1040 | 86 | 83 | 26-118 | 4 | 20 | |
| cis-1,2-Dichloroethene | ug/kg | <25.0 | 1260 | 1250 | 1390 | 1360 | 111 | 109 | 70-130 | 2 | 20 | |
| cis-1,3-Dichloropropene | ug/kg | <25.0 | 1260 | 1250 | 1180 | 1140 | 94 | 91 | 70-130 | 3 | 20 | |
| Dibromochloromethane | ug/kg | <25.0 | 1260 | 1250 | 1320 | 1310 | 105 | 105 | 67-130 | 1 | 20 | |
| Dichlorodifluoromethane | ug/kg | <25.0 | 1260 | 1250 | 826 | 720 | 66 | 58 | 12-108 | 14 | 29 | |
| Ethylbenzene | ug/kg | <25.0 | 1260 | 1250 | 1340 | 1290 | 107 | 103 | 80-122 | 4 | 20 | |
| Isopropylbenzene (Cumene) | ug/kg | <25.0 | 1260 | 1250 | 1310 | 1270 | 104 | 102 | 70-130 | 3 | 20 | |
| m&p-Xylene | ug/kg | <50.0 | 2510 | 2500 | 2730 | 2600 | 109 | 104 | 70-130 | 5 | 20 | |
| Methyl-tert-butyl ether | ug/kg | <25.0 | 1260 | 1250 | 1620 | 1550 | 129 | 124 | 70-130 | 5 | 20 | |
| Methylene Chloride | ug/kg | <25.0 | 1260 | 1250 | 1760 | 1690 | 140 | 135 | 70-130 | 4 | 20 | M1 |
| o-Xylene | ug/kg | <25.0 | 1260 | 1250 | 1340 | 1310 | 106 | 105 | 70-130 | 2 | 20 | |
| Styrene | ug/kg | <25.0 | 1260 | 1250 | 1460 | 1420 | 116 | 113 | 70-130 | 3 | 20 | |
| Tetrachloroethene | ug/kg | <25.0 | 1260 | 1250 | 1140 | 1100 | 91 | 88 | 70-130 | 4 | 20 | |
| Toluene | ug/kg | <25.0 | 1260 | 1250 | 1390 | 1320 | 110 | 106 | 80-121 | 5 | 20 | |
| trans-1,2-Dichloroethene | ug/kg | <25.0 | 1260 | 1250 | 1490 | 1440 | 119 | 115 | 70-130 | 4 | 20 | |
| trans-1,3-Dichloropropene | ug/kg | <25.0 | 1260 | 1250 | 1140 | 1140 | 91 | 92 | 70-130 | 0 | 20 | |
| Trichloroethene | ug/kg | <25.0 | 1260 | 1250 | 1370 | 1320 | 109 | 105 | 70-130 | 4 | 20 | |
| Trichlorofluoromethane | ug/kg | <25.0 | 1260 | 1250 | 1530 | 1480 | 122 | 118 | 60-141 | 4 | 26 | |
| Vinyl chloride | ug/kg | <25.0 | 1260 | 1250 | 1180 | 1180 | 94 | 94 | 46-121 | 0 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 124 | 117 | 54-126 | | | |
| Dibromofluoromethane (S) | % | | | | | | 119 | 116 | 57-146 | | | |
| Toluene-d8 (S) | % | | | | | | 114 | 111 | 64-134 | | | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

QC Batch: 326819 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40190169001, 40190169002, 40190169003, 40190169004, 40190169005

SAMPLE DUPLICATE: 1897720

| Parameter | Units | 40190167001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 17.3 | 17.8 | 3 | 10 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

# QUALIFIERS

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## LABORATORIES

| | |
|---|---|
| PASI-G | Pace Analytical Services - Green Bay |

## ANALYTE QUALIFIERS

| | |
|---|---|
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| W | Non-detect results are reported on a wet weight basis. |

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1902744 P&G MOBIL
Pace Project No.: 40190169

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40190169001** | **SB-6 2'-4'** | EPA 5035/5030B | 326080 | EPA 8260 | 326081 |
| **40190169002** | **SB-5 2'-4'** | EPA 5035/5030B | 326080 | EPA 8260 | 326081 |
| **40190169003** | **SB-4A 2'-4'** | EPA 5035/5030B | 326080 | EPA 8260 | 326081 |
| **40190169004** | **SB-7 S-1 2'-4'** | EPA 5035/5030B | 326080 | EPA 8260 | 326081 |
| **40190169005** | **SB-7 S-2 10'-12'** | EPA 5035/5030B | 326080 | EPA 8260 | 326081 |
| **40190169006** | **TRIP BLANK** | EPA 5035/5030B | 326080 | EPA 8260 | 326081 |
| **40190169001** | **SB-6 2'-4'** | ASTM D2974-87 | 326819 | | |
| **40190169002** | **SB-5 2'-4'** | ASTM D2974-87 | 326819 | | |
| **40190169003** | **SB-4A 2'-4'** | ASTM D2974-87 | 326819 | | |
| **40190169004** | **SB-7 S-1 2'-4'** | ASTM D2974-87 | 326819 | | |
| **40190169005** | **SB-7 S-2 10'-12'** | ASTM D2974-87 | 326819 | | |

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of

40190169

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# CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

| (Please Print Clearly) | |
|---|---|
| Company Name: | GEI Consultants |
| Branch/Location: | Green Bay, WI |
| Project Contact: | Roger Miller |
| Phone: | (920) 455-8654 |
| Project Number: | 1902744 |
| Project Name: | [redacted] D+G Mobil |
| Project State: | WI |
| Sampled By (Print): | Faith M. Zangl-Wiese |
| Sampled By (Sign): | [signature] |
| PO #: | |
| Regulatory Program: | |

| Quote #: | |
|---|---|
| Mail To Contact: | |
| Mail To Company: | |
| Mail To Address: | |
| Invoice To Contact: | |
| Invoice To Company: | |
| Invoice To Address: | |
| Invoice To Phone: | |

**Data Package Options** (billable)
☐ EPA Level III
☐ EPA Level IV

**MS/MSD**
☐ On your sample (billable)
☐ NOT needed on your sample

**Matrix Codes**

| | |
|---|---|
| A = Air | W = Water |
| B = Biota | DW = Drinking Water |
| C = Charcoal | GW = Ground Water |
| O = Oil | SW = Surface Water |
| S = Soil | WW = Waste Water |
| SI = Sludge | WP = Wipe |

| PACE LAB # | CLIENT FIELD ID | COLLECTION DATE | COLLECTION TIME | MATRIX | FILTERED? (YES/NO) | PRESERVATION (CODE)* | Analyses Requested | | | | | | | | CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Y/N | Pick Letter | | N | N | | | | | | | | |
| | | | | | | | VOCs | F | A | | | | | | | | |
| | | | | | | | | 5, moist | | | | | | | | | |
| 001 | SB-6 2'-4' | 6/26 | 12:00 | S | | | | X | X | | | | | | | 16 | |
| 002 | SB-5 2'-4' | 6/26 | [redacted] | S | | | | X | X | | | | | | 12:30 | | |
| 003 | SB-4A 2'-4' | 6/26 | 13:00 | S | | | | X | X | | | | | | | | |
| 004 | SB-7 S-1 2'-4' | 6/26 | 13:25 | S | | | | X | X | | | | | | | | |
| 005 | SB-7 S-2 10-12 | 6/26 | 14:15 | S | | | | X | X | | | | | | | | |
| 006 | [redacted] Trip Blank | | | | | | | | | | | | | | | Trip Blank added in lab 6/26/19 JV | |

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

| | |
|---|---|
| Email #1: | |
| Email #2: | |
| Telephone: | |
| Fax: | |

Samples on HOLD are subject to special pricing and release of liability

| Relinquished By: | Date/Time: | Received By: | Date/Time: |
|---|---|---|---|
| [signature] | 6/26/19 17:10 | [signature] | 6/26/19 1710 |
| | | | |
| | | | |
| | | | |
| | | | |

PACE Project No.
40190169

Receipt Temp = Rec °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302



# Sample Preservation Receipt Form

Client Name: GeI

Project # 40190169

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A

Initial when completed:

Date/ Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

| Pace Lab # | Glass: AG1U | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U | Plastic: BP1U | BP2N | BP2Z | BP3U | BP3B | BP3N | BP3S | Vials: DG9A | DG9T | VG9U | VG9H | VG9M | VG9D | Jars: JGFU | WGFU | WPFU | General: SP5T | ZPLC | GN | VOA Vials (>6mm) * | H2SO4 pH ≤2 | NaOH+Zn Act pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤2 | pH after adjusted | Volume (mL) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 006 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 012 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 017 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |

6/26/2019 KJ

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____

Headspace in VOA Vials (>6mm) : □Yes □No ☒N/A ***If yes look in headspace column**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AG1U | 1 liter amber glass | BP1U | 1 liter plastic unpres | DG9A | 40 mL amber ascorbic | JGFU | 4 oz amber jar unpres |
| AG1H | 1 liter amber glass HCL | BP2N | 500 mL plastic HNO3 | DG9T | 40 mL amber Na Thio | WGFU | 4 oz clear jar unpres |
| AG4S | 125 mL amber glass H2SO4 | BP2Z | 500 mL plastic NaOH, Znact | VG9U | 40 mL clear vial unpres | WPFU | 4 oz plastic jar unpres |
| AG4U | 120 mL amber glass unpres | BP3U | 250 mL plastic unpres | VG9H | 40 mL clear vial HCL | | |
| AG5U | 100 mL amber glass unpres | BP3B | 250 mL plastic NaOH | VG9M | 40 mL clear vial MeOH | SP5T | 120 mL plastic Na Thiosulfate |
| AG2S | 500 mL amber glass H2SO4 | BP3N | 250 mL plastic HNO3 | VG9D | 40 mL clear vial DI | ZPLC | ziploc bag |
| BG3U | 250 mL clear glass unpres | BP3S | 250 mL plastic H2SO4 | | | GN: | |

| Pace Analytical<br>1241 Bellevue Street, Green Bay, WI 54302 | Document Name:<br>**Sample Condition Upon Receipt (SCUR)** | Document Revised: 25Apr2018 |
|---|---|---|
| | Document No.:<br>**F-GB-C-031-Rev.07** | Issuing Authority:<br>Pace Green Bay Quality Office |

# Sample Condition Upon Receipt Form (SCUR)

Project #:

**WO# : 40190169**

40190169

**Client Name:** GCI

**Courier:** ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☒ Client ☐ Pace Other:

**Tracking #:**

**Custody Seal on Cooler/Box Present:** ☐ yes ☒ no Seals intact: ☐ yes ☐ no

**Custody Seal on Samples Present:** ☐ yes ☒ no Seals intact: ☐ yes ☐ no

**Packing Material:** ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

**Thermometer Used** SR - N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

**Cooler Temperature** Uncorr: R07 /Corr:

**Temp Blank Present:** ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

**Person examining contents:**
**Date:** 6/26/2019
**Initials:** JV

| | | |
|---|---|---|
| Chain of Custody Present: | ☒Yes ☐No ☐N/A | 1. |
| Chain of Custody Filled Out: | ☐Yes ☒No ☐N/A | 2. No Page #, mail or Invoice |
| Chain of Custody Relinquished: | ☒Yes ☐No ☐N/A | 3. 6/26/19 JV |
| Sampler Name & Signature on COC: | ☒Yes ☐No ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☒Yes ☐No | 5. |
| - VOA Samples frozen upon receipt | ☐Yes ☐No | Date/Time: |
| **Short Hold Time Analysis (<72hr):** | ☐Yes ☒No | 6. |
| **Rush Turn Around Time Requested:** | ☐Yes ☒No | 7. |
| Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A | | 8. |
| Correct Containers Used: | ☒Yes ☐No | 9. |
| -Pace Containers Used: | ☒Yes ☐No ☐N/A | |
| -Pace IR Containers Used: | ☐Yes ☐No ☒N/A | |
| Containers Intact: | ☒Yes ☐No | 10. |
| Filtered volume received for Dissolved tests | ☐Yes ☐No ☒N/A | 11. |
| Sample Labels match COC: | ☐Yes ☒No ☐N/A | 12. Times rubbed of 6/26/2019 JV |
| -Includes date/time/ID/Analysis Matrix: S | | |
| Trip Blank Present: | ☒Yes ☐No ☒N/A | 13. 6/26/2019 JV added in lab 6/26/2019 JV |
| Trip Blank Custody Seals Present | ☒Yes ☐No ☒N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

**Client Notification/ Resolution:** If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

**Project Manager Review:** Date: 6/27/19

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

August 05, 2019

Roger Miller
GEI Consultants, Inc.
3159 Voyager Drive
Green Bay, WI 54311

RE: Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

Dear Roger Miller:
Enclosed are the analytical results for sample(s) received by the laboratory on August 01, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## CERTIFICATIONS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Green Bay Certification IDs**

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## SAMPLE SUMMARY

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **40192222001** | **MW-8** | Water | 08/01/19 08:35 | 08/01/19 14:40 |
| **40192222002** | **MW-8A** | Water | 08/01/19 08:50 | 08/01/19 14:40 |
| **40192222003** | **PZ-8** | Water | 08/01/19 09:05 | 08/01/19 14:40 |
| **40192222004** | **MW-9** | Water | 08/01/19 09:25 | 08/01/19 14:40 |
| **40192222005** | **MW-7** | Water | 08/01/19 09:50 | 08/01/19 14:40 |
| **40192222006** | **MW-6** | Water | 08/01/19 11:45 | 08/01/19 14:40 |
| **40192222007** | **MW-5** | Water | 08/01/19 11:15 | 08/01/19 14:40 |
| **40192222008** | **MW-4** | Water | 08/01/19 12:55 | 08/01/19 14:40 |
| **40192222009** | **MW-3** | Water | 08/01/19 13:20 | 08/01/19 14:40 |
| **40192222010** | **MW-2** | Water | 08/01/19 10:45 | 08/01/19 14:40 |
| **40192222011** | **MW-1** | Water | 08/01/19 10:16 | 08/01/19 14:40 |
| **40192222012** | **DUPLICATE (MW-5)** | Water | 08/01/19 11:15 | 08/01/19 14:40 |
| **40192222013** | **TRIP BLANK** | Water | 08/01/19 09:45 | 08/01/19 14:40 |

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## SAMPLE ANALYTE COUNT

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **40192222001** | **MW-8** | EPA 8260 | HNW | 64 | PASI-G |
| **40192222002** | **MW-8A** | EPA 8260 | HNW | 64 | PASI-G |
| **40192222003** | **PZ-8** | EPA 8260 | HNW | 64 | PASI-G |
| **40192222004** | **MW-9** | EPA 8260 | HNW | 64 | PASI-G |
| **40192222005** | **MW-7** | EPA 8260 | HNW | 64 | PASI-G |
| **40192222006** | **MW-6** | EPA 8260 | HNW | 64 | PASI-G |
| **40192222007** | **MW-5** | EPA 8260 | HNW | 64 | PASI-G |
| **40192222008** | **MW-4** | EPA 8260 | HNW | 64 | PASI-G |
| **40192222009** | **MW-3** | EPA 8260 | HNW | 64 | PASI-G |
| **40192222010** | **MW-2** | EPA 8260 | LAP | 64 | PASI-G |
| **40192222011** | **MW-1** | EPA 8260 | LAP | 64 | PASI-G |
| **40192222012** | **DUPLICATE (MW-5)** | EPA 8260 | LAP | 64 | PASI-G |
| **40192222013** | **TRIP BLANK** | EPA 8260 | LAP | 64 | PASI-G |

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(920)469-2436

## SUMMARY OF DETECTION

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **40192222006** | **MW-6** | | | | | |
| EPA 8260 | Ethylbenzene | 2.1 | ug/L | 1.0 | 08/02/19 15:35 | |
| EPA 8260 | Isopropylbenzene (Cumene) | 0.53J | ug/L | 5.0 | 08/02/19 15:35 | |
| EPA 8260 | n-Propylbenzene | 2.5J | ug/L | 5.0 | 08/02/19 15:35 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 15.1 | ug/L | 2.8 | 08/02/19 15:35 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 4.2 | ug/L | 2.9 | 08/02/19 15:35 | |
| EPA 8260 | m&p-Xylene | 6.4 | ug/L | 2.0 | 08/02/19 15:35 | |
| EPA 8260 | o-Xylene | 0.51J | ug/L | 1.0 | 08/02/19 15:35 | |
| **40192222007** | **MW-5** | | | | | |
| EPA 8260 | Benzene | 36.5 | ug/L | 25.0 | 08/02/19 16:43 | |
| EPA 8260 | Ethylbenzene | 3550 | ug/L | 25.0 | 08/02/19 16:43 | |
| EPA 8260 | Isopropylbenzene (Cumene) | 92.2J | ug/L | 125 | 08/02/19 16:43 | |
| EPA 8260 | Naphthalene | 645 | ug/L | 125 | 08/02/19 16:43 | |
| EPA 8260 | n-Propylbenzene | 281 | ug/L | 125 | 08/02/19 16:43 | |
| EPA 8260 | Toluene | 160 | ug/L | 125 | 08/02/19 16:43 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 1950 | ug/L | 70.0 | 08/02/19 16:43 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 447 | ug/L | 72.8 | 08/02/19 16:43 | |
| EPA 8260 | m&p-Xylene | 8010 | ug/L | 50.0 | 08/02/19 16:43 | |
| EPA 8260 | o-Xylene | 424 | ug/L | 25.0 | 08/02/19 16:43 | |
| **40192222008** | **MW-4** | | | | | |
| EPA 8260 | Benzene | 25.0 | ug/L | 1.0 | 08/02/19 16:20 | |
| EPA 8260 | sec-Butylbenzene | 13.0 | ug/L | 5.0 | 08/02/19 16:20 | |
| EPA 8260 | Ethylbenzene | 758 | ug/L | 10.0 | 08/05/19 08:32 | |
| EPA 8260 | Isopropylbenzene (Cumene) | 65.6 | ug/L | 5.0 | 08/02/19 16:20 | |
| EPA 8260 | p-Isopropyltoluene | 8.0 | ug/L | 2.7 | 08/02/19 16:20 | |
| EPA 8260 | Naphthalene | 141 | ug/L | 5.0 | 08/02/19 16:20 | |
| EPA 8260 | n-Propylbenzene | 192 | ug/L | 5.0 | 08/02/19 16:20 | |
| EPA 8260 | Toluene | 20.2 | ug/L | 5.0 | 08/02/19 16:20 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 852 | ug/L | 28.0 | 08/05/19 08:32 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 217 | ug/L | 2.9 | 08/02/19 16:20 | |
| EPA 8260 | m&p-Xylene | 1270 | ug/L | 20.0 | 08/05/19 08:32 | |
| EPA 8260 | o-Xylene | 30.0 | ug/L | 1.0 | 08/02/19 16:20 | |
| **40192222010** | **MW-2** | | | | | |
| EPA 8260 | Benzene | 26.1 | ug/L | 1.0 | 08/05/19 08:44 | |
| EPA 8260 | Ethylbenzene | 169 | ug/L | 1.0 | 08/05/19 08:44 | |
| EPA 8260 | Isopropylbenzene (Cumene) | 6.4 | ug/L | 5.0 | 08/05/19 08:44 | |
| EPA 8260 | Naphthalene | 30.2 | ug/L | 5.0 | 08/05/19 08:44 | |
| EPA 8260 | n-Propylbenzene | 14.3 | ug/L | 5.0 | 08/05/19 08:44 | |
| EPA 8260 | Toluene | 351 | ug/L | 50.0 | 08/05/19 11:21 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 92.5 | ug/L | 2.8 | 08/05/19 08:44 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 20.8 | ug/L | 2.9 | 08/05/19 08:44 | |
| EPA 8260 | m&p-Xylene | 410 | ug/L | 2.0 | 08/05/19 08:44 | |
| EPA 8260 | o-Xylene | 144 | ug/L | 1.0 | 08/05/19 08:44 | |
| **40192222012** | **DUPLICATE (MW-5)** | | | | | |
| EPA 8260 | Benzene | 27.4J | ug/L | 50.0 | 08/02/19 17:08 | |
| EPA 8260 | Ethylbenzene | 3430 | ug/L | 50.0 | 08/02/19 17:08 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## SUMMARY OF DETECTION

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **40192222012** | **DUPLICATE (MW-5)** | | | | | |
| EPA 8260 | Isopropylbenzene (Cumene) | 96.5J | ug/L | 250 | 08/02/19 17:08 | |
| EPA 8260 | Naphthalene | 559 | ug/L | 250 | 08/02/19 17:08 | |
| EPA 8260 | n-Propylbenzene | 243J | ug/L | 250 | 08/02/19 17:08 | |
| EPA 8260 | Toluene | 188J | ug/L | 250 | 08/02/19 17:08 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 1660 | ug/L | 140 | 08/02/19 17:08 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 387 | ug/L | 146 | 08/02/19 17:08 | |
| EPA 8260 | m&p-Xylene | 8640 | ug/L | 100 | 08/02/19 17:08 | |
| EPA 8260 | o-Xylene | 657 | ug/L | 50.0 | 08/02/19 17:08 | |

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## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-8** **Lab ID: 40192222001** Collected: 08/01/19 08:35 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 08/02/19 13:43 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 13:43 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 08/02/19 13:43 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 08/02/19 13:43 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 08/02/19 13:43 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 08/02/19 13:43 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 13:43 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 08/02/19 13:43 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 08/02/19 13:43 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 13:43 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 13:43 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 13:43 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 13:43 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 08/02/19 13:43 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 08/02/19 13:43 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 08/02/19 13:43 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 08/02/19 13:43 | 96-12-8 | L2 |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 08/02/19 13:43 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 13:43 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 13:43 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 13:43 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 08/02/19 13:43 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 13:43 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 08/02/19 13:43 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 13:43 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 13:43 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 13:43 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 13:43 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 08/02/19 13:43 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 13:43 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 13:43 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 08/02/19 13:43 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 08/02/19 13:43 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 08/02/19 13:43 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 08/02/19 13:43 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 08/02/19 13:43 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 08/02/19 13:43 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 13:43 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 08/02/19 13:43 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 08/02/19 13:43 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 08/02/19 13:43 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 08/02/19 13:43 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 13:43 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 08/02/19 13:43 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 08/02/19 13:43 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 13:43 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-8** **Lab ID: 40192222001** Collected: 08/01/19 08:35 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 13:43 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 08/02/19 13:43 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 08/02/19 13:43 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 08/02/19 13:43 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 08/02/19 13:43 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 13:43 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 08/02/19 13:43 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 13:43 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/02/19 13:43 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 08/02/19 13:43 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 08/02/19 13:43 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 08/02/19 13:43 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 13:43 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 08/02/19 13:43 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 13:43 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 83 | % | 70-130 | | 1 | | 08/02/19 13:43 | 460-00-4 | |
| Dibromofluoromethane (S) | 102 | % | 70-130 | | 1 | | 08/02/19 13:43 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | % | 70-130 | | 1 | | 08/02/19 13:43 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-8A** **Lab ID: 40192222002** Collected: 08/01/19 08:50 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 08/02/19 14:05 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 14:05 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 08/02/19 14:05 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 08/02/19 14:05 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 08/02/19 14:05 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 08/02/19 14:05 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 14:05 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 08/02/19 14:05 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 08/02/19 14:05 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 14:05 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 14:05 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 14:05 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 14:05 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 08/02/19 14:05 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 08/02/19 14:05 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 08/02/19 14:05 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 08/02/19 14:05 | 96-12-8 | L2 |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 08/02/19 14:05 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 14:05 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 14:05 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 14:05 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 08/02/19 14:05 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 14:05 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 08/02/19 14:05 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 14:05 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 14:05 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 14:05 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 14:05 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 08/02/19 14:05 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 14:05 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 14:05 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 08/02/19 14:05 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 08/02/19 14:05 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 08/02/19 14:05 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 08/02/19 14:05 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 08/02/19 14:05 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 08/02/19 14:05 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 14:05 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 08/02/19 14:05 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 08/02/19 14:05 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 08/02/19 14:05 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 08/02/19 14:05 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 14:05 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 08/02/19 14:05 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 08/02/19 14:05 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 14:05 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-8A** **Lab ID: 40192222002** Collected: 08/01/19 08:50 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 14:05 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 08/02/19 14:05 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 08/02/19 14:05 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 08/02/19 14:05 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 08/02/19 14:05 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 14:05 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 08/02/19 14:05 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 14:05 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/02/19 14:05 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 08/02/19 14:05 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 08/02/19 14:05 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 08/02/19 14:05 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 14:05 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 08/02/19 14:05 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 14:05 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 83 | % | 70-130 | | 1 | | 08/02/19 14:05 | 460-00-4 | |
| Dibromofluoromethane (S) | 103 | % | 70-130 | | 1 | | 08/02/19 14:05 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | % | 70-130 | | 1 | | 08/02/19 14:05 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: PZ-8** **Lab ID: 40192222003** Collected: 08/01/19 09:05 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 08/02/19 14:28 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 14:28 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 08/02/19 14:28 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 08/02/19 14:28 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 08/02/19 14:28 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 08/02/19 14:28 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 14:28 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 08/02/19 14:28 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 08/02/19 14:28 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 14:28 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 14:28 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 14:28 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 14:28 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 08/02/19 14:28 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 08/02/19 14:28 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 08/02/19 14:28 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 08/02/19 14:28 | 96-12-8 | L2 |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 08/02/19 14:28 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 14:28 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 14:28 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 14:28 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 08/02/19 14:28 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 14:28 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 08/02/19 14:28 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 14:28 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 14:28 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 14:28 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 14:28 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 08/02/19 14:28 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 14:28 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 14:28 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 08/02/19 14:28 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 08/02/19 14:28 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 08/02/19 14:28 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 08/02/19 14:28 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 08/02/19 14:28 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 08/02/19 14:28 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 14:28 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 08/02/19 14:28 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 08/02/19 14:28 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 08/02/19 14:28 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 08/02/19 14:28 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 14:28 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 08/02/19 14:28 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 08/02/19 14:28 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 14:28 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: PZ-8** **Lab ID: 40192222003** Collected: 08/01/19 09:05 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 14:28 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 08/02/19 14:28 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 08/02/19 14:28 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 08/02/19 14:28 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 08/02/19 14:28 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 14:28 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 08/02/19 14:28 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 14:28 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/02/19 14:28 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 08/02/19 14:28 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 08/02/19 14:28 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 08/02/19 14:28 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 14:28 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 08/02/19 14:28 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 14:28 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 83 | % | 70-130 | | 1 | | 08/02/19 14:28 | 460-00-4 | |
| Dibromofluoromethane (S) | 103 | % | 70-130 | | 1 | | 08/02/19 14:28 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | % | 70-130 | | 1 | | 08/02/19 14:28 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-9** **Lab ID: 40192222004** Collected: 08/01/19 09:25 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 08/02/19 14:50 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 14:50 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 08/02/19 14:50 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 08/02/19 14:50 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 08/02/19 14:50 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 08/02/19 14:50 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 14:50 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 08/02/19 14:50 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 08/02/19 14:50 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 14:50 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 14:50 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 14:50 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 14:50 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 08/02/19 14:50 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 08/02/19 14:50 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 08/02/19 14:50 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 08/02/19 14:50 | 96-12-8 | L2 |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 08/02/19 14:50 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 14:50 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 14:50 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 14:50 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 08/02/19 14:50 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 14:50 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 08/02/19 14:50 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 14:50 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 14:50 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 14:50 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 14:50 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 08/02/19 14:50 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 14:50 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 14:50 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 08/02/19 14:50 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 08/02/19 14:50 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 08/02/19 14:50 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 08/02/19 14:50 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 08/02/19 14:50 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 08/02/19 14:50 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 14:50 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 08/02/19 14:50 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 08/02/19 14:50 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 08/02/19 14:50 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 08/02/19 14:50 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 14:50 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 08/02/19 14:50 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 08/02/19 14:50 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 14:50 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-9** **Lab ID: 40192222004** Collected: 08/01/19 09:25 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 14:50 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 08/02/19 14:50 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 08/02/19 14:50 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 08/02/19 14:50 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 08/02/19 14:50 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 14:50 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 08/02/19 14:50 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 14:50 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/02/19 14:50 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 08/02/19 14:50 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 08/02/19 14:50 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 08/02/19 14:50 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 14:50 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 08/02/19 14:50 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 14:50 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 82 | % | 70-130 | | 1 | | 08/02/19 14:50 | 460-00-4 | |
| Dibromofluoromethane (S) | 104 | % | 70-130 | | 1 | | 08/02/19 14:50 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | % | 70-130 | | 1 | | 08/02/19 14:50 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-7** **Lab ID: 40192222005** Collected: 08/01/19 09:50 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 08/02/19 15:12 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 15:12 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 08/02/19 15:12 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 08/02/19 15:12 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 08/02/19 15:12 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 08/02/19 15:12 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 15:12 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 08/02/19 15:12 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 08/02/19 15:12 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 15:12 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 15:12 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 15:12 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 15:12 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 08/02/19 15:12 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 08/02/19 15:12 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 08/02/19 15:12 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 08/02/19 15:12 | 96-12-8 | L2 |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 08/02/19 15:12 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 15:12 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 15:12 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 15:12 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 08/02/19 15:12 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 15:12 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 08/02/19 15:12 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 15:12 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 15:12 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 15:12 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 15:12 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 08/02/19 15:12 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 15:12 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 15:12 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 08/02/19 15:12 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 08/02/19 15:12 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 08/02/19 15:12 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 08/02/19 15:12 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 08/02/19 15:12 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 08/02/19 15:12 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 15:12 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 08/02/19 15:12 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 08/02/19 15:12 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 08/02/19 15:12 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 08/02/19 15:12 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 15:12 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 08/02/19 15:12 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 08/02/19 15:12 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 15:12 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-7** **Lab ID: 40192222005** Collected: 08/01/19 09:50 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 15:12 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 08/02/19 15:12 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 08/02/19 15:12 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 08/02/19 15:12 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 08/02/19 15:12 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 15:12 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 08/02/19 15:12 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 15:12 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/02/19 15:12 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 08/02/19 15:12 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 08/02/19 15:12 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 08/02/19 15:12 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 15:12 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 08/02/19 15:12 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 15:12 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 82 | % | 70-130 | | 1 | | 08/02/19 15:12 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 70-130 | | 1 | | 08/02/19 15:12 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | % | 70-130 | | 1 | | 08/02/19 15:12 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-6** **Lab ID: 40192222006** Collected: 08/01/19 11:45 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 08/02/19 15:35 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 15:35 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 08/02/19 15:35 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 08/02/19 15:35 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 08/02/19 15:35 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 08/02/19 15:35 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 15:35 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 08/02/19 15:35 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 08/02/19 15:35 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 15:35 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 15:35 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 15:35 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 15:35 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 08/02/19 15:35 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 08/02/19 15:35 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 08/02/19 15:35 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 08/02/19 15:35 | 96-12-8 | L2 |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 08/02/19 15:35 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 15:35 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 15:35 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 15:35 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 08/02/19 15:35 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 15:35 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 08/02/19 15:35 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 15:35 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 15:35 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 15:35 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 15:35 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 08/02/19 15:35 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 15:35 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 15:35 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 08/02/19 15:35 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 08/02/19 15:35 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 08/02/19 15:35 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 08/02/19 15:35 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 08/02/19 15:35 | 108-20-3 | |
| Ethylbenzene | **2.1** | ug/L | 1.0 | 0.22 | 1 | | 08/02/19 15:35 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 15:35 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **0.53J** | ug/L | 5.0 | 0.39 | 1 | | 08/02/19 15:35 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 08/02/19 15:35 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 08/02/19 15:35 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 08/02/19 15:35 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 15:35 | 91-20-3 | |
| n-Propylbenzene | **2.5J** | ug/L | 5.0 | 0.81 | 1 | | 08/02/19 15:35 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 08/02/19 15:35 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 15:35 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-6** **Lab ID: 40192222006** Collected: 08/01/19 11:45 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 15:35 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 08/02/19 15:35 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 08/02/19 15:35 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 08/02/19 15:35 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 08/02/19 15:35 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 15:35 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 08/02/19 15:35 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 15:35 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/02/19 15:35 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 08/02/19 15:35 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **15.1** | ug/L | 2.8 | 0.84 | 1 | | 08/02/19 15:35 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **4.2** | ug/L | 2.9 | 0.87 | 1 | | 08/02/19 15:35 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 15:35 | 75-01-4 | |
| m&p-Xylene | **6.4** | ug/L | 2.0 | 0.47 | 1 | | 08/02/19 15:35 | 179601-23-1 | |
| o-Xylene | **0.51J** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 15:35 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 85 | % | 70-130 | | 1 | | 08/02/19 15:35 | 460-00-4 | |
| Dibromofluoromethane (S) | 98 | % | 70-130 | | 1 | | 08/02/19 15:35 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 1 | | 08/02/19 15:35 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-5** **Lab ID: 40192222007** Collected: 08/01/19 11:15 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **36.5** | ug/L | 25.0 | 6.2 | 25 | | 08/02/19 16:43 | 71-43-2 | |
| Bromobenzene | **<6.0** | ug/L | 25.0 | 6.0 | 25 | | 08/02/19 16:43 | 108-86-1 | |
| Bromochloromethane | **<9.1** | ug/L | 125 | 9.1 | 25 | | 08/02/19 16:43 | 74-97-5 | |
| Bromodichloromethane | **<9.1** | ug/L | 30.3 | 9.1 | 25 | | 08/02/19 16:43 | 75-27-4 | |
| Bromoform | **<99.3** | ug/L | 331 | 99.3 | 25 | | 08/02/19 16:43 | 75-25-2 | |
| Bromomethane | **<24.3** | ug/L | 125 | 24.3 | 25 | | 08/02/19 16:43 | 74-83-9 | |
| n-Butylbenzene | **<17.7** | ug/L | 59.0 | 17.7 | 25 | | 08/02/19 16:43 | 104-51-8 | |
| sec-Butylbenzene | **<21.2** | ug/L | 125 | 21.2 | 25 | | 08/02/19 16:43 | 135-98-8 | |
| tert-Butylbenzene | **<7.6** | ug/L | 25.3 | 7.6 | 25 | | 08/02/19 16:43 | 98-06-6 | |
| Carbon tetrachloride | **<4.1** | ug/L | 25.0 | 4.1 | 25 | | 08/02/19 16:43 | 56-23-5 | |
| Chlorobenzene | **<17.8** | ug/L | 59.2 | 17.8 | 25 | | 08/02/19 16:43 | 108-90-7 | |
| Chloroethane | **<33.6** | ug/L | 125 | 33.6 | 25 | | 08/02/19 16:43 | 75-00-3 | |
| Chloroform | **<31.8** | ug/L | 125 | 31.8 | 25 | | 08/02/19 16:43 | 67-66-3 | |
| Chloromethane | **<54.7** | ug/L | 182 | 54.7 | 25 | | 08/02/19 16:43 | 74-87-3 | |
| 2-Chlorotoluene | **<23.2** | ug/L | 125 | 23.2 | 25 | | 08/02/19 16:43 | 95-49-8 | |
| 4-Chlorotoluene | **<18.9** | ug/L | 63.0 | 18.9 | 25 | | 08/02/19 16:43 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<44.1** | ug/L | 147 | 44.1 | 25 | | 08/02/19 16:43 | 96-12-8 | L2 |
| Dibromochloromethane | **<65.0** | ug/L | 217 | 65.0 | 25 | | 08/02/19 16:43 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<20.7** | ug/L | 69.1 | 20.7 | 25 | | 08/02/19 16:43 | 106-93-4 | |
| Dibromomethane | **<23.4** | ug/L | 78.1 | 23.4 | 25 | | 08/02/19 16:43 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<17.6** | ug/L | 58.8 | 17.6 | 25 | | 08/02/19 16:43 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<15.7** | ug/L | 52.3 | 15.7 | 25 | | 08/02/19 16:43 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<23.6** | ug/L | 78.6 | 23.6 | 25 | | 08/02/19 16:43 | 106-46-7 | |
| Dichlorodifluoromethane | **<12.5** | ug/L | 125 | 12.5 | 25 | | 08/02/19 16:43 | 75-71-8 | |
| 1,1-Dichloroethane | **<6.8** | ug/L | 25.0 | 6.8 | 25 | | 08/02/19 16:43 | 75-34-3 | |
| 1,2-Dichloroethane | **<7.0** | ug/L | 25.0 | 7.0 | 25 | | 08/02/19 16:43 | 107-06-2 | |
| 1,1-Dichloroethene | **<6.1** | ug/L | 25.0 | 6.1 | 25 | | 08/02/19 16:43 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<6.8** | ug/L | 25.0 | 6.8 | 25 | | 08/02/19 16:43 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<27.3** | ug/L | 90.9 | 27.3 | 25 | | 08/02/19 16:43 | 156-60-5 | |
| 1,2-Dichloropropane | **<7.1** | ug/L | 25.0 | 7.1 | 25 | | 08/02/19 16:43 | 78-87-5 | |
| 1,3-Dichloropropane | **<20.6** | ug/L | 68.8 | 20.6 | 25 | | 08/02/19 16:43 | 142-28-9 | |
| 2,2-Dichloropropane | **<56.6** | ug/L | 189 | 56.6 | 25 | | 08/02/19 16:43 | 594-20-7 | |
| 1,1-Dichloropropene | **<13.5** | ug/L | 45.0 | 13.5 | 25 | | 08/02/19 16:43 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<90.7** | ug/L | 302 | 90.7 | 25 | | 08/02/19 16:43 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<109** | ug/L | 364 | 109 | 25 | | 08/02/19 16:43 | 10061-02-6 | |
| Diisopropyl ether | **<47.2** | ug/L | 157 | 47.2 | 25 | | 08/02/19 16:43 | 108-20-3 | |
| Ethylbenzene | **3550** | ug/L | 25.0 | 5.5 | 25 | | 08/02/19 16:43 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<29.6** | ug/L | 125 | 29.6 | 25 | | 08/02/19 16:43 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **92.2J** | ug/L | 125 | 9.8 | 25 | | 08/02/19 16:43 | 98-82-8 | |
| p-Isopropyltoluene | **<20.0** | ug/L | 66.7 | 20.0 | 25 | | 08/02/19 16:43 | 99-87-6 | |
| Methylene Chloride | **<14.5** | ug/L | 125 | 14.5 | 25 | | 08/02/19 16:43 | 75-09-2 | |
| Methyl-tert-butyl ether | **<31.1** | ug/L | 104 | 31.1 | 25 | | 08/02/19 16:43 | 1634-04-4 | |
| Naphthalene | **645** | ug/L | 125 | 29.4 | 25 | | 08/02/19 16:43 | 91-20-3 | |
| n-Propylbenzene | **281** | ug/L | 125 | 20.3 | 25 | | 08/02/19 16:43 | 103-65-1 | |
| Styrene | **<11.6** | ug/L | 38.8 | 11.6 | 25 | | 08/02/19 16:43 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<6.7** | ug/L | 25.0 | 6.7 | 25 | | 08/02/19 16:43 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-5** **Lab ID: 40192222007** Collected: 08/01/19 11:15 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<6.9** | ug/L | 25.0 | 6.9 | 25 | | 08/02/19 16:43 | 79-34-5 | |
| Tetrachloroethene | **<8.2** | ug/L | 27.2 | 8.2 | 25 | | 08/02/19 16:43 | 127-18-4 | |
| Toluene | **160** | ug/L | 125 | 4.3 | 25 | | 08/02/19 16:43 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<15.6** | ug/L | 125 | 15.6 | 25 | | 08/02/19 16:43 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<23.8** | ug/L | 125 | 23.8 | 25 | | 08/02/19 16:43 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<6.1** | ug/L | 25.0 | 6.1 | 25 | | 08/02/19 16:43 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<13.8** | ug/L | 125 | 13.8 | 25 | | 08/02/19 16:43 | 79-00-5 | |
| Trichloroethene | **<6.4** | ug/L | 25.0 | 6.4 | 25 | | 08/02/19 16:43 | 79-01-6 | |
| Trichlorofluoromethane | **<5.4** | ug/L | 25.0 | 5.4 | 25 | | 08/02/19 16:43 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<14.8** | ug/L | 125 | 14.8 | 25 | | 08/02/19 16:43 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **1950** | ug/L | 70.0 | 21.0 | 25 | | 08/02/19 16:43 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **447** | ug/L | 72.8 | 21.8 | 25 | | 08/02/19 16:43 | 108-67-8 | |
| Vinyl chloride | **<4.4** | ug/L | 25.0 | 4.4 | 25 | | 08/02/19 16:43 | 75-01-4 | |
| m&p-Xylene | **8010** | ug/L | 50.0 | 11.6 | 25 | | 08/02/19 16:43 | 179601-23-1 | |
| o-Xylene | **424** | ug/L | 25.0 | 6.5 | 25 | | 08/02/19 16:43 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 93 | % | 70-130 | | 25 | | 08/02/19 16:43 | 460-00-4 | |
| Dibromofluoromethane (S) | 92 | % | 70-130 | | 25 | | 08/02/19 16:43 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 25 | | 08/02/19 16:43 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-4** **Lab ID: 40192222008** Collected: 08/01/19 12:55 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **25.0** | ug/L | 1.0 | 0.25 | 1 | | 08/02/19 16:20 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 16:20 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 08/02/19 16:20 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 08/02/19 16:20 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 08/02/19 16:20 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 08/02/19 16:20 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 16:20 | 104-51-8 | |
| sec-Butylbenzene | **13.0** | ug/L | 5.0 | 0.85 | 1 | | 08/02/19 16:20 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 08/02/19 16:20 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 16:20 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 16:20 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 16:20 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 16:20 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 08/02/19 16:20 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 08/02/19 16:20 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 08/02/19 16:20 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 08/02/19 16:20 | 96-12-8 | L2 |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 08/02/19 16:20 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 16:20 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 16:20 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 16:20 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 08/02/19 16:20 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 16:20 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 08/02/19 16:20 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 16:20 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 16:20 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 16:20 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 16:20 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 08/02/19 16:20 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 16:20 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 16:20 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 08/02/19 16:20 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 08/02/19 16:20 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 08/02/19 16:20 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 08/02/19 16:20 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 08/02/19 16:20 | 108-20-3 | |
| Ethylbenzene | **758** | ug/L | 10.0 | 2.2 | 10 | | 08/05/19 08:32 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 16:20 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **65.6** | ug/L | 5.0 | 0.39 | 1 | | 08/02/19 16:20 | 98-82-8 | |
| p-Isopropyltoluene | **8.0** | ug/L | 2.7 | 0.80 | 1 | | 08/02/19 16:20 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 08/02/19 16:20 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 08/02/19 16:20 | 1634-04-4 | |
| Naphthalene | **141** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 16:20 | 91-20-3 | |
| n-Propylbenzene | **192** | ug/L | 5.0 | 0.81 | 1 | | 08/02/19 16:20 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 08/02/19 16:20 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 16:20 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-4** **Lab ID: 40192222008** Collected: 08/01/19 12:55 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 16:20 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 08/02/19 16:20 | 127-18-4 | |
| Toluene | **20.2** | ug/L | 5.0 | 0.17 | 1 | | 08/02/19 16:20 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 08/02/19 16:20 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 08/02/19 16:20 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 16:20 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 08/02/19 16:20 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 16:20 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/02/19 16:20 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 08/02/19 16:20 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **852** | ug/L | 28.0 | 8.4 | 10 | | 08/05/19 08:32 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **217** | ug/L | 2.9 | 0.87 | 1 | | 08/02/19 16:20 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 16:20 | 75-01-4 | |
| m&p-Xylene | **1270** | ug/L | 20.0 | 4.7 | 10 | | 08/05/19 08:32 | 179601-23-1 | |
| o-Xylene | **30.0** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 16:20 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 92 | % | 70-130 | | 1 | | 08/02/19 16:20 | 460-00-4 | |
| Dibromofluoromethane (S) | 90 | % | 70-130 | | 1 | | 08/02/19 16:20 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 08/02/19 16:20 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-3** **Lab ID: 40192222009** Collected: 08/01/19 13:20 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 08/02/19 15:58 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 15:58 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 08/02/19 15:58 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 08/02/19 15:58 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 08/02/19 15:58 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 08/02/19 15:58 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 15:58 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 08/02/19 15:58 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 08/02/19 15:58 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 15:58 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 15:58 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 15:58 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 15:58 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 08/02/19 15:58 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 08/02/19 15:58 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 08/02/19 15:58 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 08/02/19 15:58 | 96-12-8 | L2 |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 08/02/19 15:58 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 15:58 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 15:58 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 15:58 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 08/02/19 15:58 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 15:58 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 08/02/19 15:58 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 15:58 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 15:58 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 15:58 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 15:58 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 08/02/19 15:58 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 15:58 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 15:58 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 08/02/19 15:58 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 08/02/19 15:58 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 08/02/19 15:58 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 08/02/19 15:58 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 08/02/19 15:58 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 08/02/19 15:58 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 15:58 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 08/02/19 15:58 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 08/02/19 15:58 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 08/02/19 15:58 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 08/02/19 15:58 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 15:58 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 08/02/19 15:58 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 08/02/19 15:58 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 15:58 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-3** **Lab ID: 40192222009** Collected: 08/01/19 13:20 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 15:58 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 08/02/19 15:58 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 08/02/19 15:58 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 08/02/19 15:58 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 08/02/19 15:58 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 15:58 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 08/02/19 15:58 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 15:58 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/02/19 15:58 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 08/02/19 15:58 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 08/02/19 15:58 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 08/02/19 15:58 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 15:58 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 08/02/19 15:58 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 15:58 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 84 | % | 70-130 | | 1 | | 08/02/19 15:58 | 460-00-4 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | | 1 | | 08/02/19 15:58 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | % | 70-130 | | 1 | | 08/02/19 15:58 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-2** **Lab ID: 40192222010** Collected: 08/01/19 10:45 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **26.1** | ug/L | 1.0 | 0.25 | 1 | | 08/05/19 08:44 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/05/19 08:44 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 08/05/19 08:44 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 08/05/19 08:44 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 08/05/19 08:44 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 08/05/19 08:44 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/05/19 08:44 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 08/05/19 08:44 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 08/05/19 08:44 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/05/19 08:44 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/05/19 08:44 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/05/19 08:44 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/05/19 08:44 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 08/05/19 08:44 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 08/05/19 08:44 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 08/05/19 08:44 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 08/05/19 08:44 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 08/05/19 08:44 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/05/19 08:44 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/05/19 08:44 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/05/19 08:44 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 08/05/19 08:44 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/05/19 08:44 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 08/05/19 08:44 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/05/19 08:44 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/05/19 08:44 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/05/19 08:44 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/05/19 08:44 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 08/05/19 08:44 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/05/19 08:44 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/05/19 08:44 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 08/05/19 08:44 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 08/05/19 08:44 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 08/05/19 08:44 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 08/05/19 08:44 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 08/05/19 08:44 | 108-20-3 | |
| Ethylbenzene | **169** | ug/L | 1.0 | 0.22 | 1 | | 08/05/19 08:44 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/05/19 08:44 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **6.4** | ug/L | 5.0 | 0.39 | 1 | | 08/05/19 08:44 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 08/05/19 08:44 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 08/05/19 08:44 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 08/05/19 08:44 | 1634-04-4 | |
| Naphthalene | **30.2** | ug/L | 5.0 | 1.2 | 1 | | 08/05/19 08:44 | 91-20-3 | |
| n-Propylbenzene | **14.3** | ug/L | 5.0 | 0.81 | 1 | | 08/05/19 08:44 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 08/05/19 08:44 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/05/19 08:44 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-2** **Lab ID: 40192222010** Collected: 08/01/19 10:45 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/05/19 08:44 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 08/05/19 08:44 | 127-18-4 | |
| Toluene | **351** | ug/L | 50.0 | 1.7 | 10 | | 08/05/19 11:21 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 08/05/19 08:44 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 08/05/19 08:44 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/05/19 08:44 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 08/05/19 08:44 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/05/19 08:44 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/05/19 08:44 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 08/05/19 08:44 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **92.5** | ug/L | 2.8 | 0.84 | 1 | | 08/05/19 08:44 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **20.8** | ug/L | 2.9 | 0.87 | 1 | | 08/05/19 08:44 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/05/19 08:44 | 75-01-4 | |
| m&p-Xylene | **410** | ug/L | 2.0 | 0.47 | 1 | | 08/05/19 08:44 | 179601-23-1 | |
| o-Xylene | **144** | ug/L | 1.0 | 0.26 | 1 | | 08/05/19 08:44 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 104 | % | 70-130 | | 1 | | 08/05/19 08:44 | 460-00-4 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | | 1 | | 08/05/19 08:44 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | % | 70-130 | | 1 | | 08/05/19 08:44 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-1** **Lab ID: 40192222011** Collected: 08/01/19 10:16 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 08/05/19 12:05 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/05/19 12:05 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 08/05/19 12:05 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 08/05/19 12:05 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 08/05/19 12:05 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 08/05/19 12:05 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/05/19 12:05 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 08/05/19 12:05 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 08/05/19 12:05 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/05/19 12:05 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/05/19 12:05 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/05/19 12:05 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/05/19 12:05 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 08/05/19 12:05 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 08/05/19 12:05 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 08/05/19 12:05 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 08/05/19 12:05 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 08/05/19 12:05 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/05/19 12:05 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/05/19 12:05 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/05/19 12:05 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 08/05/19 12:05 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/05/19 12:05 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 08/05/19 12:05 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/05/19 12:05 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/05/19 12:05 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/05/19 12:05 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/05/19 12:05 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 08/05/19 12:05 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/05/19 12:05 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/05/19 12:05 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 08/05/19 12:05 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 08/05/19 12:05 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 08/05/19 12:05 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 08/05/19 12:05 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 08/05/19 12:05 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 08/05/19 12:05 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/05/19 12:05 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 08/05/19 12:05 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 08/05/19 12:05 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 08/05/19 12:05 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 08/05/19 12:05 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/05/19 12:05 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 08/05/19 12:05 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 08/05/19 12:05 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/05/19 12:05 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: MW-1** **Lab ID: 40192222011** Collected: 08/01/19 10:16 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/05/19 12:05 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 08/05/19 12:05 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 08/05/19 12:05 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 08/05/19 12:05 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 08/05/19 12:05 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/05/19 12:05 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 08/05/19 12:05 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/05/19 12:05 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/05/19 12:05 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 08/05/19 12:05 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 08/05/19 12:05 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 08/05/19 12:05 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/05/19 12:05 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 08/05/19 12:05 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/05/19 12:05 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 96 | % | 70-130 | | 1 | | 08/05/19 12:05 | 460-00-4 | |
| Dibromofluoromethane (S) | 107 | % | 70-130 | | 1 | | 08/05/19 12:05 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | % | 70-130 | | 1 | | 08/05/19 12:05 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
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## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: DUPLICATE (MW-5)** **Lab ID: 40192222012** Collected: 08/01/19 11:15 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **27.4J** | ug/L | 50.0 | 12.3 | 50 | | 08/02/19 17:08 | 71-43-2 | |
| Bromobenzene | **<12.1** | ug/L | 50.0 | 12.1 | 50 | | 08/02/19 17:08 | 108-86-1 | |
| Bromochloromethane | **<18.1** | ug/L | 250 | 18.1 | 50 | | 08/02/19 17:08 | 74-97-5 | |
| Bromodichloromethane | **<18.2** | ug/L | 60.6 | 18.2 | 50 | | 08/02/19 17:08 | 75-27-4 | |
| Bromoform | **<199** | ug/L | 662 | 199 | 50 | | 08/02/19 17:08 | 75-25-2 | |
| Bromomethane | **<48.6** | ug/L | 250 | 48.6 | 50 | | 08/02/19 17:08 | 74-83-9 | |
| n-Butylbenzene | **<35.4** | ug/L | 118 | 35.4 | 50 | | 08/02/19 17:08 | 104-51-8 | |
| sec-Butylbenzene | **<42.4** | ug/L | 250 | 42.4 | 50 | | 08/02/19 17:08 | 135-98-8 | |
| tert-Butylbenzene | **<15.2** | ug/L | 50.6 | 15.2 | 50 | | 08/02/19 17:08 | 98-06-6 | |
| Carbon tetrachloride | **<8.3** | ug/L | 50.0 | 8.3 | 50 | | 08/02/19 17:08 | 56-23-5 | |
| Chlorobenzene | **<35.5** | ug/L | 118 | 35.5 | 50 | | 08/02/19 17:08 | 108-90-7 | |
| Chloroethane | **<67.1** | ug/L | 250 | 67.1 | 50 | | 08/02/19 17:08 | 75-00-3 | |
| Chloroform | **<63.7** | ug/L | 250 | 63.7 | 50 | | 08/02/19 17:08 | 67-66-3 | |
| Chloromethane | **<109** | ug/L | 365 | 109 | 50 | | 08/02/19 17:08 | 74-87-3 | |
| 2-Chlorotoluene | **<46.3** | ug/L | 250 | 46.3 | 50 | | 08/02/19 17:08 | 95-49-8 | |
| 4-Chlorotoluene | **<37.8** | ug/L | 126 | 37.8 | 50 | | 08/02/19 17:08 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<88.2** | ug/L | 294 | 88.2 | 50 | | 08/02/19 17:08 | 96-12-8 | |
| Dibromochloromethane | **<130** | ug/L | 434 | 130 | 50 | | 08/02/19 17:08 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<41.5** | ug/L | 138 | 41.5 | 50 | | 08/02/19 17:08 | 106-93-4 | |
| Dibromomethane | **<46.8** | ug/L | 156 | 46.8 | 50 | | 08/02/19 17:08 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<35.3** | ug/L | 118 | 35.3 | 50 | | 08/02/19 17:08 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<31.4** | ug/L | 105 | 31.4 | 50 | | 08/02/19 17:08 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<47.2** | ug/L | 157 | 47.2 | 50 | | 08/02/19 17:08 | 106-46-7 | |
| Dichlorodifluoromethane | **<25.0** | ug/L | 250 | 25.0 | 50 | | 08/02/19 17:08 | 75-71-8 | |
| 1,1-Dichloroethane | **<13.6** | ug/L | 50.0 | 13.6 | 50 | | 08/02/19 17:08 | 75-34-3 | |
| 1,2-Dichloroethane | **<14.0** | ug/L | 50.0 | 14.0 | 50 | | 08/02/19 17:08 | 107-06-2 | |
| 1,1-Dichloroethene | **<12.2** | ug/L | 50.0 | 12.2 | 50 | | 08/02/19 17:08 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<13.6** | ug/L | 50.0 | 13.6 | 50 | | 08/02/19 17:08 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<54.5** | ug/L | 182 | 54.5 | 50 | | 08/02/19 17:08 | 156-60-5 | |
| 1,2-Dichloropropane | **<14.1** | ug/L | 50.0 | 14.1 | 50 | | 08/02/19 17:08 | 78-87-5 | |
| 1,3-Dichloropropane | **<41.3** | ug/L | 138 | 41.3 | 50 | | 08/02/19 17:08 | 142-28-9 | |
| 2,2-Dichloropropane | **<113** | ug/L | 378 | 113 | 50 | | 08/02/19 17:08 | 594-20-7 | |
| 1,1-Dichloropropene | **<27.0** | ug/L | 90.0 | 27.0 | 50 | | 08/02/19 17:08 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<181** | ug/L | 605 | 181 | 50 | | 08/02/19 17:08 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<219** | ug/L | 728 | 219 | 50 | | 08/02/19 17:08 | 10061-02-6 | |
| Diisopropyl ether | **<94.4** | ug/L | 315 | 94.4 | 50 | | 08/02/19 17:08 | 108-20-3 | |
| Ethylbenzene | **3430** | ug/L | 50.0 | 10.9 | 50 | | 08/02/19 17:08 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<59.1** | ug/L | 250 | 59.1 | 50 | | 08/02/19 17:08 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **96.5J** | ug/L | 250 | 19.6 | 50 | | 08/02/19 17:08 | 98-82-8 | |
| p-Isopropyltoluene | **<40.0** | ug/L | 133 | 40.0 | 50 | | 08/02/19 17:08 | 99-87-6 | |
| Methylene Chloride | **<29.0** | ug/L | 250 | 29.0 | 50 | | 08/02/19 17:08 | 75-09-2 | |
| Methyl-tert-butyl ether | **<62.3** | ug/L | 208 | 62.3 | 50 | | 08/02/19 17:08 | 1634-04-4 | |
| Naphthalene | **559** | ug/L | 250 | 58.8 | 50 | | 08/02/19 17:08 | 91-20-3 | |
| n-Propylbenzene | **243J** | ug/L | 250 | 40.5 | 50 | | 08/02/19 17:08 | 103-65-1 | |
| Styrene | **<23.3** | ug/L | 77.6 | 23.3 | 50 | | 08/02/19 17:08 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<13.5** | ug/L | 50.0 | 13.5 | 50 | | 08/02/19 17:08 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: DUPLICATE (MW-5)** **Lab ID: 40192222012** Collected: 08/01/19 11:15 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<13.8** | ug/L | 50.0 | 13.8 | 50 | | 08/02/19 17:08 | 79-34-5 | |
| Tetrachloroethene | **<16.3** | ug/L | 54.4 | 16.3 | 50 | | 08/02/19 17:08 | 127-18-4 | |
| Toluene | **188J** | ug/L | 250 | 8.6 | 50 | | 08/02/19 17:08 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<31.3** | ug/L | 250 | 31.3 | 50 | | 08/02/19 17:08 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<47.6** | ug/L | 250 | 47.6 | 50 | | 08/02/19 17:08 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<12.2** | ug/L | 50.0 | 12.2 | 50 | | 08/02/19 17:08 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<27.6** | ug/L | 250 | 27.6 | 50 | | 08/02/19 17:08 | 79-00-5 | |
| Trichloroethene | **<12.8** | ug/L | 50.0 | 12.8 | 50 | | 08/02/19 17:08 | 79-01-6 | |
| Trichlorofluoromethane | **<10.7** | ug/L | 50.0 | 10.7 | 50 | | 08/02/19 17:08 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<29.5** | ug/L | 250 | 29.5 | 50 | | 08/02/19 17:08 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **1660** | ug/L | 140 | 42.0 | 50 | | 08/02/19 17:08 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **387** | ug/L | 146 | 43.7 | 50 | | 08/02/19 17:08 | 108-67-8 | |
| Vinyl chloride | **<8.7** | ug/L | 50.0 | 8.7 | 50 | | 08/02/19 17:08 | 75-01-4 | |
| m&p-Xylene | **8640** | ug/L | 100 | 23.3 | 50 | | 08/02/19 17:08 | 179601-23-1 | |
| o-Xylene | **657** | ug/L | 50.0 | 13.1 | 50 | | 08/02/19 17:08 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 92 | % | 70-130 | | 50 | | 08/02/19 17:08 | 460-00-4 | |
| Dibromofluoromethane (S) | 96 | % | 70-130 | | 50 | | 08/02/19 17:08 | 1868-53-7 | |
| Toluene-d8 (S) | 90 | % | 70-130 | | 50 | | 08/02/19 17:08 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: TRIP BLANK** **Lab ID: 40192222013** Collected: 08/01/19 09:45 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 08/02/19 13:35 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 13:35 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 08/02/19 13:35 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 08/02/19 13:35 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 08/02/19 13:35 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 08/02/19 13:35 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 13:35 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 08/02/19 13:35 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 08/02/19 13:35 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 13:35 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 13:35 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 13:35 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 08/02/19 13:35 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 08/02/19 13:35 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 08/02/19 13:35 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 08/02/19 13:35 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 08/02/19 13:35 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 08/02/19 13:35 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 13:35 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 13:35 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 08/02/19 13:35 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 08/02/19 13:35 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 08/02/19 13:35 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 08/02/19 13:35 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 13:35 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 13:35 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 13:35 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 13:35 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 08/02/19 13:35 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 13:35 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 08/02/19 13:35 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 08/02/19 13:35 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 08/02/19 13:35 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 08/02/19 13:35 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 08/02/19 13:35 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 08/02/19 13:35 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 08/02/19 13:35 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 13:35 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 08/02/19 13:35 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 08/02/19 13:35 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 08/02/19 13:35 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 08/02/19 13:35 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 08/02/19 13:35 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 08/02/19 13:35 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 08/02/19 13:35 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 08/02/19 13:35 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

**Sample: TRIP BLANK** **Lab ID: 40192222013** Collected: 08/01/19 09:45 Received: 08/01/19 14:40 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 08/02/19 13:35 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 08/02/19 13:35 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 08/02/19 13:35 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 08/02/19 13:35 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 08/02/19 13:35 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/02/19 13:35 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 08/02/19 13:35 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 13:35 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/02/19 13:35 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 08/02/19 13:35 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 08/02/19 13:35 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 08/02/19 13:35 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/02/19 13:35 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 08/02/19 13:35 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/02/19 13:35 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 89 | % | 70-130 | | 1 | | 08/02/19 13:35 | 460-00-4 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | | 1 | | 08/02/19 13:35 | 1868-53-7 | |
| Toluene-d8 (S) | 89 | % | 70-130 | | 1 | | 08/02/19 13:35 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

QC Batch: 329444 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40192222010, 40192222011

METHOD BLANK: 1911602 Matrix: Water
Associated Lab Samples: 40192222010, 40192222011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.27 | 1.0 | 08/02/19 08:01 | |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 08/02/19 08:01 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 1.0 | 08/02/19 08:01 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 5.0 | 08/02/19 08:01 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 1.0 | 08/02/19 08:01 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 1.0 | 08/02/19 08:01 | |
| 1,1-Dichloropropene | ug/L | <0.54 | 1.8 | 08/02/19 08:01 | |
| 1,2,3-Trichlorobenzene | ug/L | <0.63 | 5.0 | 08/02/19 08:01 | |
| 1,2,3-Trichloropropane | ug/L | <0.59 | 5.0 | 08/02/19 08:01 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 5.0 | 08/02/19 08:01 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.84 | 2.8 | 08/02/19 08:01 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 5.9 | 08/02/19 08:01 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 2.8 | 08/02/19 08:01 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 2.4 | 08/02/19 08:01 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 08/02/19 08:01 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 1.0 | 08/02/19 08:01 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.87 | 2.9 | 08/02/19 08:01 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 2.1 | 08/02/19 08:01 | |
| 1,3-Dichloropropane | ug/L | <0.83 | 2.8 | 08/02/19 08:01 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 3.1 | 08/02/19 08:01 | |
| 2,2-Dichloropropane | ug/L | <2.3 | 7.6 | 08/02/19 08:01 | |
| 2-Chlorotoluene | ug/L | <0.93 | 5.0 | 08/02/19 08:01 | |
| 4-Chlorotoluene | ug/L | <0.76 | 2.5 | 08/02/19 08:01 | |
| Benzene | ug/L | <0.25 | 1.0 | 08/02/19 08:01 | |
| Bromobenzene | ug/L | <0.24 | 1.0 | 08/02/19 08:01 | |
| Bromochloromethane | ug/L | <0.36 | 5.0 | 08/02/19 08:01 | |
| Bromodichloromethane | ug/L | <0.36 | 1.2 | 08/02/19 08:01 | |
| Bromoform | ug/L | <4.0 | 13.2 | 08/02/19 08:01 | |
| Bromomethane | ug/L | <0.97 | 5.0 | 08/02/19 08:01 | |
| Carbon tetrachloride | ug/L | <0.17 | 1.0 | 08/02/19 08:01 | |
| Chlorobenzene | ug/L | <0.71 | 2.4 | 08/02/19 08:01 | |
| Chloroethane | ug/L | <1.3 | 5.0 | 08/02/19 08:01 | |
| Chloroform | ug/L | <1.3 | 5.0 | 08/02/19 08:01 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 08/02/19 08:01 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 1.0 | 08/02/19 08:01 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 12.1 | 08/02/19 08:01 | |
| Dibromochloromethane | ug/L | <2.6 | 8.7 | 08/02/19 08:01 | |
| Dibromomethane | ug/L | <0.94 | 3.1 | 08/02/19 08:01 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 5.0 | 08/02/19 08:01 | |
| Diisopropyl ether | ug/L | <1.9 | 6.3 | 08/02/19 08:01 | |
| Ethylbenzene | ug/L | <0.22 | 1.0 | 08/02/19 08:01 | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

METHOD BLANK: 1911602 Matrix: Water
Associated Lab Samples: 40192222010, 40192222011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | ug/L | <1.2 | 5.0 | 08/02/19 08:01 | |
| Isopropylbenzene (Cumene) | ug/L | <0.39 | 5.0 | 08/02/19 08:01 | |
| m&p-Xylene | ug/L | <0.47 | 2.0 | 08/02/19 08:01 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 4.2 | 08/02/19 08:01 | |
| Methylene Chloride | ug/L | <0.58 | 5.0 | 08/02/19 08:01 | |
| n-Butylbenzene | ug/L | <0.71 | 2.4 | 08/02/19 08:01 | |
| n-Propylbenzene | ug/L | <0.81 | 5.0 | 08/02/19 08:01 | |
| Naphthalene | ug/L | <1.2 | 5.0 | 08/02/19 08:01 | |
| o-Xylene | ug/L | <0.26 | 1.0 | 08/02/19 08:01 | |
| p-Isopropyltoluene | ug/L | <0.80 | 2.7 | 08/02/19 08:01 | |
| sec-Butylbenzene | ug/L | <0.85 | 5.0 | 08/02/19 08:01 | |
| Styrene | ug/L | <0.47 | 1.6 | 08/02/19 08:01 | |
| tert-Butylbenzene | ug/L | <0.30 | 1.0 | 08/02/19 08:01 | |
| Tetrachloroethene | ug/L | <0.33 | 1.1 | 08/02/19 08:01 | |
| Toluene | ug/L | <0.17 | 5.0 | 08/02/19 08:01 | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 3.6 | 08/02/19 08:01 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 14.6 | 08/02/19 08:01 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 08/02/19 08:01 | |
| Trichlorofluoromethane | ug/L | <0.21 | 1.0 | 08/02/19 08:01 | |
| Vinyl chloride | ug/L | <0.17 | 1.0 | 08/02/19 08:01 | |
| 4-Bromofluorobenzene (S) | % | 91 | 70-130 | 08/02/19 08:01 | |
| Dibromofluoromethane (S) | % | 104 | 70-130 | 08/02/19 08:01 | |
| Toluene-d8 (S) | % | 96 | 70-130 | 08/02/19 08:01 | |

LABORATORY CONTROL SAMPLE: 1911603

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ug/L | 50 | 62.7 | 125 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 56.5 | 113 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 54.9 | 110 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 50.5 | 101 | 73-150 | |
| 1,1-Dichloroethene | ug/L | 50 | 55.6 | 111 | 73-138 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 58.5 | 117 | 70-130 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 55.3 | 111 | 64-129 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 54.5 | 109 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 54.1 | 108 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 56.8 | 114 | 75-140 | |
| 1,2-Dichloropropane | ug/L | 50 | 50.2 | 100 | 73-135 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 53.6 | 107 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 54.6 | 109 | 70-130 | |
| Benzene | ug/L | 50 | 58.6 | 117 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 57.6 | 115 | 70-130 | |
| Bromoform | ug/L | 50 | 55.6 | 111 | 68-129 | |
| Bromomethane | ug/L | 50 | 36.8 | 74 | 18-159 | |

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## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

LABORATORY CONTROL SAMPLE: 1911603

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Carbon tetrachloride | ug/L | 50 | 65.0 | 130 | 70-130 | |
| Chlorobenzene | ug/L | 50 | 55.7 | 111 | 70-130 | |
| Chloroethane | ug/L | 50 | 50.1 | 100 | 53-147 | |
| Chloroform | ug/L | 50 | 58.1 | 116 | 74-136 | |
| Chloromethane | ug/L | 50 | 40.3 | 81 | 29-115 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 52.5 | 105 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 61.9 | 124 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 52.5 | 105 | 70-130 | |
| Dichlorodifluoromethane | ug/L | 50 | 45.1 | 90 | 10-130 | |
| Ethylbenzene | ug/L | 50 | 58.5 | 117 | 80-124 | |
| Isopropylbenzene (Cumene) | ug/L | 50 | 61.6 | 123 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 120 | 120 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 59.2 | 118 | 54-137 | |
| Methylene Chloride | ug/L | 50 | 52.3 | 105 | 73-138 | |
| o-Xylene | ug/L | 50 | 58.4 | 117 | 70-130 | |
| Styrene | ug/L | 50 | 59.3 | 119 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 59.8 | 120 | 70-130 | |
| Toluene | ug/L | 50 | 58.7 | 117 | 80-126 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 57.4 | 115 | 73-145 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 55.4 | 111 | 70-130 | |
| Trichloroethene | ug/L | 50 | 58.7 | 117 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 60.5 | 121 | 76-147 | |
| Vinyl chloride | ug/L | 50 | 48.8 | 98 | 51-120 | |
| 4-Bromofluorobenzene (S) | % | | | 102 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 100 | 70-130 | |
| Toluene-d8 (S) | % | | | 100 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1911830 1911831

| Parameter | Units | 40192195001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ug/L | <0.24 | 50 | 50 | 47.0 | 40.4 | 94 | 81 | 70-130 | 15 | 20 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 50 | 50 | 45.9 | 37.6 | 92 | 75 | 70-130 | 20 | 20 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 50 | 50 | 40.6 | 37.4 | 81 | 75 | 70-137 | 8 | 20 | |
| 1,1-Dichloroethane | ug/L | 0.31J | 50 | 50 | 39.4 | 31.2 | 78 | 62 | 73-153 | 23 | 20 | M1,R1 |
| 1,1-Dichloroethene | ug/L | <0.24 | 50 | 50 | 41.5 | 36.3 | 83 | 73 | 73-138 | 14 | 20 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 50 | 50 | 46.5 | 40.1 | 93 | 80 | 70-130 | 15 | 20 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 50 | 50 | 42.7 | 36.6 | 85 | 73 | 58-129 | 15 | 20 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 50 | 50 | 41.4 | 37.1 | 83 | 74 | 70-130 | 11 | 20 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 50 | 50 | 43.2 | 36.1 | 86 | 72 | 70-130 | 18 | 20 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 50 | 50 | 42.5 | 35.4 | 85 | 71 | 75-140 | 18 | 20 | M1 |
| 1,2-Dichloropropane | ug/L | <0.28 | 50 | 50 | 38.3 | 31.2 | 77 | 62 | 71-138 | 20 | 20 | M1 |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 50 | 50 | 41.7 | 36.0 | 83 | 72 | 70-130 | 15 | 20 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 50 | 50 | 42.8 | 35.7 | 86 | 71 | 70-130 | 18 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1911830 1911831

| Parameter | Units | 40192195001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ug/L | <0.25 | 50 | 50 | 43.9 | 36.0 | 88 | 72 | 70-130 | 20 | 20 | |
| Bromodichloromethane | ug/L | <0.36 | 50 | 50 | 44.0 | 41.5 | 88 | 83 | 70-130 | 6 | 20 | |
| Bromoform | ug/L | <4.0 | 50 | 50 | 41.9 | 36.6 | 84 | 73 | 68-129 | 14 | 20 | |
| Bromomethane | ug/L | <0.97 | 50 | 50 | 34.0 | 28.8 | 68 | 58 | 15-170 | 17 | 20 | |
| Carbon tetrachloride | ug/L | <0.17 | 50 | 50 | 49.9 | 42.1 | 100 | 84 | 70-130 | 17 | 20 | |
| Chlorobenzene | ug/L | <0.71 | 50 | 50 | 42.0 | 38.3 | 84 | 77 | 70-130 | 9 | 20 | |
| Chloroethane | ug/L | <1.3 | 50 | 50 | 39.8 | 35.4 | 78 | 70 | 51-148 | 12 | 20 | |
| Chloroform | ug/L | <1.3 | 50 | 50 | 44.1 | 36.5 | 88 | 73 | 74-136 | 19 | 20 | M1 |
| Chloromethane | ug/L | <2.2 | 50 | 50 | 30.2 | 26.6 | 60 | 53 | 23-115 | 13 | 20 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 50 | 50 | 43.3 | 33.8 | 87 | 68 | 70-131 | 25 | 20 | M1,R1 |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 50 | 50 | 46.4 | 41.3 | 93 | 83 | 70-130 | 12 | 20 | |
| Dibromochloromethane | ug/L | <2.6 | 50 | 50 | 40.6 | 35.7 | 81 | 71 | 70-130 | 13 | 20 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 50 | 50 | 35.5 | 30.5 | 71 | 61 | 10-132 | 15 | 20 | |
| Ethylbenzene | ug/L | <0.22 | 50 | 50 | 43.7 | 39.0 | 87 | 78 | 80-125 | 11 | 20 | M1 |
| Isopropylbenzene (Cumene) | ug/L | <0.39 | 50 | 50 | 45.8 | 40.6 | 92 | 81 | 70-130 | 12 | 20 | |
| m&p-Xylene | ug/L | <0.47 | 100 | 100 | 88.4 | 80.0 | 88 | 80 | 70-130 | 10 | 20 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 50 | 50 | 44.5 | 36.5 | 89 | 73 | 51-145 | 20 | 20 | |
| Methylene Chloride | ug/L | <0.58 | 50 | 50 | 39.4 | 34.6 | 79 | 69 | 73-140 | 13 | 20 | M1 |
| o-Xylene | ug/L | <0.26 | 50 | 50 | 42.4 | 37.2 | 85 | 74 | 70-130 | 13 | 20 | |
| Styrene | ug/L | <0.47 | 50 | 50 | 44.0 | 39.1 | 88 | 78 | 70-130 | 12 | 20 | |
| Tetrachloroethene | ug/L | <0.33 | 50 | 50 | 45.9 | 41.2 | 92 | 82 | 70-130 | 11 | 20 | |
| Toluene | ug/L | <0.17 | 50 | 50 | 45.0 | 40.0 | 90 | 80 | 80-131 | 12 | 20 | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 50 | 50 | 43.7 | 37.4 | 87 | 75 | 73-148 | 16 | 20 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 50 | 50 | 41.6 | 36.4 | 83 | 73 | 70-130 | 13 | 20 | |
| Trichloroethene | ug/L | <0.26 | 50 | 50 | 44.2 | 37.8 | 88 | 76 | 70-130 | 16 | 20 | |
| Trichlorofluoromethane | ug/L | <0.21 | 50 | 50 | 44.3 | 40.1 | 89 | 80 | 74-147 | 10 | 20 | |
| Vinyl chloride | ug/L | <0.17 | 50 | 50 | 38.7 | 32.4 | 77 | 65 | 41-129 | 18 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 100 | 101 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 96 | 94 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | | 100 | 100 | 70-130 | | | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

QC Batch: 329445 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40192222001, 40192222002, 40192222003, 40192222004, 40192222005, 40192222006, 40192222007, 40192222008, 40192222009

METHOD BLANK: 1911604 Matrix: Water
Associated Lab Samples: 40192222001, 40192222002, 40192222003, 40192222004, 40192222005, 40192222006, 40192222007, 40192222008, 40192222009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.27 | 1.0 | 08/02/19 08:05 | |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 08/02/19 08:05 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 1.0 | 08/02/19 08:05 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 5.0 | 08/02/19 08:05 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 1.0 | 08/02/19 08:05 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 1.0 | 08/02/19 08:05 | |
| 1,1-Dichloropropene | ug/L | <0.54 | 1.8 | 08/02/19 08:05 | |
| 1,2,3-Trichlorobenzene | ug/L | <0.63 | 5.0 | 08/02/19 08:05 | |
| 1,2,3-Trichloropropane | ug/L | <0.59 | 5.0 | 08/02/19 08:05 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 5.0 | 08/02/19 08:05 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.84 | 2.8 | 08/02/19 08:05 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 5.9 | 08/02/19 08:05 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 2.8 | 08/02/19 08:05 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 2.4 | 08/02/19 08:05 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 08/02/19 08:05 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 1.0 | 08/02/19 08:05 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.87 | 2.9 | 08/02/19 08:05 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 2.1 | 08/02/19 08:05 | |
| 1,3-Dichloropropane | ug/L | <0.83 | 2.8 | 08/02/19 08:05 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 3.1 | 08/02/19 08:05 | |
| 2,2-Dichloropropane | ug/L | <2.3 | 7.6 | 08/02/19 08:05 | |
| 2-Chlorotoluene | ug/L | <0.93 | 5.0 | 08/02/19 08:05 | |
| 4-Chlorotoluene | ug/L | <0.76 | 2.5 | 08/02/19 08:05 | |
| Benzene | ug/L | <0.25 | 1.0 | 08/02/19 08:05 | |
| Bromobenzene | ug/L | <0.24 | 1.0 | 08/02/19 08:05 | |
| Bromochloromethane | ug/L | <0.36 | 5.0 | 08/02/19 08:05 | |
| Bromodichloromethane | ug/L | <0.36 | 1.2 | 08/02/19 08:05 | |
| Bromoform | ug/L | <4.0 | 13.2 | 08/02/19 08:05 | |
| Bromomethane | ug/L | <0.97 | 5.0 | 08/02/19 08:05 | |
| Carbon tetrachloride | ug/L | <0.17 | 1.0 | 08/02/19 08:05 | |
| Chlorobenzene | ug/L | <0.71 | 2.4 | 08/02/19 08:05 | |
| Chloroethane | ug/L | <1.3 | 5.0 | 08/02/19 08:05 | |
| Chloroform | ug/L | <1.3 | 5.0 | 08/02/19 08:05 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 08/02/19 08:05 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 1.0 | 08/02/19 08:05 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 12.1 | 08/02/19 08:05 | |
| Dibromochloromethane | ug/L | <2.6 | 8.7 | 08/02/19 08:05 | |
| Dibromomethane | ug/L | <0.94 | 3.1 | 08/02/19 08:05 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 5.0 | 08/02/19 08:05 | |
| Diisopropyl ether | ug/L | <1.9 | 6.3 | 08/02/19 08:05 | |

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## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

METHOD BLANK: 1911604 Matrix: Water

Associated Lab Samples: 40192222001, 40192222002, 40192222003, 40192222004, 40192222005, 40192222006, 40192222007, 40192222008, 40192222009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Ethylbenzene | ug/L | <0.22 | 1.0 | 08/02/19 08:05 | |
| Hexachloro-1,3-butadiene | ug/L | 1.4J | 5.0 | 08/02/19 08:05 | |
| Isopropylbenzene (Cumene) | ug/L | <0.39 | 5.0 | 08/02/19 08:05 | |
| m&p-Xylene | ug/L | <0.47 | 2.0 | 08/02/19 08:05 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 4.2 | 08/02/19 08:05 | |
| Methylene Chloride | ug/L | <0.58 | 5.0 | 08/02/19 08:05 | |
| n-Butylbenzene | ug/L | <0.71 | 2.4 | 08/02/19 08:05 | |
| n-Propylbenzene | ug/L | <0.81 | 5.0 | 08/02/19 08:05 | |
| Naphthalene | ug/L | <1.2 | 5.0 | 08/02/19 08:05 | |
| o-Xylene | ug/L | <0.26 | 1.0 | 08/02/19 08:05 | |
| p-Isopropyltoluene | ug/L | <0.80 | 2.7 | 08/02/19 08:05 | |
| sec-Butylbenzene | ug/L | <0.85 | 5.0 | 08/02/19 08:05 | |
| Styrene | ug/L | <0.47 | 1.6 | 08/02/19 08:05 | |
| tert-Butylbenzene | ug/L | <0.30 | 1.0 | 08/02/19 08:05 | |
| Tetrachloroethene | ug/L | <0.33 | 1.1 | 08/02/19 08:05 | |
| Toluene | ug/L | <0.17 | 5.0 | 08/02/19 08:05 | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 3.6 | 08/02/19 08:05 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 14.6 | 08/02/19 08:05 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 08/02/19 08:05 | |
| Trichlorofluoromethane | ug/L | <0.21 | 1.0 | 08/02/19 08:05 | |
| Vinyl chloride | ug/L | <0.17 | 1.0 | 08/02/19 08:05 | |
| 4-Bromofluorobenzene (S) | % | 84 | 70-130 | 08/02/19 08:05 | |
| Dibromofluoromethane (S) | % | 99 | 70-130 | 08/02/19 08:05 | |
| Toluene-d8 (S) | % | 97 | 70-130 | 08/02/19 08:05 | |

LABORATORY CONTROL SAMPLE: 1911605

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ug/L | 50 | 40.7 | 81 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 40.0 | 80 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 46.5 | 93 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 38.8 | 78 | 73-150 | |
| 1,1-Dichloroethene | ug/L | 50 | 39.5 | 79 | 73-138 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 40.1 | 80 | 70-130 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 30.4 | 61 | 64-129 | L2 |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 44.1 | 88 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 44.5 | 89 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 40.6 | 81 | 75-140 | |
| 1,2-Dichloropropane | ug/L | 50 | 49.5 | 99 | 73-135 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 43.8 | 88 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 46.9 | 94 | 70-130 | |
| Benzene | ug/L | 50 | 43.4 | 87 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 44.2 | 88 | 70-130 | |

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## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

LABORATORY CONTROL SAMPLE: 1911605

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Bromoform | ug/L | 50 | 40.7 | 81 | 68-129 | |
| Bromomethane | ug/L | 50 | 30.1 | 60 | 18-159 | |
| Carbon tetrachloride | ug/L | 50 | 43.4 | 87 | 70-130 | |
| Chlorobenzene | ug/L | 50 | 49.9 | 100 | 70-130 | |
| Chloroethane | ug/L | 50 | 35.6 | 71 | 53-147 | |
| Chloroform | ug/L | 50 | 40.8 | 82 | 74-136 | |
| Chloromethane | ug/L | 50 | 31.2 | 62 | 29-115 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 48.6 | 97 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 38.7 | 77 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 45.4 | 91 | 70-130 | |
| Dichlorodifluoromethane | ug/L | 50 | 26.8 | 54 | 10-130 | |
| Ethylbenzene | ug/L | 50 | 48.0 | 96 | 80-124 | |
| Isopropylbenzene (Cumene) | ug/L | 50 | 47.5 | 95 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 101 | 101 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 31.9 | 64 | 54-137 | |
| Methylene Chloride | ug/L | 50 | 39.0 | 78 | 73-138 | |
| o-Xylene | ug/L | 50 | 47.1 | 94 | 70-130 | |
| Styrene | ug/L | 50 | 50.5 | 101 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 52.7 | 105 | 70-130 | |
| Toluene | ug/L | 50 | 48.6 | 97 | 80-126 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 38.9 | 78 | 73-145 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 37.4 | 75 | 70-130 | |
| Trichloroethene | ug/L | 50 | 48.1 | 96 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 42.3 | 85 | 76-147 | |
| Vinyl chloride | ug/L | 50 | 33.7 | 67 | 51-120 | |
| 4-Bromofluorobenzene (S) | % | | | 97 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 94 | 70-130 | |
| Toluene-d8 (S) | % | | | 100 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1911677 1911678

| Parameter | Units | 40192167007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ug/L | <0.24 | 50 | 50 | 44.5 | 44.9 | 89 | 90 | 70-130 | 1 | 20 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 50 | 50 | 44.0 | 44.8 | 88 | 90 | 70-130 | 2 | 20 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 50 | 50 | 50.6 | 51.2 | 101 | 102 | 70-137 | 1 | 20 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 50 | 50 | 42.3 | 42.9 | 85 | 86 | 73-153 | 1 | 20 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 50 | 50 | 43.5 | 44.1 | 87 | 88 | 73-138 | 1 | 20 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 50 | 50 | 44.8 | 46.4 | 89 | 92 | 70-130 | 3 | 20 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 50 | 50 | 35.0 | 35.6 | 70 | 71 | 58-129 | 2 | 20 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 50 | 50 | 48.8 | 49.3 | 98 | 99 | 70-130 | 1 | 20 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 50 | 50 | 48.6 | 49.8 | 97 | 100 | 70-130 | 2 | 20 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 50 | 50 | 44.2 | 44.7 | 88 | 89 | 75-140 | 1 | 20 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 50 | 50 | 54.6 | 54.4 | 109 | 109 | 71-138 | 0 | 20 | |

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## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1911677 1911678

| Parameter | Units | 40192167007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ug/L | <0.63 | 50 | 50 | 47.9 | 48.9 | 96 | 98 | 70-130 | 2 | 20 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 50 | 50 | 51.2 | 51.7 | 102 | 103 | 70-130 | 1 | 20 | |
| Benzene | ug/L | <0.25 | 50 | 50 | 47.3 | 47.9 | 95 | 96 | 70-130 | 1 | 20 | |
| Bromodichloromethane | ug/L | <0.36 | 50 | 50 | 48.6 | 49.3 | 97 | 99 | 70-130 | 2 | 20 | |
| Bromoform | ug/L | <4.0 | 50 | 50 | 44.9 | 45.4 | 90 | 91 | 68-129 | 1 | 20 | |
| Bromomethane | ug/L | <0.97 | 50 | 50 | 35.9 | 38.2 | 72 | 76 | 15-170 | 6 | 20 | |
| Carbon tetrachloride | ug/L | <0.17 | 50 | 50 | 47.7 | 48.2 | 95 | 96 | 70-130 | 1 | 20 | |
| Chlorobenzene | ug/L | <0.71 | 50 | 50 | 54.2 | 54.8 | 108 | 110 | 70-130 | 1 | 20 | |
| Chloroethane | ug/L | <1.3 | 50 | 50 | 38.9 | 39.8 | 78 | 80 | 51-148 | 2 | 20 | |
| Chloroform | ug/L | <1.3 | 50 | 50 | 44.7 | 44.9 | 89 | 90 | 74-136 | 1 | 20 | |
| Chloromethane | ug/L | <2.2 | 50 | 50 | 35.1 | 36.2 | 70 | 72 | 23-115 | 3 | 20 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 50 | 50 | 52.7 | 53.4 | 105 | 107 | 70-131 | 1 | 20 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 50 | 50 | 42.8 | 43.8 | 86 | 88 | 70-130 | 2 | 20 | |
| Dibromochloromethane | ug/L | <2.6 | 50 | 50 | 50.0 | 50.5 | 100 | 101 | 70-130 | 1 | 20 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 50 | 50 | 28.2 | 29.2 | 56 | 58 | 10-132 | 3 | 20 | |
| Ethylbenzene | ug/L | <0.22 | 50 | 50 | 52.7 | 53.2 | 105 | 106 | 80-125 | 1 | 20 | |
| Isopropylbenzene (Cumene) | ug/L | <0.39 | 50 | 50 | 51.8 | 52.5 | 104 | 105 | 70-130 | 1 | 20 | |
| m&p-Xylene | ug/L | <0.47 | 100 | 100 | 110 | 112 | 110 | 112 | 70-130 | 2 | 20 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 50 | 50 | 35.0 | 35.4 | 70 | 71 | 51-145 | 1 | 20 | |
| Methylene Chloride | ug/L | <0.58 | 50 | 50 | 42.3 | 42.8 | 85 | 86 | 73-140 | 1 | 20 | |
| o-Xylene | ug/L | <0.26 | 50 | 50 | 51.6 | 52.8 | 103 | 106 | 70-130 | 2 | 20 | |
| Styrene | ug/L | <0.47 | 50 | 50 | 54.6 | 55.2 | 109 | 110 | 70-130 | 1 | 20 | |
| Tetrachloroethene | ug/L | 0.68J | 50 | 50 | 58.1 | 58.7 | 115 | 116 | 70-130 | 1 | 20 | |
| Toluene | ug/L | <0.17 | 50 | 50 | 53.5 | 53.5 | 107 | 107 | 80-131 | 0 | 20 | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 50 | 50 | 42.7 | 43.3 | 85 | 87 | 73-148 | 1 | 20 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 50 | 50 | 41.5 | 42.1 | 83 | 84 | 70-130 | 2 | 20 | |
| Trichloroethene | ug/L | <0.26 | 50 | 50 | 52.4 | 53.3 | 105 | 107 | 70-130 | 2 | 20 | |
| Trichlorofluoromethane | ug/L | <0.21 | 50 | 50 | 46.3 | 46.9 | 92 | 94 | 74-147 | 1 | 20 | |
| Vinyl chloride | ug/L | <0.17 | 50 | 50 | 37.1 | 37.5 | 74 | 75 | 41-129 | 1 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 96 | 96 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 93 | 94 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | | 99 | 99 | 70-130 | | | |

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## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

QC Batch: 329474 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40192222012, 40192222013

METHOD BLANK: 1911691 Matrix: Water
Associated Lab Samples: 40192222012, 40192222013

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.27 | 1.0 | 08/02/19 11:13 | |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 08/02/19 11:13 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 1.0 | 08/02/19 11:13 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 5.0 | 08/02/19 11:13 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 1.0 | 08/02/19 11:13 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 1.0 | 08/02/19 11:13 | |
| 1,1-Dichloropropene | ug/L | <0.54 | 1.8 | 08/02/19 11:13 | |
| 1,2,3-Trichlorobenzene | ug/L | <0.63 | 5.0 | 08/02/19 11:13 | |
| 1,2,3-Trichloropropane | ug/L | <0.59 | 5.0 | 08/02/19 11:13 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 5.0 | 08/02/19 11:13 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.84 | 2.8 | 08/02/19 11:13 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 5.9 | 08/02/19 11:13 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 2.8 | 08/02/19 11:13 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 2.4 | 08/02/19 11:13 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 08/02/19 11:13 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 1.0 | 08/02/19 11:13 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.87 | 2.9 | 08/02/19 11:13 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 2.1 | 08/02/19 11:13 | |
| 1,3-Dichloropropane | ug/L | <0.83 | 2.8 | 08/02/19 11:13 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 3.1 | 08/02/19 11:13 | |
| 2,2-Dichloropropane | ug/L | <2.3 | 7.6 | 08/02/19 11:13 | |
| 2-Chlorotoluene | ug/L | <0.93 | 5.0 | 08/02/19 11:13 | |
| 4-Chlorotoluene | ug/L | <0.76 | 2.5 | 08/02/19 11:13 | |
| Benzene | ug/L | <0.25 | 1.0 | 08/02/19 11:13 | |
| Bromobenzene | ug/L | <0.24 | 1.0 | 08/02/19 11:13 | |
| Bromochloromethane | ug/L | <0.36 | 5.0 | 08/02/19 11:13 | |
| Bromodichloromethane | ug/L | <0.36 | 1.2 | 08/02/19 11:13 | |
| Bromoform | ug/L | <4.0 | 13.2 | 08/02/19 11:13 | |
| Bromomethane | ug/L | <0.97 | 5.0 | 08/02/19 11:13 | |
| Carbon tetrachloride | ug/L | <0.17 | 1.0 | 08/02/19 11:13 | |
| Chlorobenzene | ug/L | <0.71 | 2.4 | 08/02/19 11:13 | |
| Chloroethane | ug/L | <1.3 | 5.0 | 08/02/19 11:13 | |
| Chloroform | ug/L | <1.3 | 5.0 | 08/02/19 11:13 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 08/02/19 11:13 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 1.0 | 08/02/19 11:13 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 12.1 | 08/02/19 11:13 | |
| Dibromochloromethane | ug/L | <2.6 | 8.7 | 08/02/19 11:13 | |
| Dibromomethane | ug/L | <0.94 | 3.1 | 08/02/19 11:13 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 5.0 | 08/02/19 11:13 | |
| Diisopropyl ether | ug/L | <1.9 | 6.3 | 08/02/19 11:13 | |
| Ethylbenzene | ug/L | <0.22 | 1.0 | 08/02/19 11:13 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

METHOD BLANK: 1911691 Matrix: Water
Associated Lab Samples: 40192222012, 40192222013

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | ug/L | <1.2 | 5.0 | 08/02/19 11:13 | |
| Isopropylbenzene (Cumene) | ug/L | <0.39 | 5.0 | 08/02/19 11:13 | |
| m&p-Xylene | ug/L | <0.47 | 2.0 | 08/02/19 11:13 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 4.2 | 08/02/19 11:13 | |
| Methylene Chloride | ug/L | <0.58 | 5.0 | 08/02/19 11:13 | |
| n-Butylbenzene | ug/L | <0.71 | 2.4 | 08/02/19 11:13 | |
| n-Propylbenzene | ug/L | <0.81 | 5.0 | 08/02/19 11:13 | |
| Naphthalene | ug/L | <1.2 | 5.0 | 08/02/19 11:13 | |
| o-Xylene | ug/L | <0.26 | 1.0 | 08/02/19 11:13 | |
| p-Isopropyltoluene | ug/L | <0.80 | 2.7 | 08/02/19 11:13 | |
| sec-Butylbenzene | ug/L | <0.85 | 5.0 | 08/02/19 11:13 | |
| Styrene | ug/L | <0.47 | 1.6 | 08/02/19 11:13 | |
| tert-Butylbenzene | ug/L | <0.30 | 1.0 | 08/02/19 11:13 | |
| Tetrachloroethene | ug/L | <0.33 | 1.1 | 08/02/19 11:13 | |
| Toluene | ug/L | <0.17 | 5.0 | 08/02/19 11:13 | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 3.6 | 08/02/19 11:13 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 14.6 | 08/02/19 11:13 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 08/02/19 11:13 | |
| Trichlorofluoromethane | ug/L | <0.21 | 1.0 | 08/02/19 11:13 | |
| Vinyl chloride | ug/L | <0.17 | 1.0 | 08/02/19 11:13 | |
| 4-Bromofluorobenzene (S) | % | 90 | 70-130 | 08/02/19 11:13 | |
| Dibromofluoromethane (S) | % | 93 | 70-130 | 08/02/19 11:13 | |
| Toluene-d8 (S) | % | 88 | 70-130 | 08/02/19 11:13 | |

LABORATORY CONTROL SAMPLE: 1911692

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ug/L | 50 | 48.2 | 96 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 40.5 | 81 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 41.3 | 83 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 49.2 | 98 | 73-150 | |
| 1,1-Dichloroethene | ug/L | 50 | 47.2 | 94 | 73-138 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 43.0 | 86 | 70-130 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 37.4 | 75 | 64-129 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 47.4 | 95 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 47.1 | 94 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 43.9 | 88 | 75-140 | |
| 1,2-Dichloropropane | ug/L | 50 | 38.9 | 78 | 73-135 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 47.8 | 96 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 46.7 | 93 | 70-130 | |
| Benzene | ug/L | 50 | 38.3 | 77 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 48.2 | 96 | 70-130 | |
| Bromoform | ug/L | 50 | 55.1 | 110 | 68-129 | |
| Bromomethane | ug/L | 50 | 33.8 | 68 | 18-159 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

LABORATORY CONTROL SAMPLE: 1911692

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Carbon tetrachloride | ug/L | 50 | 55.3 | 111 | 70-130 | |
| Chlorobenzene | ug/L | 50 | 49.5 | 99 | 70-130 | |
| Chloroethane | ug/L | 50 | 40.0 | 80 | 53-147 | |
| Chloroform | ug/L | 50 | 42.8 | 86 | 74-136 | |
| Chloromethane | ug/L | 50 | 29.3 | 59 | 29-115 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 38.7 | 77 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 41.1 | 82 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 51.9 | 104 | 70-130 | |
| Dichlorodifluoromethane | ug/L | 50 | 27.9 | 56 | 10-130 | |
| Ethylbenzene | ug/L | 50 | 48.2 | 96 | 80-124 | |
| Isopropylbenzene (Cumene) | ug/L | 50 | 52.6 | 105 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 108 | 108 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 44.2 | 88 | 54-137 | |
| Methylene Chloride | ug/L | 50 | 51.1 | 102 | 73-138 | |
| o-Xylene | ug/L | 50 | 52.0 | 104 | 70-130 | |
| Styrene | ug/L | 50 | 52.1 | 104 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 55.7 | 111 | 70-130 | |
| Toluene | ug/L | 50 | 46.6 | 93 | 80-126 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 47.8 | 96 | 73-145 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 42.3 | 85 | 70-130 | |
| Trichloroethene | ug/L | 50 | 50.2 | 100 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 63.6 | 127 | 76-147 | |
| Vinyl chloride | ug/L | 50 | 34.9 | 70 | 51-120 | |
| 4-Bromofluorobenzene (S) | % | | | 95 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 94 | 70-130 | |
| Toluene-d8 (S) | % | | | 91 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1912590 1912591

| Parameter | Units | 40192210002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ug/L | <0.24 | 50 | 50 | 46.1 | 47.1 | 92 | 94 | 70-130 | 2 | 20 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 50 | 50 | 39.5 | 42.1 | 79 | 84 | 70-130 | 6 | 20 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 50 | 50 | 42.5 | 42.2 | 85 | 84 | 70-137 | 1 | 20 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 50 | 50 | 46.1 | 47.4 | 92 | 95 | 73-153 | 3 | 20 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 50 | 50 | 43.6 | 46.1 | 87 | 92 | 73-138 | 6 | 20 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 50 | 50 | 41.4 | 42.8 | 83 | 86 | 70-130 | 3 | 20 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 50 | 50 | 35.6 | 38.1 | 71 | 76 | 58-129 | 7 | 20 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 50 | 50 | 44.4 | 45.7 | 89 | 91 | 70-130 | 3 | 20 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 50 | 50 | 46.5 | 46.5 | 93 | 93 | 70-130 | 0 | 20 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 50 | 50 | 41.5 | 41.9 | 83 | 84 | 75-140 | 1 | 20 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 50 | 50 | 37.3 | 40.0 | 75 | 80 | 71-138 | 7 | 20 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 50 | 50 | 44.9 | 46.8 | 90 | 94 | 70-130 | 4 | 20 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 50 | 50 | 46.2 | 46.7 | 92 | 93 | 70-130 | 1 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1912590 1912591

| Parameter | Units | 40192210002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ug/L | <0.25 | 50 | 50 | 36.1 | 36.3 | 72 | 73 | 70-130 | 1 | 20 | |
| Bromodichloromethane | ug/L | <0.36 | 50 | 50 | 47.7 | 48.4 | 95 | 97 | 70-130 | 1 | 20 | |
| Bromoform | ug/L | <4.0 | 50 | 50 | 52.0 | 53.3 | 104 | 107 | 68-129 | 2 | 20 | |
| Bromomethane | ug/L | <0.97 | 50 | 50 | 34.3 | 39.2 | 69 | 78 | 15-170 | 13 | 20 | |
| Carbon tetrachloride | ug/L | <0.17 | 50 | 50 | 52.1 | 52.0 | 104 | 104 | 70-130 | 0 | 20 | |
| Chlorobenzene | ug/L | <0.71 | 50 | 50 | 48.7 | 47.8 | 97 | 96 | 70-130 | 2 | 20 | |
| Chloroethane | ug/L | <1.3 | 50 | 50 | 40.7 | 42.7 | 81 | 85 | 51-148 | 5 | 20 | |
| Chloroform | ug/L | <1.3 | 50 | 50 | 40.7 | 41.9 | 81 | 84 | 74-136 | 3 | 20 | |
| Chloromethane | ug/L | <2.2 | 50 | 50 | 29.7 | 28.6 | 58 | 56 | 23-115 | 4 | 20 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 50 | 50 | 36.5 | 38.8 | 73 | 78 | 70-131 | 6 | 20 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 50 | 50 | 37.5 | 39.2 | 75 | 78 | 70-130 | 4 | 20 | |
| Dibromochloromethane | ug/L | <2.6 | 50 | 50 | 50.7 | 51.2 | 101 | 102 | 70-130 | 1 | 20 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 50 | 50 | 24.3 | 24.1 | 49 | 48 | 10-132 | 1 | 20 | |
| Ethylbenzene | ug/L | <0.22 | 50 | 50 | 47.3 | 46.8 | 95 | 94 | 80-125 | 1 | 20 | |
| Isopropylbenzene (Cumene) | ug/L | <0.39 | 50 | 50 | 50.6 | 50.5 | 101 | 101 | 70-130 | 0 | 20 | |
| m&p-Xylene | ug/L | <0.47 | 100 | 100 | 106 | 102 | 106 | 102 | 70-130 | 4 | 20 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 50 | 50 | 42.4 | 42.6 | 85 | 85 | 51-145 | 1 | 20 | |
| Methylene Chloride | ug/L | <0.58 | 50 | 50 | 51.0 | 49.0 | 102 | 98 | 73-140 | 4 | 20 | |
| o-Xylene | ug/L | <0.26 | 50 | 50 | 51.8 | 50.7 | 104 | 101 | 70-130 | 2 | 20 | |
| Styrene | ug/L | <0.47 | 50 | 50 | 50.7 | 49.5 | 101 | 99 | 70-130 | 2 | 20 | |
| Tetrachloroethene | ug/L | <0.33 | 50 | 50 | 49.1 | 51.1 | 98 | 102 | 70-130 | 4 | 20 | |
| Toluene | ug/L | <0.17 | 50 | 50 | 45.1 | 45.6 | 90 | 91 | 80-131 | 1 | 20 | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 50 | 50 | 46.5 | 51.8 | 93 | 104 | 73-148 | 11 | 20 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 50 | 50 | 39.9 | 39.9 | 80 | 80 | 70-130 | 0 | 20 | |
| Trichloroethene | ug/L | <0.26 | 50 | 50 | 46.2 | 48.8 | 92 | 98 | 70-130 | 5 | 20 | |
| Trichlorofluoromethane | ug/L | <0.21 | 50 | 50 | 57.8 | 61.0 | 116 | 122 | 74-147 | 5 | 20 | |
| Vinyl chloride | ug/L | <0.17 | 50 | 50 | 36.3 | 35.1 | 73 | 70 | 41-129 | 3 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 95 | 96 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 91 | 93 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | | 91 | 91 | 70-130 | | | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

# QUALIFIERS

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## LABORATORIES

| | |
|---|---|
| PASI-G | Pace Analytical Services - Green Bay |

## ANALYTE QUALIFIERS

| | |
|---|---|
| L2 | Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| R1 | RPD value was outside control limits. |

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1902744 D&G MOBIL
Pace Project No.: 40192222

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40192222001** | **MW-8** | EPA 8260 | 329445 | | |
| **40192222002** | **MW-8A** | EPA 8260 | 329445 | | |
| **40192222003** | **PZ-8** | EPA 8260 | 329445 | | |
| **40192222004** | **MW-9** | EPA 8260 | 329445 | | |
| **40192222005** | **MW-7** | EPA 8260 | 329445 | | |
| **40192222006** | **MW-6** | EPA 8260 | 329445 | | |
| **40192222007** | **MW-5** | EPA 8260 | 329445 | | |
| **40192222008** | **MW-4** | EPA 8260 | 329445 | | |
| **40192222009** | **MW-3** | EPA 8260 | 329445 | | |
| **40192222010** | **MW-2** | EPA 8260 | 329444 | | |
| **40192222011** | **MW-1** | EPA 8260 | 329444 | | |
| **40192222012** | **DUPLICATE (MW-5)** | EPA 8260 | 329474 | | |
| **40192222013** | **TRIP BLANK** | EPA 8260 | 329474 | | |

**UPPER MIDWEST REGION**
**MN:** 612-607-1700 **WI:** 920-469-2436

Page 1 of 1

40192222

Pace Analytical®
www.pacelabs.com

# CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

| (Please Print Clearly) | |
|---|---|
| Company Name: | GEI Consultants |
| Branch/Location: | Green Bay, WI |
| Project Contact: | Roger Miller |
| Phone: | |
| Project Number: | 190744 |
| Project Name: | D+G Mobil |
| Project State: | WI |
| Sampled By (Print): | Faith Zangl-Wiese |
| Sampled By (Sign): | F.M.Z. |
| PO #: | Regulatory Program: |

| Quote #: | |
|---|---|
| Mail To Contact: | |
| Mail To Company: | |
| Mail To Address: | |
| Invoice To Contact: | Same |
| Invoice To Company: | |
| Invoice To Address: | |
| Invoice To Phone: | |

**Data Package Options** (billable)
☐ EPA Level III
☐ EPA Level IV

**MS/MSD**
☐ On your sample (billable)
☐ NOT needed on your sample

**Matrix Codes**

| | |
|---|---|
| A = Air | W = Water |
| B = Biota | DW = Drinking Water |
| C = Charcoal | GW = Ground Water |
| O = Oil | SW = Surface Water |
| S = Soil | WW = Waste Water |
| Sl = Sludge | WP = Wipe |

FILTERED? (YES/NO) — Y/N: N
PRESERVATION (CODE)* — Pick Letter: B
Analyses Requested: VOC

| PACE LAB # | CLIENT FIELD ID | COLLECTION DATE | COLLECTION TIME | MATRIX | CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) |
|---|---|---|---|---|---|---|
| 001 | MW-8 | 8/1/19 | 8:35 | GW | | PG |
| 002 | MW-8A | 8/1/19 | 8:50 | GW | | |
| 003 | PZ-8 | 8/1/19 | 9:05 | GW | | |
| 004 | MW-9 | 8/1/19 | 9:25 | GW | | |
| 005 | MW-7 | 8/1/19 | 9:50 | GW | | |
| 006 | MW-6 | 8/1/19 | 11:45 | GW | | |
| 007 | MW-5 | 8/1/19 | 11:15 | GW | | |
| 008 | MW-4 | 8/1/19 | 12:55 | GW | | |
| 009 | MW-3 | 8/1/19 | 13:20 | GW | | |
| 010 | MW-2 | 8/1/19 | 10:45 | GW | | |
| 011 | MW-1 | 8/1/19 | 10:16 | GW | | |
| 012 | Duplicate (MW-5) | 8/1/19 | 11:15 | GW | | |
| 013 | Trip blank | 8/1/19 | 9:45 | GW | | |

Profile #:

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

| | |
|---|---|
| Email #1: | |
| Email #2: | |
| Telephone: | |
| Fax: | |

Samples on HOLD are subject to special pricing and release of liability

| Relinquished By: | Date/Time: | Received By: | Date/Time: |
|---|---|---|---|
| F.M.Z. | 8/1/19 1430 | [signature] | 8/1/19 1440 |
| | | | |
| | | | |
| | | | |

PACE Project No.: 40192222

Receipt Temp = RPT °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal: Present / (Not Present) Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

# Sample Preservation Receipt Form

Client Name: GEI  Project # 70192222

All containers needing preservation have been checked and noted below: □Yes □No ☑N/A  Initial when completed:  Date/ Time:

Lab Lot# of pH paper:  Lab Std #ID of preservation (if pH adjusted):

| Pace Lab # | Glass: AG1U | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U | Plastic: BP1U | BP2N | BP2Z | BP3U | BP3B | BP3N | BP3S | Vials: DG9A | DG9T | VG9U | VG9H | VG9M | VG9D | Jars: JGFU | WGFU | WPFU | General: SP5T | ZPLC | GN | VOA Vials (>6mm) * | H2SO4 pH ≤2 | NaOH+Zn Act pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤2 | pH after adjusted | Volume (mL) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 002 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 003 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 004 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 005 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 006 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 007 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 008 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 009 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 010 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 011 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 012 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 013 | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 016 | | | | | | | | | | | | | | MSC | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 017 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |

5/8/19

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____  Headspace in VOA Vials (>6mm) : □Yes ☑No □N/A ***If yes look in headspace column***

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AG1U | 1 liter amber glass | BP1U | 1 liter plastic unpres | DG9A | 40 mL amber ascorbic | JGFU | 4 oz amber jar unpres |
| AG1H | 1 liter amber glass HCL | BP2N | 500 mL plastic HNO3 | DG9T | 40 mL amber Na Thio | WGFU | 4 oz clear jar unpres |
| AG4S | 125 mL amber glass H2SO4 | BP2Z | 500 mL plastic NaOH, Znact | VG9U | 40 mL clear vial unpres | WPFU | 4 oz plastic jar unpres |
| AG4U | 120 mL amber glass unpres | BP3U | 250 mL plastic unpres | VG9H | 40 mL clear vial HCL | | |
| AG5U | 100 mL amber glass unpres | BP3B | 250 mL plastic NaOH | VG9M | 40 mL clear vial MeOH | SP5T | 120 mL plastic Na Thiosulfate |
| AG2S | 500 mL amber glass H2SO4 | BP3N | 250 mL plastic HNO3 | VG9D | 40 mL clear vial DI | ZPLC | ziploc bag |
| BG3U | 250 mL clear glass unpres | BP3S | 250 mL plastic H2SO4 | | | GN: | |

| Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302 | Document Name: Sample Condition Upon Receipt (SCUR) | Document Revised: 25Apr2018 |
|---|---|---|
| | Document No.: F-GB-C-031-Rev.07 | Issuing Authority: Pace Green Bay Quality Office |

# Sample Condition Upon Receipt Form (SCUR)

Project #:

**WO# : 40192222**

40192222

**Client Name:** GEI

**Courier:** ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☑ Client ☐ Pace Other:

**Tracking #:**

**Custody Seal on Cooler/Box Present:** ☐ yes ☑ no Seals intact: ☐ yes ☐ no

**Custody Seal on Samples Present:** ☐ yes ☑ no Seals intact: ☐ yes ☐ no

**Packing Material:** ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

**Thermometer Used** SR - N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

**Cooler Temperature** Uncorr: ROI /Corr:

**Temp Blank Present:** ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

**Person examining contents:**
Date: 08/01/19
Initials: MSC

| | | |
|---|---|---|
| Chain of Custody Present: | ☑Yes ☐No ☐N/A | 1. |
| Chain of Custody Filled Out: | ☑Yes ☐No ☐N/A | 2. |
| Chain of Custody Relinquished: | ☑Yes ☐No ☐N/A | 3. |
| Sampler Name & Signature on COC: | ☑Yes ☐No ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☑Yes ☐No | 5. |
| - VOA Samples frozen upon receipt | ☐Yes ☐No | Date/Time: |
| **Short Hold Time Analysis (<72hr):** | ☐Yes ☑No | 6. |
| **Rush Turn Around Time Requested:** | ☐Yes ☑No | 7. |
| Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: | ☐Yes ☑No ☐N/A | 8. |
| Correct Containers Used: | ☑Yes ☐No | 9. |
| -Pace Containers Used: | ☑Yes ☐No ☐N/A | |
| -Pace IR Containers Used: | ☐Yes ☐No ☑N/A | |
| Containers Intact: | ☑Yes ☐No | 10. |
| Filtered volume received for Dissolved tests | ☐Yes ☐No ☑N/A | 11. |
| Sample Labels match COC: | ☑Yes ☐No ☐N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: W | | |
| Trip Blank Present: | ☑Yes ☐No ☐N/A | 13. |
| Trip Blank Custody Seals Present | ☑Yes ☐No ☐N/A | |
| Pace Trip Blank Lot # (if purchased): 427 | | |

**Client Notification/ Resolution:** If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

**Project Manager Review:** Date: 8-1-19

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

October 15, 2019

Roger Miller
GEI Consultants, Inc.
3159 Voyager Drive
Green Bay, WI 54311

RE: Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

Dear Roger Miller:
Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Kyle Sandmire, GEI Consultants, Inc

**Pace Analytical Services, LLC**
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Green Bay, WI 54302
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## CERTIFICATIONS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Green Bay Certification IDs**

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## SAMPLE SUMMARY

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **40196974001** | **MW-8** | Water | 10/10/19 09:05 | 10/10/19 14:35 |
| **40196974002** | **MW-8A** | Water | 10/10/19 09:25 | 10/10/19 14:35 |
| **40196974003** | **PZ-8** | Water | 10/10/19 08:40 | 10/10/19 14:35 |
| **40196974004** | **MW-9** | Water | 10/10/19 10:00 | 10/10/19 14:35 |
| **40196974005** | **MW-7** | Water | 10/10/19 13:15 | 10/10/19 14:35 |
| **40196974006** | **MW-6** | Water | 10/10/19 10:50 | 10/10/19 14:35 |
| **40196974007** | **MW-5** | Water | 10/10/19 11:50 | 10/10/19 14:35 |
| **40196974008** | **MW-4** | Water | 10/10/19 13:50 | 10/10/19 14:35 |
| **40196974009** | **MW-3** | Water | 10/10/19 12:50 | 10/10/19 14:35 |
| **40196974010** | **MW-2** | Water | 10/10/19 12:05 | 10/10/19 14:35 |
| **40196974011** | **MW-1** | Water | 10/10/19 12:25 | 10/10/19 14:35 |
| **40196974012** | **DUPLICATE (MW-5)** | Water | 10/10/19 11:50 | 10/10/19 14:35 |
| **40196974013** | **TRIP BLANK** | Water | 10/10/19 08:40 | 10/10/19 14:35 |

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## SAMPLE ANALYTE COUNT

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **40196974001** | **MW-8** | EPA 8260 | HNW | 65 | PASI-G |
| **40196974002** | **MW-8A** | EPA 8260 | HNW | 65 | PASI-G |
| **40196974003** | **PZ-8** | EPA 8260 | HNW | 65 | PASI-G |
| **40196974004** | **MW-9** | EPA 8260 | HNW | 65 | PASI-G |
| **40196974005** | **MW-7** | EPA 8260 | HNW | 65 | PASI-G |
| **40196974006** | **MW-6** | EPA 8260 | HNW | 65 | PASI-G |
| **40196974007** | **MW-5** | EPA 8260 | HNW | 65 | PASI-G |
| **40196974008** | **MW-4** | EPA 8260 | HNW | 65 | PASI-G |
| **40196974009** | **MW-3** | EPA 8260 | HNW | 65 | PASI-G |
| **40196974010** | **MW-2** | EPA 8260 | HNW | 65 | PASI-G |
| **40196974011** | **MW-1** | EPA 8260 | HNW | 65 | PASI-G |
| **40196974012** | **DUPLICATE (MW-5)** | EPA 8260 | HNW | 65 | PASI-G |
| **40196974013** | **TRIP BLANK** | EPA 8260 | HNW | 65 | PASI-G |

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## SUMMARY OF DETECTION

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **40196974003** | **PZ-8** | | | | | |
| EPA 8260 | Methyl-tert-butyl ether | 1.5J | ug/L | 4.2 | 10/14/19 10:28 | |
| **40196974005** | **MW-7** | | | | | |
| EPA 8260 | Benzene | 1.3 | ug/L | 1.0 | 10/14/19 11:12 | |
| **40196974006** | **MW-6** | | | | | |
| EPA 8260 | Ethylbenzene | 3.3 | ug/L | 1.0 | 10/14/19 11:35 | |
| EPA 8260 | Isopropylbenzene (Cumene) | 0.82J | ug/L | 5.0 | 10/14/19 11:35 | |
| EPA 8260 | n-Propylbenzene | 3.4J | ug/L | 5.0 | 10/14/19 11:35 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 18.8 | ug/L | 2.8 | 10/14/19 11:35 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 5.2 | ug/L | 2.9 | 10/14/19 11:35 | |
| EPA 8260 | Xylene (Total) | 10.1 | ug/L | 3.0 | 10/14/19 11:35 | |
| EPA 8260 | m&p-Xylene | 9.4 | ug/L | 2.0 | 10/14/19 11:35 | |
| EPA 8260 | o-Xylene | 0.79J | ug/L | 1.0 | 10/14/19 11:35 | |
| **40196974007** | **MW-5** | | | | | |
| EPA 8260 | Benzene | 44.5 | ug/L | 40.0 | 10/14/19 08:58 | |
| EPA 8260 | Ethylbenzene | 3490 | ug/L | 40.0 | 10/14/19 08:58 | |
| EPA 8260 | Isopropylbenzene (Cumene) | 98.7J | ug/L | 200 | 10/14/19 08:58 | |
| EPA 8260 | Naphthalene | 556 | ug/L | 200 | 10/14/19 08:58 | |
| EPA 8260 | n-Propylbenzene | 268 | ug/L | 200 | 10/14/19 08:58 | |
| EPA 8260 | Toluene | 118J | ug/L | 200 | 10/14/19 08:58 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 1830 | ug/L | 112 | 10/14/19 08:58 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 438 | ug/L | 116 | 10/14/19 08:58 | |
| EPA 8260 | Xylene (Total) | 8260 | ug/L | 120 | 10/14/19 08:58 | |
| EPA 8260 | m&p-Xylene | 8000 | ug/L | 80.0 | 10/14/19 08:58 | |
| EPA 8260 | o-Xylene | 261 | ug/L | 40.0 | 10/14/19 08:58 | |
| **40196974008** | **MW-4** | | | | | |
| EPA 8260 | Benzene | 3.3J | ug/L | 10.0 | 10/14/19 09:21 | |
| EPA 8260 | sec-Butylbenzene | 11.4J | ug/L | 50.0 | 10/14/19 09:21 | |
| EPA 8260 | Ethylbenzene | 636 | ug/L | 10.0 | 10/14/19 09:21 | |
| EPA 8260 | Isopropylbenzene (Cumene) | 47.8J | ug/L | 50.0 | 10/14/19 09:21 | |
| EPA 8260 | Naphthalene | 90.7 | ug/L | 50.0 | 10/14/19 09:21 | |
| EPA 8260 | n-Propylbenzene | 158 | ug/L | 50.0 | 10/14/19 09:21 | |
| EPA 8260 | Toluene | 8.2J | ug/L | 50.0 | 10/14/19 09:21 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 692 | ug/L | 28.0 | 10/14/19 09:21 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 129 | ug/L | 29.1 | 10/14/19 09:21 | |
| EPA 8260 | Xylene (Total) | 828 | ug/L | 30.0 | 10/14/19 09:21 | |
| EPA 8260 | m&p-Xylene | 809 | ug/L | 20.0 | 10/14/19 09:21 | |
| EPA 8260 | o-Xylene | 19.7 | ug/L | 10.0 | 10/14/19 09:21 | |
| **40196974010** | **MW-2** | | | | | |
| EPA 8260 | Benzene | 10.7 | ug/L | 1.0 | 10/14/19 12:20 | |
| EPA 8260 | Ethylbenzene | 98.3 | ug/L | 1.0 | 10/14/19 12:20 | |
| EPA 8260 | Isopropylbenzene (Cumene) | 3.0J | ug/L | 5.0 | 10/14/19 12:20 | |
| EPA 8260 | Naphthalene | 17.2 | ug/L | 5.0 | 10/14/19 12:20 | |
| EPA 8260 | n-Propylbenzene | 7.5 | ug/L | 5.0 | 10/14/19 12:20 | |
| EPA 8260 | Toluene | 195 | ug/L | 5.0 | 10/14/19 12:20 | |

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## SUMMARY OF DETECTION

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **40196974010** | **MW-2** | | | | | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 53.5 | ug/L | 2.8 | 10/14/19 12:20 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 11.9 | ug/L | 2.9 | 10/14/19 12:20 | |
| EPA 8260 | Xylene (Total) | 349 | ug/L | 3.0 | 10/14/19 12:20 | |
| EPA 8260 | m&p-Xylene | 272 | ug/L | 2.0 | 10/14/19 12:20 | |
| EPA 8260 | o-Xylene | 77.6 | ug/L | 1.0 | 10/14/19 12:20 | |
| **40196974012** | **DUPLICATE (MW-5)** | | | | | |
| EPA 8260 | Benzene | 46.7 | ug/L | 40.0 | 10/14/19 09:43 | |
| EPA 8260 | Ethylbenzene | 3600 | ug/L | 40.0 | 10/14/19 09:43 | |
| EPA 8260 | Isopropylbenzene (Cumene) | 106J | ug/L | 200 | 10/14/19 09:43 | |
| EPA 8260 | Naphthalene | 609 | ug/L | 200 | 10/14/19 09:43 | |
| EPA 8260 | n-Propylbenzene | 293 | ug/L | 200 | 10/14/19 09:43 | |
| EPA 8260 | Toluene | 121J | ug/L | 200 | 10/14/19 09:43 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 1930 | ug/L | 112 | 10/14/19 09:43 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 464 | ug/L | 116 | 10/14/19 09:43 | |
| EPA 8260 | Xylene (Total) | 8480 | ug/L | 120 | 10/14/19 09:43 | |
| EPA 8260 | m&p-Xylene | 8190 | ug/L | 80.0 | 10/14/19 09:43 | |
| EPA 8260 | o-Xylene | 290 | ug/L | 40.0 | 10/14/19 09:43 | |

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## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-8** **Lab ID: 40196974001** Collected: 10/10/19 09:05 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 10/14/19 10:06 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 10:06 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 10/14/19 10:06 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 10/14/19 10:06 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 10/14/19 10:06 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 10/14/19 10:06 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 10:06 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 10/14/19 10:06 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 10/14/19 10:06 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 10:06 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 10:06 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 10:06 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 10:06 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 10/14/19 10:06 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 10/14/19 10:06 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 10/14/19 10:06 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 10/14/19 10:06 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 10/14/19 10:06 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 10:06 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 10:06 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 10:06 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 10/14/19 10:06 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 10:06 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 10/14/19 10:06 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 10:06 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 10:06 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 10:06 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 10:06 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 10/14/19 10:06 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 10:06 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 10:06 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 10/14/19 10:06 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 10/14/19 10:06 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 10/14/19 10:06 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 10/14/19 10:06 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 10/14/19 10:06 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 10/14/19 10:06 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 10:06 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 10/14/19 10:06 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 10/14/19 10:06 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 10/14/19 10:06 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 10/14/19 10:06 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 10:06 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 10/14/19 10:06 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 10/14/19 10:06 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 10:06 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-8** **Lab ID: 40196974001** Collected: 10/10/19 09:05 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 10:06 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 10/14/19 10:06 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 10/14/19 10:06 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 10/14/19 10:06 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 10/14/19 10:06 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 10:06 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 10/14/19 10:06 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 10:06 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 10/14/19 10:06 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 10/14/19 10:06 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 10/14/19 10:06 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 10/14/19 10:06 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 10:06 | 75-01-4 | |
| Xylene (Total) | **<1.5** | ug/L | 3.0 | 1.5 | 1 | | 10/14/19 10:06 | 1330-20-7 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 10/14/19 10:06 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 10:06 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 1 | | 10/14/19 10:06 | 460-00-4 | |
| Dibromofluoromethane (S) | 109 | % | 70-130 | | 1 | | 10/14/19 10:06 | 1868-53-7 | |
| Toluene-d8 (S) | 90 | % | 70-130 | | 1 | | 10/14/19 10:06 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-8A** **Lab ID: 40196974002** Collected: 10/10/19 09:25 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 10/14/19 08:36 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 08:36 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 10/14/19 08:36 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 10/14/19 08:36 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 10/14/19 08:36 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 10/14/19 08:36 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 08:36 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 10/14/19 08:36 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 10/14/19 08:36 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 08:36 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 08:36 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 08:36 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 08:36 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 10/14/19 08:36 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 10/14/19 08:36 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 10/14/19 08:36 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 10/14/19 08:36 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 10/14/19 08:36 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 08:36 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 08:36 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 08:36 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 10/14/19 08:36 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 08:36 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 10/14/19 08:36 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 08:36 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 08:36 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 08:36 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 08:36 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 10/14/19 08:36 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 08:36 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 08:36 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 10/14/19 08:36 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 10/14/19 08:36 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 10/14/19 08:36 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 10/14/19 08:36 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 10/14/19 08:36 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 10/14/19 08:36 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 08:36 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 10/14/19 08:36 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 10/14/19 08:36 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 10/14/19 08:36 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 10/14/19 08:36 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 08:36 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 10/14/19 08:36 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 10/14/19 08:36 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 08:36 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-8A** **Lab ID: 40196974002** Collected: 10/10/19 09:25 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 08:36 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 10/14/19 08:36 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 10/14/19 08:36 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 10/14/19 08:36 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 10/14/19 08:36 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 08:36 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 10/14/19 08:36 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 08:36 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 10/14/19 08:36 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 10/14/19 08:36 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 10/14/19 08:36 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 10/14/19 08:36 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 08:36 | 75-01-4 | |
| Xylene (Total) | **<1.5** | ug/L | 3.0 | 1.5 | 1 | | 10/14/19 08:36 | 1330-20-7 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 10/14/19 08:36 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 08:36 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 70-130 | | 1 | | 10/14/19 08:36 | 460-00-4 | |
| Dibromofluoromethane (S) | 114 | % | 70-130 | | 1 | | 10/14/19 08:36 | 1868-53-7 | |
| Toluene-d8 (S) | 90 | % | 70-130 | | 1 | | 10/14/19 08:36 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: PZ-8** **Lab ID: 40196974003** Collected: 10/10/19 08:40 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 10/14/19 10:28 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 10:28 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 10/14/19 10:28 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 10/14/19 10:28 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 10/14/19 10:28 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 10/14/19 10:28 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 10:28 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 10/14/19 10:28 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 10/14/19 10:28 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 10:28 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 10:28 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 10:28 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 10:28 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 10/14/19 10:28 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 10/14/19 10:28 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 10/14/19 10:28 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 10/14/19 10:28 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 10/14/19 10:28 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 10:28 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 10:28 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 10:28 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 10/14/19 10:28 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 10:28 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 10/14/19 10:28 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 10:28 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 10:28 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 10:28 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 10:28 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 10/14/19 10:28 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 10:28 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 10:28 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 10/14/19 10:28 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 10/14/19 10:28 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 10/14/19 10:28 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 10/14/19 10:28 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 10/14/19 10:28 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 10/14/19 10:28 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 10:28 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 10/14/19 10:28 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 10/14/19 10:28 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 10/14/19 10:28 | 75-09-2 | |
| Methyl-tert-butyl ether | **1.5J** | ug/L | 4.2 | 1.2 | 1 | | 10/14/19 10:28 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 10:28 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 10/14/19 10:28 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 10/14/19 10:28 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 10:28 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: PZ-8** **Lab ID: 40196974003** Collected: 10/10/19 08:40 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 10:28 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 10/14/19 10:28 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 10/14/19 10:28 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 10/14/19 10:28 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 10/14/19 10:28 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 10:28 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 10/14/19 10:28 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 10:28 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 10/14/19 10:28 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 10/14/19 10:28 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 10/14/19 10:28 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 10/14/19 10:28 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 10:28 | 75-01-4 | |
| Xylene (Total) | **<1.5** | ug/L | 3.0 | 1.5 | 1 | | 10/14/19 10:28 | 1330-20-7 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 10/14/19 10:28 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 10:28 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 70-130 | | 1 | | 10/14/19 10:28 | 460-00-4 | |
| Dibromofluoromethane (S) | 110 | % | 70-130 | | 1 | | 10/14/19 10:28 | 1868-53-7 | |
| Toluene-d8 (S) | 89 | % | 70-130 | | 1 | | 10/14/19 10:28 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-9** **Lab ID: 40196974004** Collected: 10/10/19 10:00 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 10/14/19 10:50 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 10:50 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 10/14/19 10:50 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 10/14/19 10:50 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 10/14/19 10:50 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 10/14/19 10:50 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 10:50 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 10/14/19 10:50 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 10/14/19 10:50 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 10:50 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 10:50 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 10:50 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 10:50 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 10/14/19 10:50 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 10/14/19 10:50 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 10/14/19 10:50 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 10/14/19 10:50 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 10/14/19 10:50 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 10:50 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 10:50 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 10:50 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 10/14/19 10:50 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 10:50 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 10/14/19 10:50 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 10:50 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 10:50 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 10:50 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 10:50 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 10/14/19 10:50 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 10:50 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 10:50 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 10/14/19 10:50 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 10/14/19 10:50 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 10/14/19 10:50 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 10/14/19 10:50 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 10/14/19 10:50 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 10/14/19 10:50 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 10:50 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 10/14/19 10:50 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 10/14/19 10:50 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 10/14/19 10:50 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 10/14/19 10:50 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 10:50 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 10/14/19 10:50 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 10/14/19 10:50 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 10:50 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-9** **Lab ID: 40196974004** Collected: 10/10/19 10:00 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 10:50 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 10/14/19 10:50 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 10/14/19 10:50 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 10/14/19 10:50 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 10/14/19 10:50 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 10:50 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 10/14/19 10:50 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 10:50 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 10/14/19 10:50 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 10/14/19 10:50 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 10/14/19 10:50 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 10/14/19 10:50 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 10:50 | 75-01-4 | |
| Xylene (Total) | **<1.5** | ug/L | 3.0 | 1.5 | 1 | | 10/14/19 10:50 | 1330-20-7 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 10/14/19 10:50 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 10:50 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 1 | | 10/14/19 10:50 | 460-00-4 | |
| Dibromofluoromethane (S) | 110 | % | 70-130 | | 1 | | 10/14/19 10:50 | 1868-53-7 | |
| Toluene-d8 (S) | 89 | % | 70-130 | | 1 | | 10/14/19 10:50 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-7** **Lab ID: 40196974005** Collected: 10/10/19 13:15 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **1.3** | ug/L | 1.0 | 0.25 | 1 | | 10/14/19 11:12 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 11:12 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 10/14/19 11:12 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 10/14/19 11:12 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 10/14/19 11:12 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 10/14/19 11:12 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 11:12 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 10/14/19 11:12 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 10/14/19 11:12 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 11:12 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 11:12 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 11:12 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 11:12 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 10/14/19 11:12 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 10/14/19 11:12 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 10/14/19 11:12 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 10/14/19 11:12 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 10/14/19 11:12 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 11:12 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 11:12 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 11:12 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 10/14/19 11:12 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 11:12 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 10/14/19 11:12 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 11:12 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 11:12 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 11:12 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 11:12 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 10/14/19 11:12 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 11:12 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 11:12 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 10/14/19 11:12 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 10/14/19 11:12 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 10/14/19 11:12 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 10/14/19 11:12 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 10/14/19 11:12 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 10/14/19 11:12 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 11:12 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 10/14/19 11:12 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 10/14/19 11:12 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 10/14/19 11:12 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 10/14/19 11:12 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 11:12 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 10/14/19 11:12 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 10/14/19 11:12 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 11:12 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
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Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-7** **Lab ID: 40196974005** Collected: 10/10/19 13:15 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 11:12 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 10/14/19 11:12 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 10/14/19 11:12 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 10/14/19 11:12 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 10/14/19 11:12 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 11:12 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 10/14/19 11:12 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 11:12 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 10/14/19 11:12 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 10/14/19 11:12 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 10/14/19 11:12 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 10/14/19 11:12 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 11:12 | 75-01-4 | |
| Xylene (Total) | **<1.5** | ug/L | 3.0 | 1.5 | 1 | | 10/14/19 11:12 | 1330-20-7 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 10/14/19 11:12 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 11:12 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 70-130 | | 1 | | 10/14/19 11:12 | 460-00-4 | |
| Dibromofluoromethane (S) | 113 | % | 70-130 | | 1 | | 10/14/19 11:12 | 1868-53-7 | |
| Toluene-d8 (S) | 89 | % | 70-130 | | 1 | | 10/14/19 11:12 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-6** **Lab ID: 40196974006** Collected: 10/10/19 10:50 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 10/14/19 11:35 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 11:35 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 10/14/19 11:35 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 10/14/19 11:35 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 10/14/19 11:35 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 10/14/19 11:35 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 11:35 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 10/14/19 11:35 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 10/14/19 11:35 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 11:35 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 11:35 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 11:35 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 11:35 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 10/14/19 11:35 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 10/14/19 11:35 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 10/14/19 11:35 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 10/14/19 11:35 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 10/14/19 11:35 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 11:35 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 11:35 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 11:35 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 10/14/19 11:35 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 11:35 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 10/14/19 11:35 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 11:35 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 11:35 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 11:35 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 11:35 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 10/14/19 11:35 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 11:35 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 11:35 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 10/14/19 11:35 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 10/14/19 11:35 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 10/14/19 11:35 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 10/14/19 11:35 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 10/14/19 11:35 | 108-20-3 | |
| Ethylbenzene | **3.3** | ug/L | 1.0 | 0.22 | 1 | | 10/14/19 11:35 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 11:35 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **0.82J** | ug/L | 5.0 | 0.39 | 1 | | 10/14/19 11:35 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 10/14/19 11:35 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 10/14/19 11:35 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 10/14/19 11:35 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 11:35 | 91-20-3 | |
| n-Propylbenzene | **3.4J** | ug/L | 5.0 | 0.81 | 1 | | 10/14/19 11:35 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 10/14/19 11:35 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 11:35 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-6** **Lab ID: 40196974006** Collected: 10/10/19 10:50 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 11:35 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 10/14/19 11:35 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 10/14/19 11:35 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 10/14/19 11:35 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 10/14/19 11:35 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 11:35 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 10/14/19 11:35 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 11:35 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 10/14/19 11:35 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 10/14/19 11:35 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **18.8** | ug/L | 2.8 | 0.84 | 1 | | 10/14/19 11:35 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **5.2** | ug/L | 2.9 | 0.87 | 1 | | 10/14/19 11:35 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 11:35 | 75-01-4 | |
| Xylene (Total) | **10.1** | ug/L | 3.0 | 1.5 | 1 | | 10/14/19 11:35 | 1330-20-7 | |
| m&p-Xylene | **9.4** | ug/L | 2.0 | 0.47 | 1 | | 10/14/19 11:35 | 179601-23-1 | |
| o-Xylene | **0.79J** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 11:35 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | | 1 | | 10/14/19 11:35 | 460-00-4 | |
| Dibromofluoromethane (S) | 112 | % | 70-130 | | 1 | | 10/14/19 11:35 | 1868-53-7 | |
| Toluene-d8 (S) | 90 | % | 70-130 | | 1 | | 10/14/19 11:35 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-5** **Lab ID: 40196974007** Collected: 10/10/19 11:50 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **44.5** | ug/L | 40.0 | 9.9 | 40 | | 10/14/19 08:58 | 71-43-2 | |
| Bromobenzene | **<9.6** | ug/L | 40.0 | 9.6 | 40 | | 10/14/19 08:58 | 108-86-1 | |
| Bromochloromethane | **<14.5** | ug/L | 200 | 14.5 | 40 | | 10/14/19 08:58 | 74-97-5 | |
| Bromodichloromethane | **<14.5** | ug/L | 48.5 | 14.5 | 40 | | 10/14/19 08:58 | 75-27-4 | |
| Bromoform | **<159** | ug/L | 530 | 159 | 40 | | 10/14/19 08:58 | 75-25-2 | |
| Bromomethane | **<38.9** | ug/L | 200 | 38.9 | 40 | | 10/14/19 08:58 | 74-83-9 | |
| n-Butylbenzene | **<28.3** | ug/L | 94.4 | 28.3 | 40 | | 10/14/19 08:58 | 104-51-8 | |
| sec-Butylbenzene | **<33.9** | ug/L | 200 | 33.9 | 40 | | 10/14/19 08:58 | 135-98-8 | |
| tert-Butylbenzene | **<12.2** | ug/L | 40.5 | 12.2 | 40 | | 10/14/19 08:58 | 98-06-6 | |
| Carbon tetrachloride | **<6.6** | ug/L | 40.0 | 6.6 | 40 | | 10/14/19 08:58 | 56-23-5 | |
| Chlorobenzene | **<28.4** | ug/L | 94.8 | 28.4 | 40 | | 10/14/19 08:58 | 108-90-7 | |
| Chloroethane | **<53.7** | ug/L | 200 | 53.7 | 40 | | 10/14/19 08:58 | 75-00-3 | |
| Chloroform | **<51.0** | ug/L | 200 | 51.0 | 40 | | 10/14/19 08:58 | 67-66-3 | |
| Chloromethane | **<87.6** | ug/L | 292 | 87.6 | 40 | | 10/14/19 08:58 | 74-87-3 | |
| 2-Chlorotoluene | **<37.0** | ug/L | 200 | 37.0 | 40 | | 10/14/19 08:58 | 95-49-8 | |
| 4-Chlorotoluene | **<30.3** | ug/L | 101 | 30.3 | 40 | | 10/14/19 08:58 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<70.5** | ug/L | 235 | 70.5 | 40 | | 10/14/19 08:58 | 96-12-8 | |
| Dibromochloromethane | **<104** | ug/L | 347 | 104 | 40 | | 10/14/19 08:58 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<33.2** | ug/L | 111 | 33.2 | 40 | | 10/14/19 08:58 | 106-93-4 | |
| Dibromomethane | **<37.5** | ug/L | 125 | 37.5 | 40 | | 10/14/19 08:58 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<28.2** | ug/L | 94.0 | 28.2 | 40 | | 10/14/19 08:58 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<25.1** | ug/L | 83.7 | 25.1 | 40 | | 10/14/19 08:58 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<37.7** | ug/L | 126 | 37.7 | 40 | | 10/14/19 08:58 | 106-46-7 | |
| Dichlorodifluoromethane | **<20.0** | ug/L | 200 | 20.0 | 40 | | 10/14/19 08:58 | 75-71-8 | |
| 1,1-Dichloroethane | **<10.9** | ug/L | 40.0 | 10.9 | 40 | | 10/14/19 08:58 | 75-34-3 | |
| 1,2-Dichloroethane | **<11.2** | ug/L | 40.0 | 11.2 | 40 | | 10/14/19 08:58 | 107-06-2 | |
| 1,1-Dichloroethene | **<9.8** | ug/L | 40.0 | 9.8 | 40 | | 10/14/19 08:58 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<10.8** | ug/L | 40.0 | 10.8 | 40 | | 10/14/19 08:58 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<43.6** | ug/L | 145 | 43.6 | 40 | | 10/14/19 08:58 | 156-60-5 | |
| 1,2-Dichloropropane | **<11.3** | ug/L | 40.0 | 11.3 | 40 | | 10/14/19 08:58 | 78-87-5 | |
| 1,3-Dichloropropane | **<33.0** | ug/L | 110 | 33.0 | 40 | | 10/14/19 08:58 | 142-28-9 | |
| 2,2-Dichloropropane | **<90.6** | ug/L | 302 | 90.6 | 40 | | 10/14/19 08:58 | 594-20-7 | |
| 1,1-Dichloropropene | **<21.6** | ug/L | 72.0 | 21.6 | 40 | | 10/14/19 08:58 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<145** | ug/L | 484 | 145 | 40 | | 10/14/19 08:58 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<175** | ug/L | 583 | 175 | 40 | | 10/14/19 08:58 | 10061-02-6 | |
| Diisopropyl ether | **<75.5** | ug/L | 252 | 75.5 | 40 | | 10/14/19 08:58 | 108-20-3 | |
| Ethylbenzene | **3490** | ug/L | 40.0 | 8.7 | 40 | | 10/14/19 08:58 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<47.3** | ug/L | 200 | 47.3 | 40 | | 10/14/19 08:58 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **98.7J** | ug/L | 200 | 15.7 | 40 | | 10/14/19 08:58 | 98-82-8 | |
| p-Isopropyltoluene | **<32.0** | ug/L | 107 | 32.0 | 40 | | 10/14/19 08:58 | 99-87-6 | |
| Methylene Chloride | **<23.2** | ug/L | 200 | 23.2 | 40 | | 10/14/19 08:58 | 75-09-2 | |
| Methyl-tert-butyl ether | **<49.8** | ug/L | 166 | 49.8 | 40 | | 10/14/19 08:58 | 1634-04-4 | |
| Naphthalene | **556** | ug/L | 200 | 47.0 | 40 | | 10/14/19 08:58 | 91-20-3 | |
| n-Propylbenzene | **268** | ug/L | 200 | 32.4 | 40 | | 10/14/19 08:58 | 103-65-1 | |
| Styrene | **<18.6** | ug/L | 62.1 | 18.6 | 40 | | 10/14/19 08:58 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<10.8** | ug/L | 40.0 | 10.8 | 40 | | 10/14/19 08:58 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-5** **Lab ID: 40196974007** Collected: 10/10/19 11:50 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<11.0** | ug/L | 40.0 | 11.0 | 40 | | 10/14/19 08:58 | 79-34-5 | |
| Tetrachloroethene | **<13.1** | ug/L | 43.5 | 13.1 | 40 | | 10/14/19 08:58 | 127-18-4 | |
| Toluene | **118J** | ug/L | 200 | 6.9 | 40 | | 10/14/19 08:58 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<25.0** | ug/L | 200 | 25.0 | 40 | | 10/14/19 08:58 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<38.1** | ug/L | 200 | 38.1 | 40 | | 10/14/19 08:58 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<9.8** | ug/L | 40.0 | 9.8 | 40 | | 10/14/19 08:58 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<22.1** | ug/L | 200 | 22.1 | 40 | | 10/14/19 08:58 | 79-00-5 | |
| Trichloroethene | **<10.2** | ug/L | 40.0 | 10.2 | 40 | | 10/14/19 08:58 | 79-01-6 | |
| Trichlorofluoromethane | **<8.6** | ug/L | 40.0 | 8.6 | 40 | | 10/14/19 08:58 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<23.6** | ug/L | 200 | 23.6 | 40 | | 10/14/19 08:58 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **1830** | ug/L | 112 | 33.6 | 40 | | 10/14/19 08:58 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **438** | ug/L | 116 | 34.9 | 40 | | 10/14/19 08:58 | 108-67-8 | |
| Vinyl chloride | **<7.0** | ug/L | 40.0 | 7.0 | 40 | | 10/14/19 08:58 | 75-01-4 | |
| Xylene (Total) | **8260** | ug/L | 120 | 60.0 | 40 | | 10/14/19 08:58 | 1330-20-7 | |
| m&p-Xylene | **8000** | ug/L | 80.0 | 18.6 | 40 | | 10/14/19 08:58 | 179601-23-1 | |
| o-Xylene | **261** | ug/L | 40.0 | 10.5 | 40 | | 10/14/19 08:58 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | | 40 | | 10/14/19 08:58 | 460-00-4 | |
| Dibromofluoromethane (S) | 109 | % | 70-130 | | 40 | | 10/14/19 08:58 | 1868-53-7 | |
| Toluene-d8 (S) | 90 | % | 70-130 | | 40 | | 10/14/19 08:58 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-4** **Lab ID: 40196974008** Collected: 10/10/19 13:50 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **3.3J** | ug/L | 10.0 | 2.5 | 10 | | 10/14/19 09:21 | 71-43-2 | |
| Bromobenzene | **<2.4** | ug/L | 10.0 | 2.4 | 10 | | 10/14/19 09:21 | 108-86-1 | |
| Bromochloromethane | **<3.6** | ug/L | 50.0 | 3.6 | 10 | | 10/14/19 09:21 | 74-97-5 | |
| Bromodichloromethane | **<3.6** | ug/L | 12.1 | 3.6 | 10 | | 10/14/19 09:21 | 75-27-4 | |
| Bromoform | **<39.7** | ug/L | 132 | 39.7 | 10 | | 10/14/19 09:21 | 75-25-2 | |
| Bromomethane | **<9.7** | ug/L | 50.0 | 9.7 | 10 | | 10/14/19 09:21 | 74-83-9 | |
| n-Butylbenzene | **<7.1** | ug/L | 23.6 | 7.1 | 10 | | 10/14/19 09:21 | 104-51-8 | |
| sec-Butylbenzene | **11.4J** | ug/L | 50.0 | 8.5 | 10 | | 10/14/19 09:21 | 135-98-8 | |
| tert-Butylbenzene | **<3.0** | ug/L | 10.1 | 3.0 | 10 | | 10/14/19 09:21 | 98-06-6 | |
| Carbon tetrachloride | **<1.7** | ug/L | 10.0 | 1.7 | 10 | | 10/14/19 09:21 | 56-23-5 | |
| Chlorobenzene | **<7.1** | ug/L | 23.7 | 7.1 | 10 | | 10/14/19 09:21 | 108-90-7 | |
| Chloroethane | **<13.4** | ug/L | 50.0 | 13.4 | 10 | | 10/14/19 09:21 | 75-00-3 | |
| Chloroform | **<12.7** | ug/L | 50.0 | 12.7 | 10 | | 10/14/19 09:21 | 67-66-3 | |
| Chloromethane | **<21.9** | ug/L | 73.0 | 21.9 | 10 | | 10/14/19 09:21 | 74-87-3 | |
| 2-Chlorotoluene | **<9.3** | ug/L | 50.0 | 9.3 | 10 | | 10/14/19 09:21 | 95-49-8 | |
| 4-Chlorotoluene | **<7.6** | ug/L | 25.2 | 7.6 | 10 | | 10/14/19 09:21 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<17.6** | ug/L | 58.8 | 17.6 | 10 | | 10/14/19 09:21 | 96-12-8 | |
| Dibromochloromethane | **<26.0** | ug/L | 86.7 | 26.0 | 10 | | 10/14/19 09:21 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<8.3** | ug/L | 27.6 | 8.3 | 10 | | 10/14/19 09:21 | 106-93-4 | |
| Dibromomethane | **<9.4** | ug/L | 31.2 | 9.4 | 10 | | 10/14/19 09:21 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<7.1** | ug/L | 23.5 | 7.1 | 10 | | 10/14/19 09:21 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<6.3** | ug/L | 20.9 | 6.3 | 10 | | 10/14/19 09:21 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<9.4** | ug/L | 31.5 | 9.4 | 10 | | 10/14/19 09:21 | 106-46-7 | |
| Dichlorodifluoromethane | **<5.0** | ug/L | 50.0 | 5.0 | 10 | | 10/14/19 09:21 | 75-71-8 | |
| 1,1-Dichloroethane | **<2.7** | ug/L | 10.0 | 2.7 | 10 | | 10/14/19 09:21 | 75-34-3 | |
| 1,2-Dichloroethane | **<2.8** | ug/L | 10.0 | 2.8 | 10 | | 10/14/19 09:21 | 107-06-2 | |
| 1,1-Dichloroethene | **<2.4** | ug/L | 10.0 | 2.4 | 10 | | 10/14/19 09:21 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<2.7** | ug/L | 10.0 | 2.7 | 10 | | 10/14/19 09:21 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<10.9** | ug/L | 36.4 | 10.9 | 10 | | 10/14/19 09:21 | 156-60-5 | |
| 1,2-Dichloropropane | **<2.8** | ug/L | 10.0 | 2.8 | 10 | | 10/14/19 09:21 | 78-87-5 | |
| 1,3-Dichloropropane | **<8.3** | ug/L | 27.5 | 8.3 | 10 | | 10/14/19 09:21 | 142-28-9 | |
| 2,2-Dichloropropane | **<22.7** | ug/L | 75.5 | 22.7 | 10 | | 10/14/19 09:21 | 594-20-7 | |
| 1,1-Dichloropropene | **<5.4** | ug/L | 18.0 | 5.4 | 10 | | 10/14/19 09:21 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<36.3** | ug/L | 121 | 36.3 | 10 | | 10/14/19 09:21 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<43.7** | ug/L | 146 | 43.7 | 10 | | 10/14/19 09:21 | 10061-02-6 | |
| Diisopropyl ether | **<18.9** | ug/L | 62.9 | 18.9 | 10 | | 10/14/19 09:21 | 108-20-3 | |
| Ethylbenzene | **636** | ug/L | 10.0 | 2.2 | 10 | | 10/14/19 09:21 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<11.8** | ug/L | 50.0 | 11.8 | 10 | | 10/14/19 09:21 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **47.8J** | ug/L | 50.0 | 3.9 | 10 | | 10/14/19 09:21 | 98-82-8 | |
| p-Isopropyltoluene | **<8.0** | ug/L | 26.7 | 8.0 | 10 | | 10/14/19 09:21 | 99-87-6 | |
| Methylene Chloride | **<5.8** | ug/L | 50.0 | 5.8 | 10 | | 10/14/19 09:21 | 75-09-2 | |
| Methyl-tert-butyl ether | **<12.5** | ug/L | 41.5 | 12.5 | 10 | | 10/14/19 09:21 | 1634-04-4 | |
| Naphthalene | **90.7** | ug/L | 50.0 | 11.8 | 10 | | 10/14/19 09:21 | 91-20-3 | |
| n-Propylbenzene | **158** | ug/L | 50.0 | 8.1 | 10 | | 10/14/19 09:21 | 103-65-1 | |
| Styrene | **<4.7** | ug/L | 15.5 | 4.7 | 10 | | 10/14/19 09:21 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<2.7** | ug/L | 10.0 | 2.7 | 10 | | 10/14/19 09:21 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-4** **Lab ID: 40196974008** Collected: 10/10/19 13:50 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<2.8** | ug/L | 10.0 | 2.8 | 10 | | 10/14/19 09:21 | 79-34-5 | |
| Tetrachloroethene | **<3.3** | ug/L | 10.9 | 3.3 | 10 | | 10/14/19 09:21 | 127-18-4 | |
| Toluene | **8.2J** | ug/L | 50.0 | 1.7 | 10 | | 10/14/19 09:21 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<6.3** | ug/L | 50.0 | 6.3 | 10 | | 10/14/19 09:21 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<9.5** | ug/L | 50.0 | 9.5 | 10 | | 10/14/19 09:21 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<2.4** | ug/L | 10.0 | 2.4 | 10 | | 10/14/19 09:21 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<5.5** | ug/L | 50.0 | 5.5 | 10 | | 10/14/19 09:21 | 79-00-5 | |
| Trichloroethene | **<2.6** | ug/L | 10.0 | 2.6 | 10 | | 10/14/19 09:21 | 79-01-6 | |
| Trichlorofluoromethane | **<2.1** | ug/L | 10.0 | 2.1 | 10 | | 10/14/19 09:21 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<5.9** | ug/L | 50.0 | 5.9 | 10 | | 10/14/19 09:21 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **692** | ug/L | 28.0 | 8.4 | 10 | | 10/14/19 09:21 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **129** | ug/L | 29.1 | 8.7 | 10 | | 10/14/19 09:21 | 108-67-8 | |
| Vinyl chloride | **<1.7** | ug/L | 10.0 | 1.7 | 10 | | 10/14/19 09:21 | 75-01-4 | |
| Xylene (Total) | **828** | ug/L | 30.0 | 15.0 | 10 | | 10/14/19 09:21 | 1330-20-7 | |
| m&p-Xylene | **809** | ug/L | 20.0 | 4.7 | 10 | | 10/14/19 09:21 | 179601-23-1 | |
| o-Xylene | **19.7** | ug/L | 10.0 | 2.6 | 10 | | 10/14/19 09:21 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | | 10 | | 10/14/19 09:21 | 460-00-4 | |
| Dibromofluoromethane (S) | 108 | % | 70-130 | | 10 | | 10/14/19 09:21 | 1868-53-7 | |
| Toluene-d8 (S) | 89 | % | 70-130 | | 10 | | 10/14/19 09:21 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-3** **Lab ID: 40196974009** Collected: 10/10/19 12:50 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 10/14/19 11:57 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 11:57 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 10/14/19 11:57 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 10/14/19 11:57 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 10/14/19 11:57 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 10/14/19 11:57 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 11:57 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 10/14/19 11:57 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 10/14/19 11:57 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 11:57 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 11:57 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 11:57 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 11:57 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 10/14/19 11:57 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 10/14/19 11:57 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 10/14/19 11:57 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 10/14/19 11:57 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 10/14/19 11:57 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 11:57 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 11:57 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 11:57 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 10/14/19 11:57 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 11:57 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 10/14/19 11:57 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 11:57 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 11:57 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 11:57 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 11:57 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 10/14/19 11:57 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 11:57 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 11:57 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 10/14/19 11:57 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 10/14/19 11:57 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 10/14/19 11:57 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 10/14/19 11:57 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 10/14/19 11:57 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 10/14/19 11:57 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 11:57 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 10/14/19 11:57 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 10/14/19 11:57 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 10/14/19 11:57 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 10/14/19 11:57 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 11:57 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 10/14/19 11:57 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 10/14/19 11:57 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 11:57 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-3** **Lab ID: 40196974009** Collected: 10/10/19 12:50 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 11:57 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 10/14/19 11:57 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 10/14/19 11:57 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 10/14/19 11:57 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 10/14/19 11:57 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 11:57 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 10/14/19 11:57 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 11:57 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 10/14/19 11:57 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 10/14/19 11:57 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 10/14/19 11:57 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 10/14/19 11:57 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 11:57 | 75-01-4 | |
| Xylene (Total) | **<1.5** | ug/L | 3.0 | 1.5 | 1 | | 10/14/19 11:57 | 1330-20-7 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 10/14/19 11:57 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 11:57 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 70-130 | | 1 | | 10/14/19 11:57 | 460-00-4 | |
| Dibromofluoromethane (S) | 111 | % | 70-130 | | 1 | | 10/14/19 11:57 | 1868-53-7 | |
| Toluene-d8 (S) | 89 | % | 70-130 | | 1 | | 10/14/19 11:57 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-2** **Lab ID: 40196974010** Collected: 10/10/19 12:05 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **10.7** | ug/L | 1.0 | 0.25 | 1 | | 10/14/19 12:20 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 12:20 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 10/14/19 12:20 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 10/14/19 12:20 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 10/14/19 12:20 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 10/14/19 12:20 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 12:20 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 10/14/19 12:20 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 10/14/19 12:20 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 12:20 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 12:20 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 12:20 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 12:20 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 10/14/19 12:20 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 10/14/19 12:20 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 10/14/19 12:20 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 10/14/19 12:20 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 10/14/19 12:20 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 12:20 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 12:20 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 12:20 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 10/14/19 12:20 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 12:20 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 10/14/19 12:20 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 12:20 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 12:20 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 12:20 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 12:20 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 10/14/19 12:20 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 12:20 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 12:20 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 10/14/19 12:20 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 10/14/19 12:20 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 10/14/19 12:20 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 10/14/19 12:20 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 10/14/19 12:20 | 108-20-3 | |
| Ethylbenzene | **98.3** | ug/L | 1.0 | 0.22 | 1 | | 10/14/19 12:20 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 12:20 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **3.0J** | ug/L | 5.0 | 0.39 | 1 | | 10/14/19 12:20 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 10/14/19 12:20 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 10/14/19 12:20 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 10/14/19 12:20 | 1634-04-4 | |
| Naphthalene | **17.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 12:20 | 91-20-3 | |
| n-Propylbenzene | **7.5** | ug/L | 5.0 | 0.81 | 1 | | 10/14/19 12:20 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 10/14/19 12:20 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 12:20 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-2** **Lab ID: 40196974010** Collected: 10/10/19 12:05 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 12:20 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 10/14/19 12:20 | 127-18-4 | |
| Toluene | **195** | ug/L | 5.0 | 0.17 | 1 | | 10/14/19 12:20 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 10/14/19 12:20 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 10/14/19 12:20 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 12:20 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 10/14/19 12:20 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 12:20 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 10/14/19 12:20 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 10/14/19 12:20 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **53.5** | ug/L | 2.8 | 0.84 | 1 | | 10/14/19 12:20 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **11.9** | ug/L | 2.9 | 0.87 | 1 | | 10/14/19 12:20 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 12:20 | 75-01-4 | |
| Xylene (Total) | **349** | ug/L | 3.0 | 1.5 | 1 | | 10/14/19 12:20 | 1330-20-7 | |
| m&p-Xylene | **272** | ug/L | 2.0 | 0.47 | 1 | | 10/14/19 12:20 | 179601-23-1 | |
| o-Xylene | **77.6** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 12:20 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | | 1 | | 10/14/19 12:20 | 460-00-4 | |
| Dibromofluoromethane (S) | 109 | % | 70-130 | | 1 | | 10/14/19 12:20 | 1868-53-7 | |
| Toluene-d8 (S) | 90 | % | 70-130 | | 1 | | 10/14/19 12:20 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-1** **Lab ID: 40196974011** Collected: 10/10/19 12:25 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 10/14/19 13:50 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 13:50 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 10/14/19 13:50 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 10/14/19 13:50 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 10/14/19 13:50 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 10/14/19 13:50 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 13:50 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 10/14/19 13:50 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 10/14/19 13:50 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 13:50 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 13:50 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 13:50 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/14/19 13:50 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 10/14/19 13:50 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 10/14/19 13:50 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 10/14/19 13:50 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 10/14/19 13:50 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 10/14/19 13:50 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 13:50 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 13:50 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/14/19 13:50 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 10/14/19 13:50 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/14/19 13:50 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 10/14/19 13:50 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 13:50 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 13:50 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 13:50 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 13:50 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 10/14/19 13:50 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 13:50 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/14/19 13:50 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 10/14/19 13:50 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 10/14/19 13:50 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 10/14/19 13:50 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 10/14/19 13:50 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 10/14/19 13:50 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 10/14/19 13:50 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 13:50 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 10/14/19 13:50 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 10/14/19 13:50 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 10/14/19 13:50 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 10/14/19 13:50 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/14/19 13:50 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 10/14/19 13:50 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 10/14/19 13:50 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/14/19 13:50 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: MW-1** **Lab ID: 40196974011** Collected: 10/10/19 12:25 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/14/19 13:50 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 10/14/19 13:50 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 10/14/19 13:50 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 10/14/19 13:50 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 10/14/19 13:50 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/14/19 13:50 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 10/14/19 13:50 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 13:50 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 10/14/19 13:50 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 10/14/19 13:50 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 10/14/19 13:50 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 10/14/19 13:50 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/14/19 13:50 | 75-01-4 | |
| Xylene (Total) | **<1.5** | ug/L | 3.0 | 1.5 | 1 | | 10/14/19 13:50 | 1330-20-7 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 10/14/19 13:50 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/14/19 13:50 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 1 | | 10/14/19 13:50 | 460-00-4 | |
| Dibromofluoromethane (S) | 112 | % | 70-130 | | 1 | | 10/14/19 13:50 | 1868-53-7 | |
| Toluene-d8 (S) | 89 | % | 70-130 | | 1 | | 10/14/19 13:50 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: DUPLICATE (MW-5)** **Lab ID: 40196974012** Collected: 10/10/19 11:50 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **46.7** | ug/L | 40.0 | 9.9 | 40 | | 10/14/19 09:43 | 71-43-2 | |
| Bromobenzene | **<9.6** | ug/L | 40.0 | 9.6 | 40 | | 10/14/19 09:43 | 108-86-1 | |
| Bromochloromethane | **<14.5** | ug/L | 200 | 14.5 | 40 | | 10/14/19 09:43 | 74-97-5 | |
| Bromodichloromethane | **<14.5** | ug/L | 48.5 | 14.5 | 40 | | 10/14/19 09:43 | 75-27-4 | |
| Bromoform | **<159** | ug/L | 530 | 159 | 40 | | 10/14/19 09:43 | 75-25-2 | |
| Bromomethane | **<38.9** | ug/L | 200 | 38.9 | 40 | | 10/14/19 09:43 | 74-83-9 | |
| n-Butylbenzene | **<28.3** | ug/L | 94.4 | 28.3 | 40 | | 10/14/19 09:43 | 104-51-8 | |
| sec-Butylbenzene | **<33.9** | ug/L | 200 | 33.9 | 40 | | 10/14/19 09:43 | 135-98-8 | |
| tert-Butylbenzene | **<12.2** | ug/L | 40.5 | 12.2 | 40 | | 10/14/19 09:43 | 98-06-6 | |
| Carbon tetrachloride | **<6.6** | ug/L | 40.0 | 6.6 | 40 | | 10/14/19 09:43 | 56-23-5 | |
| Chlorobenzene | **<28.4** | ug/L | 94.8 | 28.4 | 40 | | 10/14/19 09:43 | 108-90-7 | |
| Chloroethane | **<53.7** | ug/L | 200 | 53.7 | 40 | | 10/14/19 09:43 | 75-00-3 | |
| Chloroform | **<51.0** | ug/L | 200 | 51.0 | 40 | | 10/14/19 09:43 | 67-66-3 | |
| Chloromethane | **<87.6** | ug/L | 292 | 87.6 | 40 | | 10/14/19 09:43 | 74-87-3 | |
| 2-Chlorotoluene | **<37.0** | ug/L | 200 | 37.0 | 40 | | 10/14/19 09:43 | 95-49-8 | |
| 4-Chlorotoluene | **<30.3** | ug/L | 101 | 30.3 | 40 | | 10/14/19 09:43 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<70.5** | ug/L | 235 | 70.5 | 40 | | 10/14/19 09:43 | 96-12-8 | |
| Dibromochloromethane | **<104** | ug/L | 347 | 104 | 40 | | 10/14/19 09:43 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<33.2** | ug/L | 111 | 33.2 | 40 | | 10/14/19 09:43 | 106-93-4 | |
| Dibromomethane | **<37.5** | ug/L | 125 | 37.5 | 40 | | 10/14/19 09:43 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<28.2** | ug/L | 94.0 | 28.2 | 40 | | 10/14/19 09:43 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<25.1** | ug/L | 83.7 | 25.1 | 40 | | 10/14/19 09:43 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<37.7** | ug/L | 126 | 37.7 | 40 | | 10/14/19 09:43 | 106-46-7 | |
| Dichlorodifluoromethane | **<20.0** | ug/L | 200 | 20.0 | 40 | | 10/14/19 09:43 | 75-71-8 | |
| 1,1-Dichloroethane | **<10.9** | ug/L | 40.0 | 10.9 | 40 | | 10/14/19 09:43 | 75-34-3 | |
| 1,2-Dichloroethane | **<11.2** | ug/L | 40.0 | 11.2 | 40 | | 10/14/19 09:43 | 107-06-2 | |
| 1,1-Dichloroethene | **<9.8** | ug/L | 40.0 | 9.8 | 40 | | 10/14/19 09:43 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<10.8** | ug/L | 40.0 | 10.8 | 40 | | 10/14/19 09:43 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<43.6** | ug/L | 145 | 43.6 | 40 | | 10/14/19 09:43 | 156-60-5 | |
| 1,2-Dichloropropane | **<11.3** | ug/L | 40.0 | 11.3 | 40 | | 10/14/19 09:43 | 78-87-5 | |
| 1,3-Dichloropropane | **<33.0** | ug/L | 110 | 33.0 | 40 | | 10/14/19 09:43 | 142-28-9 | |
| 2,2-Dichloropropane | **<90.6** | ug/L | 302 | 90.6 | 40 | | 10/14/19 09:43 | 594-20-7 | |
| 1,1-Dichloropropene | **<21.6** | ug/L | 72.0 | 21.6 | 40 | | 10/14/19 09:43 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<145** | ug/L | 484 | 145 | 40 | | 10/14/19 09:43 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<175** | ug/L | 583 | 175 | 40 | | 10/14/19 09:43 | 10061-02-6 | |
| Diisopropyl ether | **<75.5** | ug/L | 252 | 75.5 | 40 | | 10/14/19 09:43 | 108-20-3 | |
| Ethylbenzene | **3600** | ug/L | 40.0 | 8.7 | 40 | | 10/14/19 09:43 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<47.3** | ug/L | 200 | 47.3 | 40 | | 10/14/19 09:43 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **106J** | ug/L | 200 | 15.7 | 40 | | 10/14/19 09:43 | 98-82-8 | |
| p-Isopropyltoluene | **<32.0** | ug/L | 107 | 32.0 | 40 | | 10/14/19 09:43 | 99-87-6 | |
| Methylene Chloride | **<23.2** | ug/L | 200 | 23.2 | 40 | | 10/14/19 09:43 | 75-09-2 | |
| Methyl-tert-butyl ether | **<49.8** | ug/L | 166 | 49.8 | 40 | | 10/14/19 09:43 | 1634-04-4 | |
| Naphthalene | **609** | ug/L | 200 | 47.0 | 40 | | 10/14/19 09:43 | 91-20-3 | |
| n-Propylbenzene | **293** | ug/L | 200 | 32.4 | 40 | | 10/14/19 09:43 | 103-65-1 | |
| Styrene | **<18.6** | ug/L | 62.1 | 18.6 | 40 | | 10/14/19 09:43 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<10.8** | ug/L | 40.0 | 10.8 | 40 | | 10/14/19 09:43 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: DUPLICATE (MW-5)** **Lab ID: 40196974012** Collected: 10/10/19 11:50 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<11.0** | ug/L | 40.0 | 11.0 | 40 | | 10/14/19 09:43 | 79-34-5 | |
| Tetrachloroethene | **<13.1** | ug/L | 43.5 | 13.1 | 40 | | 10/14/19 09:43 | 127-18-4 | |
| Toluene | **121J** | ug/L | 200 | 6.9 | 40 | | 10/14/19 09:43 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<25.0** | ug/L | 200 | 25.0 | 40 | | 10/14/19 09:43 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<38.1** | ug/L | 200 | 38.1 | 40 | | 10/14/19 09:43 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<9.8** | ug/L | 40.0 | 9.8 | 40 | | 10/14/19 09:43 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<22.1** | ug/L | 200 | 22.1 | 40 | | 10/14/19 09:43 | 79-00-5 | |
| Trichloroethene | **<10.2** | ug/L | 40.0 | 10.2 | 40 | | 10/14/19 09:43 | 79-01-6 | |
| Trichlorofluoromethane | **<8.6** | ug/L | 40.0 | 8.6 | 40 | | 10/14/19 09:43 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<23.6** | ug/L | 200 | 23.6 | 40 | | 10/14/19 09:43 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **1930** | ug/L | 112 | 33.6 | 40 | | 10/14/19 09:43 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **464** | ug/L | 116 | 34.9 | 40 | | 10/14/19 09:43 | 108-67-8 | |
| Vinyl chloride | **<7.0** | ug/L | 40.0 | 7.0 | 40 | | 10/14/19 09:43 | 75-01-4 | |
| Xylene (Total) | **8480** | ug/L | 120 | 60.0 | 40 | | 10/14/19 09:43 | 1330-20-7 | |
| m&p-Xylene | **8190** | ug/L | 80.0 | 18.6 | 40 | | 10/14/19 09:43 | 179601-23-1 | |
| o-Xylene | **290** | ug/L | 40.0 | 10.5 | 40 | | 10/14/19 09:43 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | | 40 | | 10/14/19 09:43 | 460-00-4 | |
| Dibromofluoromethane (S) | 109 | % | 70-130 | | 40 | | 10/14/19 09:43 | 1868-53-7 | |
| Toluene-d8 (S) | 90 | % | 70-130 | | 40 | | 10/14/19 09:43 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: TRIP BLANK** **Lab ID: 40196974013** Collected: 10/10/19 08:40 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 10/15/19 00:34 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/15/19 00:34 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 10/15/19 00:34 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 10/15/19 00:34 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 10/15/19 00:34 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 10/15/19 00:34 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/15/19 00:34 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 10/15/19 00:34 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 10/15/19 00:34 | 98-06-6 | |
| Carbon tetrachloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/15/19 00:34 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/15/19 00:34 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/15/19 00:34 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 10/15/19 00:34 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 10/15/19 00:34 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 10/15/19 00:34 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 10/15/19 00:34 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 10/15/19 00:34 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 10/15/19 00:34 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/15/19 00:34 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/15/19 00:34 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 10/15/19 00:34 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 10/15/19 00:34 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 10/15/19 00:34 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 10/15/19 00:34 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/15/19 00:34 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/15/19 00:34 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/15/19 00:34 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/15/19 00:34 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 10/15/19 00:34 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/15/19 00:34 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 10/15/19 00:34 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 10/15/19 00:34 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 10/15/19 00:34 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 10/15/19 00:34 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 10/15/19 00:34 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 10/15/19 00:34 | 108-20-3 | |
| Ethylbenzene | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 10/15/19 00:34 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/15/19 00:34 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.39** | ug/L | 5.0 | 0.39 | 1 | | 10/15/19 00:34 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 10/15/19 00:34 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 10/15/19 00:34 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 10/15/19 00:34 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 10/15/19 00:34 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 10/15/19 00:34 | 103-65-1 | |
| Styrene | **<0.47** | ug/L | 1.6 | 0.47 | 1 | | 10/15/19 00:34 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 10/15/19 00:34 | 630-20-6 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## ANALYTICAL RESULTS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**Sample: TRIP BLANK** **Lab ID: 40196974013** Collected: 10/10/19 08:40 Received: 10/10/19 14:35 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 10/15/19 00:34 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 10/15/19 00:34 | 127-18-4 | |
| Toluene | **<0.17** | ug/L | 5.0 | 0.17 | 1 | | 10/15/19 00:34 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<0.63** | ug/L | 5.0 | 0.63 | 1 | | 10/15/19 00:34 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 10/15/19 00:34 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 10/15/19 00:34 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 10/15/19 00:34 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/15/19 00:34 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 10/15/19 00:34 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 10/15/19 00:34 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 10/15/19 00:34 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 10/15/19 00:34 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 10/15/19 00:34 | 75-01-4 | |
| Xylene (Total) | **<1.5** | ug/L | 3.0 | 1.5 | 1 | | 10/15/19 00:34 | 1330-20-7 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 10/15/19 00:34 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 10/15/19 00:34 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 1 | | 10/15/19 00:34 | 460-00-4 | |
| Dibromofluoromethane (S) | 112 | % | 70-130 | | 1 | | 10/15/19 00:34 | 1868-53-7 | |
| Toluene-d8 (S) | 89 | % | 70-130 | | 1 | | 10/15/19 00:34 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

QC Batch: 337263 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40196974001, 40196974002, 40196974003, 40196974004, 40196974005, 40196974006, 40196974007, 40196974008, 40196974009, 40196974010, 40196974011, 40196974012, 40196974013

METHOD BLANK: 1959904 Matrix: Water
Associated Lab Samples: 40196974001, 40196974002, 40196974003, 40196974004, 40196974005, 40196974006, 40196974007, 40196974008, 40196974009, 40196974010, 40196974011, 40196974012, 40196974013

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.27 | 1.0 | 10/14/19 06:21 | |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 10/14/19 06:21 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 1.0 | 10/14/19 06:21 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 5.0 | 10/14/19 06:21 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 1.0 | 10/14/19 06:21 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 1.0 | 10/14/19 06:21 | |
| 1,1-Dichloropropene | ug/L | <0.54 | 1.8 | 10/14/19 06:21 | |
| 1,2,3-Trichlorobenzene | ug/L | <0.63 | 5.0 | 10/14/19 06:21 | |
| 1,2,3-Trichloropropane | ug/L | <0.59 | 5.0 | 10/14/19 06:21 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 5.0 | 10/14/19 06:21 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.84 | 2.8 | 10/14/19 06:21 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 5.9 | 10/14/19 06:21 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 2.8 | 10/14/19 06:21 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 2.4 | 10/14/19 06:21 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 10/14/19 06:21 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 1.0 | 10/14/19 06:21 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.87 | 2.9 | 10/14/19 06:21 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 2.1 | 10/14/19 06:21 | |
| 1,3-Dichloropropane | ug/L | <0.83 | 2.8 | 10/14/19 06:21 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 3.1 | 10/14/19 06:21 | |
| 2,2-Dichloropropane | ug/L | <2.3 | 7.6 | 10/14/19 06:21 | |
| 2-Chlorotoluene | ug/L | <0.93 | 5.0 | 10/14/19 06:21 | |
| 4-Chlorotoluene | ug/L | <0.76 | 2.5 | 10/14/19 06:21 | |
| Benzene | ug/L | <0.25 | 1.0 | 10/14/19 06:21 | |
| Bromobenzene | ug/L | <0.24 | 1.0 | 10/14/19 06:21 | |
| Bromochloromethane | ug/L | <0.36 | 5.0 | 10/14/19 06:21 | |
| Bromodichloromethane | ug/L | <0.36 | 1.2 | 10/14/19 06:21 | |
| Bromoform | ug/L | <4.0 | 13.2 | 10/14/19 06:21 | |
| Bromomethane | ug/L | <0.97 | 5.0 | 10/14/19 06:21 | |
| Carbon tetrachloride | ug/L | <0.17 | 1.0 | 10/14/19 06:21 | |
| Chlorobenzene | ug/L | <0.71 | 2.4 | 10/14/19 06:21 | |
| Chloroethane | ug/L | <1.3 | 5.0 | 10/14/19 06:21 | |
| Chloroform | ug/L | <1.3 | 5.0 | 10/14/19 06:21 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 10/14/19 06:21 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 1.0 | 10/14/19 06:21 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 12.1 | 10/14/19 06:21 | |
| Dibromochloromethane | ug/L | <2.6 | 8.7 | 10/14/19 06:21 | |
| Dibromomethane | ug/L | <0.94 | 3.1 | 10/14/19 06:21 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 5.0 | 10/14/19 06:21 | |
| Diisopropyl ether | ug/L | <1.9 | 6.3 | 10/14/19 06:21 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

METHOD BLANK: 1959904 Matrix: Water

Associated Lab Samples: 40196974001, 40196974002, 40196974003, 40196974004, 40196974005, 40196974006, 40196974007, 40196974008, 40196974009, 40196974010, 40196974011, 40196974012, 40196974013

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Ethylbenzene | ug/L | <0.22 | 1.0 | 10/14/19 06:21 | |
| Hexachloro-1,3-butadiene | ug/L | <1.2 | 5.0 | 10/14/19 06:21 | |
| Isopropylbenzene (Cumene) | ug/L | <0.39 | 5.0 | 10/14/19 06:21 | |
| m&p-Xylene | ug/L | <0.47 | 2.0 | 10/14/19 06:21 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 4.2 | 10/14/19 06:21 | |
| Methylene Chloride | ug/L | <0.58 | 5.0 | 10/14/19 06:21 | |
| n-Butylbenzene | ug/L | <0.71 | 2.4 | 10/14/19 06:21 | |
| n-Propylbenzene | ug/L | <0.81 | 5.0 | 10/14/19 06:21 | |
| Naphthalene | ug/L | <1.2 | 5.0 | 10/14/19 06:21 | |
| o-Xylene | ug/L | <0.26 | 1.0 | 10/14/19 06:21 | |
| p-Isopropyltoluene | ug/L | <0.80 | 2.7 | 10/14/19 06:21 | |
| sec-Butylbenzene | ug/L | <0.85 | 5.0 | 10/14/19 06:21 | |
| Styrene | ug/L | <0.47 | 1.6 | 10/14/19 06:21 | |
| tert-Butylbenzene | ug/L | <0.30 | 1.0 | 10/14/19 06:21 | |
| Tetrachloroethene | ug/L | <0.33 | 1.1 | 10/14/19 06:21 | |
| Toluene | ug/L | <0.17 | 5.0 | 10/14/19 06:21 | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 3.6 | 10/14/19 06:21 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 14.6 | 10/14/19 06:21 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 10/14/19 06:21 | |
| Trichlorofluoromethane | ug/L | <0.21 | 1.0 | 10/14/19 06:21 | |
| Vinyl chloride | ug/L | <0.17 | 1.0 | 10/14/19 06:21 | |
| Xylene (Total) | ug/L | <1.5 | 3.0 | 10/14/19 06:21 | |
| 4-Bromofluorobenzene (S) | % | 94 | 70-130 | 10/14/19 06:21 | |
| Dibromofluoromethane (S) | % | 112 | 70-130 | 10/14/19 06:21 | |
| Toluene-d8 (S) | % | 89 | 70-130 | 10/14/19 06:21 | |

LABORATORY CONTROL SAMPLE: 1959905

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ug/L | 50 | 61.3 | 123 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 46.9 | 94 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 53.0 | 106 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 64.8 | 130 | 73-150 | |
| 1,1-Dichloroethene | ug/L | 50 | 62.2 | 124 | 73-138 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 48.3 | 97 | 70-130 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 38.8 | 78 | 64-129 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 53.1 | 106 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 50.0 | 100 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 63.5 | 127 | 75-140 | |
| 1,2-Dichloropropane | ug/L | 50 | 57.0 | 114 | 73-135 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 50.9 | 102 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 51.7 | 103 | 70-130 | |
| Benzene | ug/L | 50 | 57.6 | 115 | 70-130 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

LABORATORY CONTROL SAMPLE: 1959905

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Bromodichloromethane | ug/L | 50 | 57.0 | 114 | 70-130 | |
| Bromoform | ug/L | 50 | 53.6 | 107 | 68-129 | |
| Bromomethane | ug/L | 50 | 24.6 | 49 | 18-159 | |
| Carbon tetrachloride | ug/L | 50 | 60.9 | 122 | 70-130 | |
| Chlorobenzene | ug/L | 50 | 55.0 | 110 | 70-130 | |
| Chloroethane | ug/L | 50 | 44.3 | 89 | 53-147 | |
| Chloroform | ug/L | 50 | 60.6 | 121 | 74-136 | |
| Chloromethane | ug/L | 50 | 25.8 | 52 | 29-115 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 59.3 | 119 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 50.0 | 100 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 53.8 | 108 | 70-130 | |
| Dichlorodifluoromethane | ug/L | 50 | 17.8 | 36 | 10-130 | |
| Ethylbenzene | ug/L | 50 | 53.1 | 106 | 80-124 | |
| Isopropylbenzene (Cumene) | ug/L | 50 | 53.3 | 107 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 111 | 111 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 48.4 | 97 | 54-137 | |
| Methylene Chloride | ug/L | 50 | 60.5 | 121 | 73-138 | |
| o-Xylene | ug/L | 50 | 54.0 | 108 | 70-130 | |
| Styrene | ug/L | 50 | 54.2 | 108 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 59.4 | 119 | 70-130 | |
| Toluene | ug/L | 50 | 52.5 | 105 | 80-126 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 65.4 | 131 | 73-145 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 45.5 | 91 | 70-130 | |
| Trichloroethene | ug/L | 50 | 59.9 | 120 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 54.2 | 108 | 76-147 | |
| Vinyl chloride | ug/L | 50 | 37.7 | 75 | 51-120 | |
| Xylene (Total) | ug/L | 150 | 165 | 110 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 109 | 70-130 | |
| Toluene-d8 (S) | % | | | 90 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1959929 1959930

| Parameter | Units | 40196974002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ug/L | <0.24 | 50 | 50 | 59.2 | 56.9 | 118 | 114 | 70-130 | 4 | 20 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 50 | 50 | 45.7 | 43.7 | 91 | 87 | 70-130 | 4 | 20 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 50 | 50 | 51.3 | 48.9 | 103 | 98 | 70-137 | 5 | 20 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 50 | 50 | 62.6 | 60.1 | 125 | 120 | 73-153 | 4 | 20 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 50 | 50 | 60.7 | 57.5 | 121 | 115 | 73-138 | 5 | 20 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 50 | 50 | 48.0 | 46.0 | 96 | 92 | 70-130 | 4 | 20 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 50 | 50 | 38.7 | 37.4 | 77 | 75 | 58-129 | 3 | 20 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 50 | 50 | 51.6 | 49.8 | 103 | 100 | 70-130 | 4 | 20 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 50 | 50 | 48.5 | 46.3 | 97 | 93 | 70-130 | 5 | 20 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1959929 1959930

| Parameter | Units | 40196974002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ug/L | <0.28 | 50 | 50 | 61.5 | 58.3 | 123 | 117 | 75-140 | 5 | 20 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 50 | 50 | 55.2 | 52.7 | 110 | 105 | 71-138 | 5 | 20 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 50 | 50 | 49.2 | 46.7 | 98 | 93 | 70-130 | 5 | 20 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 50 | 50 | 50.4 | 48.0 | 101 | 96 | 70-130 | 5 | 20 | |
| Benzene | ug/L | <0.25 | 50 | 50 | 55.7 | 53.4 | 111 | 107 | 70-130 | 4 | 20 | |
| Bromodichloromethane | ug/L | <0.36 | 50 | 50 | 55.5 | 52.8 | 111 | 106 | 70-130 | 5 | 20 | |
| Bromoform | ug/L | <4.0 | 50 | 50 | 51.9 | 50.0 | 104 | 100 | 68-129 | 4 | 20 | |
| Bromomethane | ug/L | <0.97 | 50 | 50 | 26.3 | 26.7 | 53 | 53 | 15-170 | 1 | 20 | |
| Carbon tetrachloride | ug/L | <0.17 | 50 | 50 | 59.3 | 57.0 | 119 | 114 | 70-130 | 4 | 20 | |
| Chlorobenzene | ug/L | <0.71 | 50 | 50 | 52.9 | 50.9 | 106 | 102 | 70-130 | 4 | 20 | |
| Chloroethane | ug/L | <1.3 | 50 | 50 | 42.9 | 40.6 | 86 | 81 | 51-148 | 5 | 20 | |
| Chloroform | ug/L | <1.3 | 50 | 50 | 58.2 | 55.6 | 116 | 111 | 74-136 | 4 | 20 | |
| Chloromethane | ug/L | <2.2 | 50 | 50 | 25.2 | 23.1 | 50 | 46 | 23-115 | 9 | 20 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 50 | 50 | 57.6 | 55.2 | 115 | 110 | 70-131 | 4 | 20 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 50 | 50 | 48.8 | 46.5 | 98 | 93 | 70-130 | 5 | 20 | |
| Dibromochloromethane | ug/L | <2.6 | 50 | 50 | 51.8 | 50.0 | 104 | 100 | 70-130 | 4 | 20 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 50 | 50 | 16.8 | 15.8 | 34 | 32 | 10-132 | 6 | 20 | |
| Ethylbenzene | ug/L | <0.22 | 50 | 50 | 51.2 | 49.0 | 102 | 98 | 80-125 | 4 | 20 | |
| Isopropylbenzene (Cumene) | ug/L | <0.39 | 50 | 50 | 51.4 | 49.2 | 103 | 98 | 70-130 | 5 | 20 | |
| m&p-Xylene | ug/L | <0.47 | 100 | 100 | 107 | 102 | 107 | 102 | 70-130 | 5 | 20 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 50 | 50 | 47.2 | 45.1 | 94 | 90 | 51-145 | 5 | 20 | |
| Methylene Chloride | ug/L | <0.58 | 50 | 50 | 58.7 | 56.6 | 117 | 113 | 73-140 | 4 | 20 | |
| o-Xylene | ug/L | <0.26 | 50 | 50 | 52.0 | 50.0 | 104 | 100 | 70-130 | 4 | 20 | |
| Styrene | ug/L | <0.47 | 50 | 50 | 51.9 | 49.7 | 104 | 99 | 70-130 | 4 | 20 | |
| Tetrachloroethene | ug/L | <0.33 | 50 | 50 | 57.3 | 54.9 | 115 | 110 | 70-130 | 4 | 20 | |
| Toluene | ug/L | <0.17 | 50 | 50 | 50.6 | 48.5 | 101 | 97 | 80-131 | 4 | 20 | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 50 | 50 | 63.3 | 60.7 | 127 | 121 | 73-148 | 4 | 20 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 50 | 50 | 44.5 | 42.2 | 89 | 84 | 70-130 | 5 | 20 | |
| Trichloroethene | ug/L | <0.26 | 50 | 50 | 58.8 | 55.5 | 118 | 111 | 70-130 | 6 | 20 | |
| Trichlorofluoromethane | ug/L | <0.21 | 50 | 50 | 52.1 | 49.9 | 104 | 100 | 74-147 | 4 | 20 | |
| Vinyl chloride | ug/L | <0.17 | 50 | 50 | 36.5 | 35.1 | 73 | 70 | 41-129 | 4 | 20 | |
| Xylene (Total) | ug/L | <1.5 | 150 | 150 | 159 | 152 | 106 | 102 | 70-130 | 4 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 101 | 101 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 110 | 111 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | | 89 | 90 | 70-130 | | | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

# QUALIFIERS

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

**DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

**LABORATORIES**

PASI-G Pace Analytical Services - Green Bay

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1902744 D&G MOBIL GW
Pace Project No.: 40196974

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40196974001** | **MW-8** | EPA 8260 | 337263 | | |
| **40196974002** | **MW-8A** | EPA 8260 | 337263 | | |
| **40196974003** | **PZ-8** | EPA 8260 | 337263 | | |
| **40196974004** | **MW-9** | EPA 8260 | 337263 | | |
| **40196974005** | **MW-7** | EPA 8260 | 337263 | | |
| **40196974006** | **MW-6** | EPA 8260 | 337263 | | |
| **40196974007** | **MW-5** | EPA 8260 | 337263 | | |
| **40196974008** | **MW-4** | EPA 8260 | 337263 | | |
| **40196974009** | **MW-3** | EPA 8260 | 337263 | | |
| **40196974010** | **MW-2** | EPA 8260 | 337263 | | |
| **40196974011** | **MW-1** | EPA 8260 | 337263 | | |
| **40196974012** | **DUPLICATE (MW-5)** | EPA 8260 | 337263 | | |
| **40196974013** | **TRIP BLANK** | EPA 8260 | 337263 | | |

| (Please Print Clearly) | |
|---|---|
| Company Name: | GEI Consultants, Inc. |
| Branch/Location: | Green Bay, WI |
| Project Contact: | Roger Miller |
| Phone: | 920-455-8200 |
| Project Number: | 1902744 |
| Project Name: | D&G Mobil GW Assessment |
| Project State: | WI |
| Sampled By (Print): | Kyle Sandmire |
| Sampled By (Sign): | |
| PO #: | Regulatory Program: |

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1

40190974

JTB

# CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

| | |
|---|---|
| Quote #: | |
| Mail To Contact: | Roger Miller |
| Mail To Company: | GEI Consultants, Inc. |
| Mail To Address: | 3159 Voyager Drive Green Bay, WI 54311 |
| Invoice To Contact: | |
| Invoice To Company: | |
| Invoice To Address: | |
| Invoice To Phone: | |

**Data Package Options** (billable)
☐ EPA Level III
☐ EPA Level IV

**MS/MSD**
☐ On your sample (billable)
☐ NOT needed on your sample

**Matrix Codes**

| | |
|---|---|
| A = Air | W = Water |
| B = Biota | DW = Drinking Water |
| C = Charcoal | GW = Ground Water |
| O = Oil | SW = Surface Water |
| S = Soil | WW = Waste Water |
| Sl = Sludge | WP = Wipe |

| PACE LAB # | CLIENT FIELD ID | COLLECTION DATE | COLLECTION TIME | MATRIX | FILTERED? (YES/NO) Y/N | PRESERVATION (CODE)* Pick Letter | Analyses Requested | CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | N | B | VOCs | | | |
| 001 | MW-8 | 10/10/19 | 9:05 | GW | | | X | | | |
| 002 | MW-8A | | 9:25 | | | | X | | | |
| 003 | PZ-8 | | 8:40 | | | | X | | | |
| 004 | MW-9 | | 10:00 | | | | X | | | |
| 005 | MW-7 | | 13:15 | | | | X | | | |
| 006 | MW-6 | | 10:58 | | | | X | | | |
| 007 | MW-5 | | 11:30 | | | | X | | | |
| 008 | MW-4 | | 13:50 | | | | X | | | |
| 009 | MW-3 | | 12:50 | | | | X | | | |
| 010 | MW-2 | | 12:05 | | | | X | | | |
| 011 | MW-1 | | 12:25 | | | | X | | | |
| 012 | Duplicate (MW-5) | | 11:30 | | | | X | | | |
| 013 | Trip Blank | | 8:40 | | | | X | | | |

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed: Standard

Transmit Prelim Rush Results by (complete what you want):

| | |
|---|---|
| Email #1: | |
| Email #2: | |
| Telephone: | |
| Fax: | |

Samples on HOLD are subject to special pricing and release of liability

| Relinquished By: | Date/Time: | Received By: | Date/Time: |
|---|---|---|---|
| | 10/10/19 14:35 | | 10/10/19 1435 |
| Relinquished By: | Date/Time: | Received By: | Date/Time: |
| Relinquished By: | Date/Time: | Received By: | Date/Time: |
| Relinquished By: | Date/Time: | Received By: | Date/Time: |

PACE Project No.
40190974

Receipt Temp = 2.01 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

# Sample Preservation Receipt Form

Client Name: GEI

Project # 40196974

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☑N/A

Initial when completed:

Date/ Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

| | Glass | | | | | | Plastic | | | | | | | Vials | | | | | | Jars | | | General | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pace Lab # | AG1U | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U | BP1U | BP2N | BP2Z | BP3U | BP3B | BP3N | BP3S | DG9A | DG9T | VG9U | VG9H | VG9M | VG9D | JGFU | WGFU | WPFU | SP5T | ZPLC | GN | VOA Vials (>6mm) * | H2SO4 pH ≤2 | NaOH+Zn Act pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤2 | pH after adjusted | Volume (mL) |
| 001 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 002 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 003 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 004 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 005 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | 1 | | | | | | 2.5 / 5 / 10 |
| 006 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 007 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 008 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 009 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 010 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 011 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 012 | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 013 | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 017 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 018 | | | | | | | | | | | | | | pH | | 10/10/19 | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 / 10 |

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____

Headspace in VOA Vials (>6mm) : ☑Yes ☐No ☐N/A ***If yes look in headspace column**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| AG1U | 1 liter amber glass | BP1U | 1 liter plastic unpres | DG9A | 40 mL amber ascorbic | JGFU | 4 oz amber jar unpres |
| AG1H | 1 liter amber glass HCL | BP2N | 500 mL plastic HNO3 | DG9T | 40 mL amber Na Thio | WGFU | 4 oz clear jar unpres |
| AG4S | 125 mL amber glass H2SO4 | BP2Z | 500 mL plastic NaOH, Znact | VG9U | 40 mL clear vial unpres | WPFU | 4 oz plastic jar unpres |
| AG4U | 120 mL amber glass unpres | BP3U | 250 mL plastic unpres | VG9H | 40 mL clear vial HCL | | |
| AG5U | 100 mL amber glass unpres | BP3B | 250 mL plastic NaOH | VG9M | 40 mL clear vial MeOH | SP5T | 120 mL plastic Na Thiosulfate |
| AG2S | 500 mL amber glass H2SO4 | BP3N | 250 mL plastic HNO3 | VG9D | 40 mL clear vial DI | ZPLC | ziploc bag |
| BG3U | 250 mL clear glass unpres | BP3S | 250 mL plastic H2SO4 | | | GN: | |

| Pace Analytical<br>1241 Bellevue Street, Green Bay, WI 54302 | Document Name:<br>**Sample Condition Upon Receipt (SCUR)** | Document Revised: 25Apr2018 |
|---|---|---|
| | Document No.:<br>**F-GB-C-031-Rev.07** | Issuing Authority:<br>Pace Green Bay Quality Office |

# Sample Condition Upon Receipt Form (SCUR)

Project #:

**Client Name:** GEI

**WO# : 40196974**

40196974

**Courier:** ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☑ Client ☐ Pace Other:

**Tracking #:**

**Custody Seal on Cooler/Box Present:** ☐ yes ☑ no Seals intact: ☐ yes ☑ no

**Custody Seal on Samples Present:** ☐ yes ☑ no Seals intact: ☐ yes ☑ no

**Packing Material:** ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

**Thermometer Used** SR - NIA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

**Cooler Temperature** Uncorr: RCJ /Corr:

**Temp Blank Present:** ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

**Person examining contents:**
Date: 10/10/19
Initials: MB

| | | |
|---|---|---|
| Chain of Custody Present: | ☑Yes ☐No ☐N/A | 1. |
| Chain of Custody Filled Out: | ☐Yes ☑No ☐N/A | 2. No invoice info mt 10/10/19 |
| Chain of Custody Relinquished: | ☑Yes ☐No ☐N/A | 3. |
| Sampler Name & Signature on COC: | ☑Yes ☐No ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☑Yes ☐No | 5. |
| - VOA Samples frozen upon receipt | ☐Yes ☐No | Date/Time: |
| **Short Hold Time Analysis (<72hr):** | ☐Yes ☑No | 6. |
| **Rush Turn Around Time Requested:** | ☐Yes ☑No | 7. |
| Sufficient Volume: | | 8. |
| For Analysis: ☑Yes ☐No MS/MSD: | ☐Yes ☑No ☐N/A | |
| Correct Containers Used: | ☑Yes ☐No | 9. |
| -Pace Containers Used: | ☑Yes ☐No ☐N/A | |
| -Pace IR Containers Used: | ☐Yes ☑No ☐N/A | |
| Containers Intact: | ☑Yes ☐No | 10. |
| Filtered volume received for Dissolved tests | ☐Yes ☑No ☐N/A | 11. |
| Sample Labels match COC: | ☑Yes ☐No ☐N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: | W | |
| Trip Blank Present: | ☑Yes ☐No ☐N/A | 13. |
| Trip Blank Custody Seals Present | ☑Yes ☐No ☐N/A | |
| Pace Trip Blank Lot # (if purchased): | 433 | |

**Client Notification/ Resolution:** If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

**Project Manager Review:** Date: 10/11/19