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August 12, 2022

Ms. Jennifer Dorman
Environmental Program Associate
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
1027 West St. Paul Avenue
Milwaukee, WI 53233

**Subject:** **GROUNDWATER MONITORING PLAN**
Metro North Service Center
3100 West North Avenue, Milwaukee, Wisconsin
WDNR BRRTS # 02-41-583015
WDNR FID # 241311510

Dear Ms. Dorman,

Please find attached the Groundwater Monitoring Plan (Plan) for the subject site.

This Plan is being submitted via WDNR's online Submittal Portal. Pursuant to WDNR's current Covid-19 policy, a hard copy of the Plan is not being submitted.

Please feel free to contact me at your convenience at (414) 587-4467 (cell) or via email at frank.dombrowski@wecenergygroup.com if you have any questions.

Sincerely,

Frank Dombrowski
Principal Environmental Consultant
WEC Energy Group – Business Services

Attachment

Cc: Project File
David Jaeckels, WEC Energy Group – Business Services
Jeremiah Johnson, Geosyntec Consultants
Linda Stanek, WDNR

*Prepared for*

**Wisconsin Electric Power Company**
**(d.b.a, We Energies)**

# GROUNDWATER MONITORING PLAN

**Metro North Service Center**
3100 West North Avenue
Milwaukee, Wisconsin 53208
WDNR BRRTS # 02-41-583015
WDNR FID # 241311510

*Prepared by*

Geosyntec consultants

10600 N. Port Washington Road, Suite 100
Mequon, Wisconsin 53092
Project Number CHE8094OQ

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*Prepared for*

Wisconsin Electric Power Company
(d.b.a, We Energies)
333 West Everett Street
Milwaukee, WI 53203

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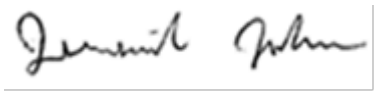
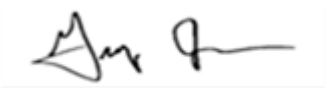
August 12, 2022





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# 1. INTRODUCTION

This *Groundwater Monitoring Plan* (Plan) was prepared by Geosyntec Consultants (Geosyntec) on behalf of Wisconsin Electric Power Company (d.b.a, We Energies) for Metro North Service Center (MNSC) located at 3100 West North Avenue, Milwaukee, Wisconsin 53208 (Site).

This Plan documents the post-source remedial action groundwater monitoring plan for Site. The purpose of this Plan is to satisfy the requirements of NR 724.17(2) of the Wisconsin Administrative Code. The NR 712.09 submittal certification is provided in **Appendix 1**.

The groundwater monitoring objective is to collect sufficient data to demonstrate that the following NR 726.05(6) criteria are satisfied:

- NR 726.05(6)(b) - "Natural attenuation will achieve compliance with NR 140 groundwater quality standards within a reasonable period of time".
- NR 726.05(6)(c) - "The groundwater plume margin is stable or receding".

This Plan includes the following sections:

- Section 1: Introduction
- Section 2: General and Background Information
- Section 3: Additional Groundwater Investigation
- Section 4: Basis for Groundwater Monitoring
- Section 5: Monitoring Program
- Section 6: Reporting
- Section 7: Schedule
- Section 8: References

# 2. GENERAL AND BACKGROUND INFORMATION

This section provides Site contact, location, and description information; a Site investigation summary; and a source area remedial action summary. Detailed background information is documented in the April 30, 2020 *Site Investigation and Remedial Action Options Report* and the June 29, 2020 *Remedial Action Design Report*.

## 2.1 Contact Information

The following table summarizes the contact information for the responsible party (RP) and consultant. The table also includes a listing of groundwater monitoring contractors.

| | |
|---|---|
| Responsible Party | We Energies<br>Frank Dombrowski, Principal Environmental Consultant<br>WEC Energy Group - Business Services<br>Environmental Dept. - Land Quality Group<br>333 Everett Street, Milwaukee, WI 53203<br>Email: frank.dombrowski@wecenergygroup.com<br>Phone: 414.221.2156 |
| Consultant | Geosyntec Consultants<br>Jeremiah Johnson, P.G., Senior Geologist<br>10600 North Port Washington Rd. Suite 100, Mequon, WI 53092<br>Email: jpjohnson@geosyntec.com<br>Phone: 262.377.9828 |
| Contractors | Monitoring Well Installation/Development - CASCADE Drilling (Cascade)<br>Surveyor - TerraTec Engineering, LLC (TerraTec)<br>Laboratory - Pace Analytical Services, LLC (Pace) |

## 2.2 Site Location

The Site is identified by the property address of 3100 West North Avenue, Milwaukee, Wisconsin and Parcel (Taxkey) Number 3261641000.

The Site is located in the southwest ¼ of the southeast ¼ of Section 13, Township 7 North, Range 21 East, and at Wisconsin Transverse Mercator (WTM) coordinates 686676, 289696 on WDNR's RR Sites Map. The Site location is depicted on **Figure 1**.

## 2.3 Site Description

The Site is a 6.28-acre parcel developed with an approximately 81,300 square foot (sf) single-story building consisting of office space, a storage area and a garage with a vehicle service bay. Recent building reconstruction/renovation activities included demolition and reconstruction of the southwest portion of the building and expansion of

the garage area (eastern portion of the building). The Site property is zoned IL2, Industrial-Light.

The Site layout is depicted on **Figure 2**.

## 2.4 Site Investigation Summary

Site investigation activities are documented in the April 30, 2020 *Site Investigation and Remedial Action Options Report*. The following is a generalized summary of the Site investigation findings:

- Source: a former dry cleaner (former building) was approximately located in the southwest portion of the current Site building area. This former dry cleaner is considered the source of soil, groundwater and soil vapor impacts at the Site.
- Contaminant of Concern: tetrachloroethene (PCE) is the primary Site contaminant[1].
- Site Geology and Hydrogeology: The Site geology generally consists of the following:

| Unit | Approximate Depth to Bottom of Unit [feet below ground surface (bgs)] |
|---|---|
| Fill Material (1) | 1 to 10 |
| Clay | 20 to 25 |
| Sand and Gravel | 50 |
| Silt and Clay | > 75 (2) |
| (1) heterogeneous mixture of gravel, silty sand, sandy clay, and clay<br>(2) 75 feet is the maximum depth investigated | |

Shallow groundwater is present within the fill material and clay units at depths ranging from approximately 4.5 to 9.5 feet below ground surface (bgs). The depth to shallow groundwater in the source area, based on former groundwater monitoring well MW-09-19 water level data, is approximately 8 feet bgs. Shallow groundwater flow is generally to the east/northeast with an approximate average horizontal hydraulic gradient of 0.02 feet per foot (ft/ft).

The sand and gravel unit was observed to be unsaturated (substantially dry) with the exception of the lower portion above the silt and clay unit. Groundwater level data for this deeper groundwater unit ranged from approximately 38 to 46 feet bgs. This deeper groundwater exhibits a very low

[1] With the exception of trichloroethene (TCE) detections in source area groundwater, PCE degradation products have not been significantly detected in Site soil, groundwater or soil vapor.

horizontal hydraulic gradient (average of approximately 0.001 ft/ft) to the northeast and south.

- Unsaturated Soil Impacts: pre-remedial action unsaturated PCE soil impacts were substantially limited to the source area with the most significant soil impacts encountered at depths ranging from approximately 3 to 8 feet bgs.
- Groundwater Impacts: PCE groundwater concentrations greater than the NR 140 enforcement standard (ES) are limited to the source area (shallow and deep groundwater) and do not extend off-Site. PCE groundwater concentrations significantly decrease with depth.
- Soil Vapor: pre-source area remedial action building indoor air concentrations were less than applicable Wisconsin Department of Natural Resources (WDNR) indoor air vapor action levels (VALs) and detected soil vapor concentrations greater than WDNR soil gas vapor risk screening levels (VRSLs) were limited to the vicinity of the source area and generally decreased with distance from the source area.

## 2.5 Source Area Remedial Action Summary

The following is a generalized summary of the source area remedial action activities completed between November 2020 and March 2021[2]:

*Pre-Source Area Remedial Action Activities*

- Nine (9) groundwater monitoring wells (MW-01-2019 to MW-09-2019) and eight (8) piezometers (P-01-2019, P02-2019, P-05-2019 to P-09-2019 and P-09A-2019) were abandoned in November 2020 as depicted on **Figure 3**.
- 273.31 tons of PCE-impacted stockpiled planter bed soil was removed and disposed in January 2021.
- A remnant 550-gallon underground storage tank (UST), presumably associated with the former dry cleaner, was removed from the southern portion of the source area remedial action area in January 2021.

[2] Source area remedial action activities will be documented in a *Source Area Remedial Action Construction Documentation Report*.

*Source Area Remedial Action Activities*

- Source area unsaturated soil remedial action was conducted between January and March 2021; 460.91 tons of pre-treated[3] PCE-impacted soil and 3,525.36 tons of untreated PCE-impacted soil were excavated and disposed.
- Source area shallow groundwater remedial action was conducted in January and February 2021; a target 3-foot shallow groundwater treatment zone (approximately 8 to 11 feet bgs) extending below a portion of the unsaturated soil excavation area was treated by ISCO, removed and disposed (369.46 tons of soil was disposed).
- Horizontal perforated piping was installed (and connected to a riser pipe) to allow for potential future in-situ treatment of shallow groundwater (i.e., oxidant addition).

In addition, a vapor mitigation system (VMS) was installed during the reconstruction of the southwest portion of the Site building[4].

[3] A portion of the unsaturated soil excavation area was pre-treated by in-situ chemical oxidation (ISCO) by direct mixing of sodium permanganate to allow disposal of the soil at a Subtitle D (non-hazardous solid waste) disposal facility (i.e., achieve concentrations less than the PCE Land Disposal Restriction (LDR) concentration, the WDNR "contained-out" concentration, and the TCLP regulatory level).

[4] The VMS, which is an active submembrane depressurization system, is currently being commissioned. The VMS installation is documented in a January 26, 2022 *Vapor Mitigation System Commissioning Plan* and will be detailed in a post-commissioning *Vapor Mitigation System Construction Documentation Report*.

# 3. ADDITIONAL GROUNDWATER INVESTIGATION

Additional groundwater sampling and hydraulic conductivity testing were conducted prior to well abandonment and source area remedial action activities.

## 3.1 Additional Groundwater Sampling

Additional groundwater sampling was conducted in July and October 2020. Pursuant to the April 30, 2020 *Site Investigation and Remedial Action Options Report*, groundwater sampling was conducted in July 2020 to support the evaluation of monitored natural attenuation (MNA) for post-source remedial action residual groundwater impacts. Groundwater sampling was conducted in October 2020 to obtain baseline trace metals data pursuant to the September 11, 2020 *Infiltration/Injection Request* [to allow assessment of post-source remedial action (ISCO) trace metals data]. The following is a summary of the July and October 2020 groundwater sampling events:

*July 2020 Sampling Event*

Groundwater samples were collected from eight (8) monitoring wells (MW-01-2019 to MW-04-2019 and MW-06-2019 to MW-09-2019) and six (6) piezometers (P-01-2019, P-05-2019, P-07-2019 to P-09-2019 and P-09A-2019) and submitted to Pace for analysis of volatile organic compounds (VOCs), ethane, ethene, methane, and total organic carbon (TOC). The laboratory results are summarized in **Table 1** and the laboratory report is included in **Appendix 2**. The following is a summary of the July 2020 sampling results:

- Consistent with previous data, detected PCE concentrations greater than the NR 140 ES were limited to the source area monitoring well (MW-09-2019) and piezometers (P-09-2019 and P-09A-2019). No other VOCs were reported as detected in any of the groundwater samples.
- Ethane, ethene and methane were not detected in any of the groundwater samples with the exception of a low methane concentration in the P-05-2019 sample.
- Groundwater sample TOC concentrations ranged from 0.22 to 4.4 milligrams per liter (mg/L).

*October 2020 Sampling Event*

Groundwater samples were collected from eight (8) monitoring wells (MW-01-2019 to MW-04-2019 and MW-06-2019 to MW-09-2019) and six (6) piezometers (P-01-2019, P-05-2019, P-07-2019 to P-09-2019 and P-09A-2019) and submitted to Pace for

analysis of dissolved RCRA metals (arsenic, barium, cadmium, chromium, lead, selenium, silver and mercury) and dissolved manganese. The laboratory results are summarized in **Table 1** and the laboratory report is included in **Appendix 2**. The following is a summary of the October 2020 sampling results:

- Cadmium, lead, selenium, silver and mercury were not detected in any of the groundwater samples.
- Arsenic was detected in nine (9) groundwater samples at estimated (J-flagged) concentrations ranging from 8.5 to 15.6 micrograms per liter (ug/L).
- Chromium was detected in one (1) groundwater sample (MW-07-2019) at a concentration of 102 ug/L.
- Barium was detected in each groundwater sample at concentrations ranging from 17.4 to 788 ug/L.
- Manganese was detected in each groundwater sample at concentrations ranging from 42.2 to 944 ug/L.

## 3.2 Hydraulic Conductivity Testing

In-situ hydraulic conductivity testing (slug testing) was conducted in July 2020 at eight (8) monitoring wells (MW-01-2019 to MW-04-2019 and MW-06-2019 to MW-09-2019) screened within the fill and clay units, three (3) piezometers (P-01-2019, P-05-2019, P-08-2019) screened in the sand and gravel unit and one (1) piezometer (P-09A-2019) screened in the lower silt and clay unit. The slug testing data are provided in **Appendix 2**. The following table summarizes the slug testing results:

| Site Geologic Unit | Slug Tested Wells | Hydraulic Conductivity (cm/sec) | |
|---|---|---|---|
| | | Range | Geometric Mean |
| Fill/Clay | MW-01-2019 to MW-04-2019, MW-06-2019 to MW-09-2019 | 4.9E-06 to 1.3E-04 | 1.6E-05 |
| Sand and Gravel | P-01-2019, P-05-2019, P-08-2019 | 1.9E-03 to 5.2E-02 | 9.4E-03 |
| Silty and Clay | P-09A-2019 | -- | 2.2E-05 |

cm/sec - centimeters per second

# 4. BASIS FOR GROUNDWATER MONITORING

This section summarizes the basis for MNA groundwater monitoring and the anticipated primary MNA processes most likely to occur in Site groundwater.

## 4.1 MNA Basis

Pursuant to WDNR Guidance *Understanding Chlorinated Hydrocarbon Behavior in Groundwater: Guidance on Investigation, Assessment and Limitations of Monitored Natural Attenuation* (RR-699), "MNA is best used to address residual groundwater contamination after active remedies have removed the majority of the contamination."

MNA is expected to be an effective final remedy to address post-remedial action residual groundwater impacts at the Site based on the following:

- The former dry cleaner operations ceased by 1985 and the remnant UST, presumed to be associated with the former dry cleaner, was removed eliminating the source of PCE at the Site.
- Non-aqueous phase liquid (NAPL) has not been encountered at the Site.
- Significant source area remedial action activities have been completed removing the highest concentrations of PCE in soil and groundwater.
- There are no known exposure pathways associated with residual groundwater impacts. Pre-remedial action groundwater sampling data indicated that groundwater impacts greater than NR 140 ESs do not extend off-Site. The Site building has an active VMS[5].

## 4.2 MNA Processes

MNA for residual PCE concentrations in Site groundwater is most likely to occur through a combination of physical processes such as dilution, dispersion, sorption and volatilization. This is based on the lack of PCE degradation products, low total organic carbon (TOC) and generally neutral to oxidizing conditions in groundwater at the Site as summarized below:

- Pre-source remedial action groundwater sampling data (**Table 1**) indicate very little degradation of PCE to its daughter products [TCE, dichloroethane (DCE) and vinyl chloride]. TCE has only been detected at one shallow groundwater

[5] It is anticipated that further investigation of potential preferential vapor migration pathways (e.g., proximate storm and sanitary sewers) will be conducted.

monitoring well location and at one shallow groundwater temporary groundwater sampling point (both located in the source area) and DCE and vinyl chloride have not been detected in groundwater at the Site. In addition, ethane, ethene and methane were not detected in Site groundwater (July 2020 sampling event; refer to Section 3.1) with the exception of a low methane concentration in one groundwater sample.

- Biological degradation of chlorinated ethenes typically occurs under anaerobic conditions where there is a ready source of TOC, typically greater than 20 mg/L. As summarized in **Table 1**, the TOC concentrations in Site groundwater range from 0.22 to 4.4 mg/L. The geochemistry of shallow groundwater is characterized by variable dissolved oxygen (DO) concentrations (0.05 to 6.19 mg/L), neutral pH (6.52 to 7.67) and oxidizing conditions [oxidation reduction potential (ORP) of 15.5 to 203.2 millivolts (mV)]. The deep groundwater is characterized by variable (and generally lower) DO concentrations (0.09 to 3.08 mg/L), neutral pH (6.54 to 7.40) and variable redox conditions (ORP of -444.7 to 156.6 mV).

# 5. MONITORING PROGRAM

This section describes the planned post-source remedial action groundwater monitoring program including the monitoring well network, monitoring frequency, monitoring parameters and analytical methods, applicable standards, sampling procedures, a data quality plan, data assessment, decision criteria for adjustments to the monitoring program and IDW management.

## 5.1 Monitoring Well Network

Post-source remedial action groundwater monitoring wells were installed by Cascade in April 2022. The monitoring well network, which is generally consistent with the June 29, 2020 *Remedial Action Design Report*, is depicted on **Figure 3**.

The groundwater monitoring wells were installed and developed in accordance with NR 141. The monitoring well borings were advanced by sonic drilling. The boring logs (WDNR Form 4400-122), monitoring well construction forms (WDNR Form 4400-113A) and monitoring well development forms (WDNR Form 4400-113B) are provided in **Appendix 3**. Grain size distribution testing data for the screen interval of each groundwater monitoring well is also included in **Appendix 3**.

The groundwater monitoring wells were surveyed following installation. **Table 2** (Summary of Groundwater Monitoring Well Construction Information) provides the northing, easting, ground surface elevation, top of casing elevation and the screen interval depths and elevations for the groundwater monitoring wells.

The following table provides a summary of the monitoring well network:

| Monitoring Well ID | Screen Interval (feet bgs) | Description | Grain Size Distribution of Screen Interval |
|---|---|---|---|
| MW-01-22 | 5-15 | ▪ source area groundwater monitoring well<br>▪ screened across shallow water table within fill material and clay units | Gravel: 11.7%<br>Sand: 36.5%<br>Silt & Clay: 51.8% |
| MW-01I-22 | 38-48 | ▪ source area groundwater monitoring well<br>▪ screened across interface of sand and gravel unit and lower silt and clay unit | Gravel: 11.9%<br>Sand: 74.8%<br>Silt & Clay: 13.4% |
| P-01-22 | 60-65 | ▪ source area piezometer<br>▪ screened within lower silt and clay unit (screen interval includes sand seam within silt and clay unit) | Gravel: 6.3%<br>Sand: 72.6%<br>Silt & Clay: 21.1% |
| MW-02-22 | 7-17 | ▪ side gradient groundwater monitoring well<br>▪ screened across shallow water table within fill material and clay units | Gravel: 0.4%<br>Sand: 8.4%<br>Silt & Clay: 91.1% |

| Monitoring Well ID | Screen Interval (feet bgs) | Description | Grain Size Distribution of Screen Interval |
|---|---|---|---|
| MW-02I-22 | 40-50 | ▪ side gradient groundwater monitoring well<br>▪ screened across interface of sand and gravel unit and lower silt and clay unit | Gravel: 44.1%<br>Sand: 52.4%<br>Silt & Clay: 3.5% |
| MW-03-22 | 7-17 | ▪ upgradient groundwater monitoring well<br>▪ screened across shallow water table within fill material and clay units | Gravel: 6.6%<br>Sand: 47.7%<br>Silt & Clay: 45.7% |
| MW-03I-22 | 43-53 | ▪ upgradient groundwater monitoring well<br>▪ screened across interface of sand and gravel unit and lower silt and clay unit | Gravel: 32.6%<br>Sand: 61.5%<br>Silt & Clay: 5.9% |
| MW-04-22 | 10-20 | ▪ side gradient groundwater monitoring well<br>▪ screened across shallow water table within fill material and clay units | Gravel: 6.2%<br>Sand: 53.7%<br>Silt & Clay: 40.0% |
| MW-04I-22 | 42-52 | ▪ side gradient groundwater monitoring well<br>▪ screened across interface of sand and gravel unit and lower silt and clay unit | Gravel: 7.0%<br>Sand: 76.5%<br>Silt & Clay: 16.5% |
| MW-05-22 | 7-17 | ▪ near downgradient groundwater monitoring well<br>▪ screened across shallow water table within fill material and clay soil units | Gravel: 2.1%<br>Sand: 33.3%<br>Silt & Clay: 64.5% |
| MW-05I-22 | 36-46 | ▪ near downgradient groundwater monitoring well<br>▪ screened across interface of sand and gravel unit and lower silt and clay unit | Gravel: 31.5%<br>Sand: 57.0%<br>Silt & Clay: 11.6% |
| P-05-22 | 56-61 | ▪ near downgradient piezometer<br>▪ screened within lower silt and clay unit | Gravel: 0.9%<br>Sand:11.9%<br>Silt & Clay: 87.2% |
| MW-06-22 | 6-16 | ▪ downgradient sentinel groundwater monitoring well<br>▪ screened across shallow water table within fill material and clay soil units | Gravel: 28.0%<br>Sand:36.6%<br>Silt & Clay: 35.4% |
| MW-06I-22 | 38-48 | ▪ downgradient sentinel groundwater monitoring well<br>▪ screened across interface of sand and gravel unit and lower silt and clay unit | Gravel: 40.3%<br>Sand: 54.9%<br>Silt & Clay: 4.9% |
| P-06-22 | 65-70 | ▪ downgradient sentinel piezometer<br>▪ screened within lower silt and clay unit | Gravel: 2.4%<br>Sand: 41.3%<br>Silt & Clay: 56.3% |

## 5.2 Monitoring Frequency

Post-source area remedial action groundwater monitoring will be conducted quarterly for the first year. The frequency of groundwater monitoring thereafter will be established based on an assessment of the first year of data.

## 5.3 Monitoring Parameters and Analytical Methods

The following is a summary of the planned groundwater monitoring parameters and analytical methods:

| Parameter | Analytical Method | Basis |
|---|---|---|
| VOCs | EPA 8260 | contaminant concentration trend analysis |
| methane, ethane, ethene | EPA 8015B Mod | geochemical (MNA indicator) parameter |
| TOC | SM 5310C | geochemical (MNA indicator) parameter |
| DO | field measurement | geochemical (MNA indicator) parameter |
| ORP | field measurement | geochemical (MNA indicator) parameter |
| pH | field measurement | geochemical (MNA indicator) parameter |

In addition, consistent with the WDNR-approved *Infiltration/Injection Request*, the groundwater samples collected during the first and second groundwater monitoring events will be analyzed for dissolved RCRA metals (arsenic, barium, cadmium, chromium, lead, selenium, and silver by analytical method EPA 6010 and mercury by analytical method EPA 7470) and dissolved manganese (by analytical method EPA 6010).

## 5.4 Applicable Standards

The applicable standards for groundwater are the NR 140 groundwater quality standards.

## 5.5 Sampling Procedures

Prior to sampling, the groundwater monitoring wells will be opened and the depths to water will be measured with an electronic water level indicator.

Groundwater samples will be collected using low-flow purging and sampling methods in accordance with NR 140 and the WDNR *Groundwater Sampling Field Manual* (WDNR PUBL-DG-038 96). During low flow purging, field parameters (pH, temperature, conductivity, DO, turbidity and ORP) will be monitored using a portable water quality meter until the parameters stabilize.

Collected groundwater samples will be immediately placed in laboratory supplied containers and placed in a cooler with ice for submittal to the laboratory.

The groundwater samples will be submitted to a NR 149 accredited laboratory under standard chain-of-custody protocols.

## 5.6 Data Quality Plan

### 5.6.1 Quality Assurance/Quality Control

Sampling and analysis quality assurance and quality control (QA/QC) procedures will be conducted in general accordance with NR 716.13(6) and include the following:

- One duplicate sample for every 10 or less samples;
- One equipment blank for every 10 or less samples, unless dedicated sampling equipment is used;
- One trip blank for each shipping container containing samples for VOC analysis;
- Decontamination of sampling equipment between each sampling location, unless dedicated or disposable sampling equipment are used; and
- Checking and calibrating field instruments in accordance with manufacturer's instructions.

### 5.6.2 Data Quality Review

The quality of the groundwater sample laboratory analytical data will be assessed by reviewing the chain-of-custody forms, holding times, analytical detection limits, field QA/QC sample results (duplicate samples and field blanks), and laboratory QA/QC results (method blanks, surrogates, and laboratory control samples).

## 5.7 Data Assessment

The groundwater monitoring data will be compiled after each monitoring event, including the following:

- Groundwater depth and elevation data will be tabulated, and groundwater elevation and piezometric elevation contour maps will be prepared;
- Groundwater sample analytical data and field (geochemical) parameter data will be tabulated;
- Groundwater sample analytical data iso-concentration maps will be prepared;
- Time versus concentration (and water level) plots will be generated and updated for groundwater monitoring wells with VOCs that exceed NR 140 ESs; and
- A distance versus concentration plot will be generated and updated for the primary post-source remedial action residual VOC groundwater flow path.

Data assessment findings will be documented in semi-annual reports (refer to Section 6).

## 5.8 Decision Criteria for Adjustments to Monitoring Program

Based on the pre-source area remedial action groundwater analytical data and groundwater flow conditions, it is not anticipated that significant adjustments to the monitoring program will be needed. However, the monitoring program will be re-assessed if there are significant variations in groundwater flow conditions, VOC concentration trends, the spatial distribution of VOCs, or VOC degradation patterns.

## 5.9 IDW Management

Disposal documentation for soil generated during groundwater monitoring well installation is included in **Appendix 3**[6].

Groundwater sampling purge water will be contained in labeled 55-gallon drums. The drums will be staged on-Site in secondary containment pending routine scheduled pickups by the waste management contractor. Disposal documentation will be provided in the semi-annual groundwater monitoring reports.

[6] Disposal documentation for water generated during groundwater monitoring well installation and development will be provided in the first semi-annual groundwater monitoring report.

# 6. REPORTING

The groundwater monitoring results will be documented to the WDNR in semi-annual reports in accordance with NR 724.13(3) and WDNR Form 4400-194 (R 06/20).[7] The semi-annual reports will include the data and data assessment information described in Section 5.7.

[7] Pursuant to WDNR Form 4400-194 (R 06/20) General Instructions, the option of a narrative report or letter in lieu of the form may be submitted.

## 7. SCHEDULE

The first post-source remedial action quarterly groundwater monitoring event is scheduled for August 2022. The first semi-annual groundwater monitoring report will be submitted to WDNR following the November 2022 sampling event.

Schedule updates will be provided to WDNR in the NR 700 semi-annual progress reports for the Site.

## 8. REFERENCES

Geosyntec (2019). *Site Investigation Work Plan*, Metro North Service Center, 3100 West North Avenue, Milwaukee, Wisconsin; prepared for We Energies; March 12, 2019.

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USGS (2018). Milwaukee, Wisconsin, 7.5 Minute Series (Topographic) Quadrangle Map, 2018.

# TABLES

**TABLE 1**

**Summary of Pre-Source Remedial Action Groundwater Sample Analytical Results**

Metro North Service Center (MNSC)

3100 West North Avenue

Milwaukee, Wisconsin

| **Parameters** | Temporary Groundwater Sampling Points[1] | | | Groundwater Monitoring Wells/Piezometers | | | | | | | | | | | NR 140 Groundwater Quality Standard | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring/Well Identification | GPTW-05 | GPTW-08 | GPTW-14 | MW-01-2019 | | | | MW-01-2019 DUP | | P-01-2019 | | | | P-01-2019 DUP | | |
| Screen Interval (ft bgs) | 5-15 | 5-15 | 5-15 | 6-16 | | | | 6-16 | | 44-54 | | | | 44-54 | | |
| Date | 12/12/2018 | 12/12/2018 | 12/13/2018 | 9/10/2019[3] | 3/17/2020 | 7/13/2020 | 10/19/2020 | 3/17/2020 | 7/13/2020 | 11/25/2019 | 3/17/2020 | 7/14/2020 | 10/19/2020 | 11/25/2019 | PAL | ES |
| **Detected VOCs (µg/L)** | | | | | | | | | | | | | | | | |
| Benzene | <49.3 | 0.29 J | <0.25 | <0.25 | <0.25 | <0.25 | -- | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | -- | <0.25 | 0.5 | 5 |
| Bromomethane[2] | <194 | <0.97 | <0.97 | <0.97 | <0.97 | <0.97 | -- | <0.97 | <0.97 | <0.97 | <0.97 | <0.97 | -- | <0.97 | 1 | 10 |
| sec-Butylbenzene | <170 | 1.4 J | <0.85 | <0.85 | <0.85 | <0.85 | -- | <0.85 | <0.85 | <0.85 | <0.85 | <0.85 | -- | <0.85 | -- | -- |
| Chloromethane[2] | <438 | <2.2 | <2.2 | **16.5** | <2.2 | <2.2 | -- | <2.2 | <2.2 | <2.2 | <2.2 | <2.2 | -- | <2.2 | 3 | 30 |
| Isopropylbenzene | <78.6 | 0.91 J | <0.39 | <0.39 | <1.7 | <1.7 | -- | <1.7 | <1.7 | <0.39 | <1.7 | <1.7 | -- | <0.39 | -- | -- |
| p-Isopropyltoluene | <160 | 2.3 J | <0.80 | <0.80 | <0.80 | <0.80 | -- | <0.80 | <0.80 | <0.80 | <0.80 | <0.80 | -- | <0.80 | -- | -- |
| n-Propylbenzene | <162 | 0.98 J | <0.81 | <0.81 | <0.81 | <0.81 | -- | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | -- | <0.81 | -- | -- |
| 1,1,1,2-Tetrachloroethane | <53.8 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | -- | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | -- | <0.27 | 7 | 70 |
| Tetrachloroethene | **201,000** | **2.9** | **2.1** | <0.33 | <0.33 | <0.33 | -- | **0.53 J** | <0.33 | <0.33 | <0.33 | <0.33 | -- | <0.33 | 0.5 | 5 |
| Toluene | <34.4 | 0.38 J | 0.37 J | <0.17 | <0.27 | <0.27 | -- | <0.27 | <0.27 | <0.17 | <0.27 | <0.27 | -- | <0.17 | 160 | 800 |
| Trichloroethene | **69.7 J** | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | -- | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | -- | <0.26 | 0.5 | 5 |
| Xylene, total | <145.5 | 0.39 J | <0.73 | <0.73 | <0.73 | <0.73 | -- | <0.73 | <0.73 | <0.73 | <0.73 | <0.73 | -- | <0.73 | 400 | 2000 |
| **Dissolved Metals* (µg/L)** | | | | | | | | | | | | | | | | |
| Arsenic | -- | -- | -- | -- | -- | -- | <8.3 | -- | -- | -- | -- | -- | **15.6 J** | -- | 1 | 10 |
| Barium | -- | -- | -- | -- | -- | -- | 84.8 | -- | -- | -- | -- | -- | 20.7 | -- | 400 | 2000 |
| Cadmium | -- | -- | -- | -- | -- | -- | <1.3 | -- | -- | -- | -- | -- | <1.3 | -- | 0.5 | 5 |
| Chromium | -- | -- | -- | -- | -- | -- | <2.5 | -- | -- | -- | -- | -- | <2.5 | -- | 10 | 100 |
| Lead | -- | -- | -- | -- | -- | -- | <5.9 | -- | -- | -- | -- | -- | <5.9 | -- | 1.5 | 15 |
| Manganese | -- | -- | -- | -- | -- | -- | **188** | -- | -- | -- | -- | -- | **812** | -- | 60 | 300 |
| Selenium | -- | -- | -- | -- | -- | -- | <12.2 | -- | -- | -- | -- | -- | <12.2 | -- | 10 | 50 |
| Silver | -- | -- | -- | -- | -- | -- | <3.2 | -- | -- | -- | -- | -- | <3.2 | -- | 10 | 50 |
| Mercury | -- | -- | -- | -- | -- | -- | <0.066 | -- | -- | -- | -- | -- | <0.066 | -- | 0.2 | 2 |
| **MNA Geochemical Parameters** | | | | | | | | | | | | | | | | |
| Ethane (µg/L) | -- | -- | -- | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | -- | <1.2 | -- | -- |
| Ethene (µg/L) | -- | -- | -- | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | -- | <1.2 | -- | -- |
| Methane (µg/L) | -- | -- | -- | <0.66 | <0.66 | <0.66 | -- | <0.66 | <0.66 | <0.66 | <0.66 | <0.66 | -- | <0.66 | -- | -- |
| TOC (mg/L) | -- | -- | -- | 2.0 | 3.5 | 4.4 | -- | 2.4 | 4.2 | 2.6 | 0.98 | 1.5 | -- | 2.6 | -- | -- |
| **Field Parameters** | | | | | | | | | | | | | | | | |
| Temperature (deg C) | -- | -- | -- | -- | 7.9 | 15.8 | 14.0 | -- | -- | 12.3 | 12.1 | 12.7 | 12.1 | -- | -- | -- |
| pH | -- | -- | -- | 6.76 | 7.28 | 7.24 | 7.11 | -- | -- | 6.89 | 6.54 | 6.62 | 7.08 | -- | -- | -- |
| Conductivity (mS/cm) | -- | -- | -- | -- | 2.35 | 1.96 | 3.02 | -- | -- | 6.39 | 5.64 | 5.34 | 5.19 | -- | -- | -- |
| Dissolved Oxygen (mg/L) | -- | -- | -- | 4.32 | 0.91 | 2.69 | 0.30 | -- | -- | 0.64 | 0.09 | 0.22 | 0.13 | -- | -- | -- |
| ORP (mV) | -- | -- | -- | 73.6 | 147.4 | 34.5 | 77.1 | -- | -- | -175.7 | -17.7 | -25.8 | -52.9 | -- | -- | -- |

Notes:

bold - concentration greater than NR 140 PAL

boxed - concentration greater than NR 140 ES

* - collected pursuant to the WDNR-approved *Infiltration/Injection Request*

[1] - the temporary groundwater sampling point data was previously documented in the March 12, 2019 Site Investigation Work Plan (SIWP); refer to the SIWP for the analytical laboratory repo

[2] - common laboratory preservative artifac

[3] - field instrument had operation/calibration issues

-- - not analyzed, not established or not applicable

ES - NR 140 Enforcement Standard

ft bgs - feet below groundwater surface

J - estimated concentration at or above the limit of detection and below the limit of quantitation

mg/L - milligrams per liter

MNA - monitored natural attenuation

mS/cm - millisiemens per centimeter

mV - millivolts

PAL - NR 140 Preventive Action Limit

TOC - total organic carbon

µg/L - milligrams per liter

VOCs - volatile organics compounds

**TABLE 1**

**Summary of Pre-Source Remedial Action Groundwater Sample Analytical Results**

Metro North Service Center (MNSC)

3100 West North Avenue

Milwaukee, Wisconsin

| **Parameters** | Groundwater Monitoring Wells/Piezometers | | | | | | | | | | | | | | NR 140 Groundwater Quality Standard | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring/Well Identification | MW-02-2019 | | | | MW-03-2019 | | | | MW-03-2019 DUP | | MW-04-2019 | | | | | |
| Screen Interval (ft bgs) | 5-15 | | | | 6-16 | | | | 6-16 | | 10-20 | | | | | |
| Date | 9/10/2019[3] | 3/18/2020 | 7/13/2020 | 10/20/2020 | 9/10/2019[3] | 3/18/2020 | 7/13/2020 | 10/20/2020 | 3/18/2020 | 7/13/2020 | 9/10/2019[3] | 3/19/2020 | 7/13/2020 | 10/20/2020 | PAL | ES |
| **Detected VOCs (µg/L)** | | | | | | | | | | | | | | | | |
| Benzene | <0.25 | <0.25 | <0.25 | -- | <0.25 | <0.25 | <0.25 | -- | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | -- | 0.5 | 5 |
| Bromomethane[2] | **2.0 J** | <0.97 | <0.97 | -- | <0.97 | <0.97 | <0.97 | -- | <0.97 | <0.97 | **1.3 J** | <0.97 | <0.97 | -- | 1 | 10 |
| sec-Butylbenzene | <0.85 | <0.85 | <0.85 | -- | <0.85 | <0.85 | <0.85 | -- | <0.85 | <0.85 | <0.85 | <0.85 | <0.85 | -- | -- | -- |
| Chloromethane[2] | **36.9** | <2.2 | <2.2 | -- | **22.3** | <2.2 | <2.2 | -- | <2.2 | <2.2 | **33.0** | <2.2 | <2.2 | -- | 3 | 30 |
| Isopropylbenzene | <0.39 | <1.7 | <1.7 | -- | <0.39 | <1.7 | <1.7 | -- | <1.7 | <1.7 | <0.39 | <1.7 | <1.7 | -- | -- | -- |
| p-Isopropyltoluene | <0.80 | <0.80 | <0.80 | -- | <0.80 | <0.80 | <0.80 | -- | <0.80 | <0.80 | <0.80 | <0.80 | <0.80 | -- | -- | -- |
| n-Propylbenzene | <0.81 | <0.81 | <0.81 | -- | <0.81 | <0.81 | <0.81 | -- | <0.81 | <0.81 | <0.81 | <0.81 | <0.81 | -- | -- | -- |
| 1,1,1,2-Tetrachloroethane | <0.27 | <0.27 | <0.27 | -- | <0.27 | <0.27 | <0.27 | -- | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | -- | 7 | 70 |
| Tetrachloroethene | <0.33 | <0.33 | **1.2** | -- | <0.33 | <0.33 | <0.33 | -- | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | -- | 0.5 | 5 |
| Toluene | <0.17 | <0.27 | <0.27 | -- | <0.17 | <0.27 | <0.27 | -- | <0.27 | <0.27 | <0.17 | <0.27 | <0.27 | -- | 160 | 800 |
| Trichloroethene | <0.26 | <0.26 | <0.26 | -- | <0.26 | <0.26 | <0.26 | -- | <0.26 | <0.26 | <0.26 | <0.26 | <0.26 | -- | 0.5 | 5 |
| Xylene, total | <0.73 | <0.73 | <0.73 | -- | <0.73 | <0.73 | <0.73 | -- | <0.73 | <0.73 | <0.73 | <0.73 | <0.73 | -- | 400 | 2000 |
| **Dissolved Metals* (µg/L)** | | | | | | | | | | | | | | | | |
| Arsenic | -- | -- | -- | <8.3 | -- | -- | -- | <8.3 | -- | -- | -- | -- | -- | <8.3 | 1 | 10 |
| Barium | -- | -- | -- | 253 | -- | -- | -- | 300 | -- | -- | -- | -- | -- | 206 | 400 | 2000 |
| Cadmium | -- | -- | -- | <1.3 | -- | -- | -- | <1.3 | -- | -- | -- | -- | -- | <1.3 | 0.5 | 5 |
| Chromium | -- | -- | -- | <2.5 | -- | -- | -- | <2.5 | -- | -- | -- | -- | -- | <2.5 | 10 | 100 |
| Lead | -- | -- | -- | <5.9 | -- | -- | -- | <5.9 | -- | -- | -- | -- | -- | <5.9 | 1.5 | 15 |
| Manganese | -- | -- | -- | **520** | -- | -- | -- | **69.9** | -- | -- | -- | -- | -- | 42.2 | 60 | 300 |
| Selenium | -- | -- | -- | <12.2 | -- | -- | -- | <12.2 | -- | -- | -- | -- | -- | <12.2 | 10 | 50 |
| Silver | -- | -- | -- | <3.2 | -- | -- | -- | <3.2 | -- | -- | -- | -- | -- | <3.2 | 10 | 50 |
| Mercury | -- | -- | -- | <0.066 | -- | -- | -- | <0.066 | -- | -- | -- | -- | -- | <0.066 | 0.2 | 2 |
| **MNA Geochemical Parameters** | | | | | | | | | | | | | | | | |
| Ethane (µg/L) | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | -- | -- | -- |
| Ethene (µg/L) | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | <1.2 | <1.2 | -- | -- | -- |
| Methane (µg/L) | <0.66 | 2.1 J | <0.66 | -- | <0.66 | <0.66 | <0.66 | -- | <0.66 | <0.66 | <0.66 | <0.66 | <0.66 | -- | -- | -- |
| TOC (mg/L) | 1.3 | 0.73 | 2.6 | -- | 0.81 | 2.0 | 1.3 | -- | 1.8 | 1.3 | 1.0 | 1.5 | 3.5 | -- | -- | -- |
| **Field Parameters** | | | | | | | | | | | | | | | | |
| Temperature (deg C) | -- | 7.2 | 16.6 | 14.1 | -- | 8.4 | 18.9 | 15.6 | -- | -- | -- | 9.1 | 15.3 | 13.4 | -- | -- |
| pH | 6.52 | 6.88 | 6.92 | 6.84 | 7.23 | 7.39 | 7.49 | 7.67 | -- | -- | 7.03 | 6.93 | 6.89 | 6.96 | -- | -- |
| Conductivity (mS/cm) | -- | 1.78 | 6.67 | 8.15 | -- | 13.2 | 13.5 | 16.4 | -- | -- | -- | 3.38 | 2.84 | 3.81 | -- | -- |
| Dissolved Oxygen (mg/L) | 4.03 | 0.05 | 0.40 | 0.28 | 0.67 | 0.09 | 0.08 | 0.35 | -- | -- | 3.22 | 1.47 | 2.63 | 0.46 | -- | -- |
| ORP (mV) | 87.5 | 184.4 | 87.6 | 106.3 | 29.1 | 139.7 | 92.2 | 15.5 | -- | -- | 76.4 | 174.3 | 47.8 | 75.6 | -- | -- |

Notes:

bold - concentration greater than NR 140 PAL

boxed - concentration greater than NR 140 ES

* - collected pursuant to the WDNR-approved *Infiltration/Injection Request*

[1] - the temporary groundwater sampling point data was previously documented in the March 12, 2019 Site Investigation Work Plan (SIWP); refer to the SIWP for the analytical laboratory repo

[2] - common laboratory preservative artifac

[3] - field instrument had operation/calibration issues

-- - not analyzed, not established or not applicable

ES - NR 140 Enforcement Standard

ft bgs - feet below groundwater surface

J - estimated concentration at or above the limit of detection and below the limit of quantitation

mg/L - milligrams per liter

MNA - monitored natural attenuation

mS/cm - millisiemens per centimeter

mV - millivolts

PAL - NR 140 Preventive Action Limit

TOC - total organic carbon

µg/L - milligrams per liter

VOCs - volatile organics compounds

**TABLE 1**

**Summary of Pre-Source Remedial Action Groundwater Sample Analytical Results**

Metro North Service Center (MNSC)

3100 West North Avenue

Milwaukee, Wisconsin

| **Parameters** | Groundwater Monitoring Wells/Piezometers | | | | | | | | | | | | | NR 140 Groundwater Quality Standard | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring/Well Identification | P-05-2019 | | | | MW-06-2019 | | | | MW-07-2019 | | | | MW-07-2019 DUP | | |
| Screen Interval (ft bgs) | 48-58 | | | | 6-16 | | | | 6-16 | | | | 6-16 | | |
| Date | 11/25/2019 | 3/17/2020 | 7/14/2020 | 10/19/2020 | 9/10/2019[3] | 3/18/2020 | 7/14/2020 | 10/20/2020 | 9/10/2019[3] | 3/17/2020 | 7/14/2020 | 10/20/2020 | 9/10/2019[3] | PAL | ES |
| **Detected VOCs (µg/L)** | | | | | | | | | | | | | | | |
| Benzene | <0.25 | <0.25 | <0.25 | -- | <0.25 | <0.25 | <0.25 | -- | <0.25 | <0.25 | <0.25 | -- | <0.25 | 0.5 | 5 |
| Bromomethane[2] | <0.97 | <0.97 | <0.97 | -- | <0.97 | <0.97 | <0.97 | -- | <0.97 | <0.97 | <0.97 | -- | <0.97 | 1 | 10 |
| sec-Butylbenzene | <0.85 | <0.85 | <0.85 | -- | <0.85 | <0.85 | <0.85 | -- | <0.85 | <0.85 | <0.85 | -- | <0.85 | -- | -- |
| Chloromethane[2] | <2.2 | <2.2 | <2.2 | -- | **3.3 J** | <2.2 | <2.2 | -- | **11.8** | <2.2 | <2.2 | -- | **6.7 J** | 3 | 30 |
| Isopropylbenzene | <0.39 | <1.7 | <1.7 | -- | <0.39 | <1.7 | <1.7 | -- | <0.39 | <1.7 | <1.7 | -- | <0.39 | -- | -- |
| p-Isopropyltoluene | <0.80 | <0.80 | <0.80 | -- | <0.80 | <0.80 | <0.80 | -- | <0.80 | <0.80 | <0.80 | -- | <0.80 | -- | -- |
| n-Propylbenzene | <0.81 | <0.81 | <0.81 | -- | <0.81 | <0.81 | <0.81 | -- | <0.81 | <0.81 | <0.81 | -- | <0.81 | -- | -- |
| 1,1,1,2-Tetrachloroethane | <0.27 | <0.27 | <0.27 | -- | <0.27 | <0.27 | <0.27 | -- | <0.27 | <0.27 | <0.27 | -- | <0.27 | 7 | 70 |
| Tetrachloroethene | <0.33 | <0.33 | <0.33 | -- | <0.33 | <0.33 | <0.33 | -- | <0.33 | <0.33 | <0.33 | -- | <0.33 | 0.5 | 5 |
| Toluene | <0.17 | <0.27 | <0.27 | -- | <0.17 | <0.27 | <0.27 | -- | <0.17 | <0.27 | <0.27 | -- | <0.17 | 160 | 800 |
| Trichloroethene | <0.26 | <0.26 | <0.26 | -- | <0.26 | <0.26 | <0.26 | -- | <0.26 | <0.26 | <0.26 | -- | <0.26 | 0.5 | 5 |
| Xylene, total | <0.73 | <0.73 | <0.73 | -- | <0.73 | <0.73 | <0.73 | -- | <0.73 | <0.73 | <0.73 | -- | <0.73 | 400 | 2000 |
| **Dissolved Metals* (µg/L)** | | | | | | | | | | | | | | | |
| Arsenic | -- | -- | -- | **9.5 J** | -- | -- | -- | <8.3 | -- | -- | -- | **9.9 J** | -- | 1 | 10 |
| Barium | -- | -- | -- | 40.1 | -- | -- | -- | 195 | -- | -- | -- | **788** | -- | 400 | 2000 |
| Cadmium | -- | -- | -- | <1.3 | -- | -- | -- | <1.3 | -- | -- | -- | <1.3 | -- | 0.5 | 5 |
| Chromium | -- | -- | -- | <2.5 | -- | -- | -- | <2.5 | -- | -- | -- | **102** | -- | 10 | 100 |
| Lead | -- | -- | -- | <5.9 | -- | -- | -- | <5.9 | -- | -- | -- | <5.9 | -- | 1.5 | 15 |
| Manganese | -- | -- | -- | **742** | -- | -- | -- | 59.6 | -- | -- | -- | **230** | -- | 60 | 300 |
| Selenium | -- | -- | -- | <12.2 | -- | -- | -- | <12.2 | -- | -- | -- | <12.2 | -- | 10 | 50 |
| Silver | -- | -- | -- | <3.2 | -- | -- | -- | <3.2 | -- | -- | -- | <3.2 | -- | 10 | 50 |
| Mercury | -- | -- | -- | <0.066 | -- | -- | -- | <0.066 | -- | -- | -- | <0.066 | -- | 0.2 | 2 |
| **MNA Geochemical Parameters** | | | | | | | | | | | | | | -- | -- |
| Ethane (µg/L) | 1.4 J | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | -- | <1.2 | -- | -- |
| Ethene (µg/L) | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | -- | <1.2 | -- | -- |
| Methane (µg/L) | 2.9 | 1.2 J | 3.0 | -- | <0.66 | <0.66 | <0.66 | -- | <0.66 | <0.66 | <0.66 | -- | <0.66 | -- | -- |
| TOC (mg/L) | 0.57 | 0.47 | 1.2 | -- | 0.79 | 0.46 | 1.6 | -- | 0.56 | 1.1 | 1.6 | -- | 0.55 | -- | -- |
| **Field Parameters** | | | | | | | | | | | | | | -- | -- |
| Temperature (deg C) | 12.4 | 11.9 | 13.2 | 12.4 | -- | 7.3 | 21.7 | 15.0 | -- | 11.2 | 22.1 | 16.5 | -- | -- | -- |
| pH | 7.05 | 6.68 | 6.81 | 6.89 | 7.29 | 7.03 | 6.90 | 7.11 | 6.98 | 6.84 | 6.94 | 6.92 | -- | -- | -- |
| Conductivity (mS/cm) | 7.27 | 6.83 | 8.55 | 7.25 | -- | 3.70 | 3.41 | 3.24 | -- | 20.79 | 21.0 | 25.6 | -- | -- | -- |
| Dissolved Oxygen (mg/L) | 1.28 | 0.12 | 0.13 | 0.31 | 2.01 | 3.62 | 2.37 | 0.56 | 5.63 | 0.18 | 0.87 | 0.42 | -- | -- | -- |
| ORP (mV) | -153 | 14.7 | 23.5 | 10.9 | 56.3 | 203.2 | 83.6 | 48.6 | 94.8 | 140.6 | 134.5 | 117 | -- | -- | -- |

Notes:

bold - concentration greater than NR 140 PAL

boxed - concentration greater than NR 140 ES

* - collected pursuant to the WDNR-approved *Infiltration/Injection Request*

[1] - the temporary groundwater sampling point data was previously documented in the March 12, 2019 Site Investigation Work Plan (SIWP); refer to the SIWP for the analytical laboratory repo

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[3] - field instrument had operation/calibration issues

-- - not analyzed, not established or not applicable

ES - NR 140 Enforcement Standard

ft bgs - feet below groundwater surface

J - estimated concentration at or above the limit of detection and below the limit of quantitation

mg/L - milligrams per liter

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mS/cm - millisiemens per centimeter

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PAL - NR 140 Preventive Action Limit

TOC - total organic carbon

µg/L - milligrams per liter

VOCs - volatile organics compounds

**TABLE 1**

**Summary of Pre-Source Remedial Action Groundwater Sample Analytical Results**

Metro North Service Center (MNSC)

3100 West North Avenue

Milwaukee, Wisconsin

| **Parameters** | Groundwater Monitoring Wells/Piezometers | | | | | | | | | | | | NR 140 Groundwater Quality Standard | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring/Well Identification | P-07-2019 | | | | MW-08-2019 | | | | P-08-2019 | | | | | |
| Screen Interval (ft bgs) | 42-52 | | | | 6-16 | | | | 42-52 | | | | | |
| Date | 11/21/2019 | 3/17/2020 | 7/14/2020 | 10/20/2020 | 9/10/2019[3] | 3/19/2020 | 7/15/2020 | 10/20/2020 | 11/25/2019 | 3/19/2020 | 7/15/2020 | 10/20/2020 | PAL | ES |
| **Detected VOCs (µg/L)** | | | | | | | | | | | | | | |
| Benzene | <0.25 | <0.25 | <0.25 | -- | <0.25 | <0.25 | <0.25 | -- | <0.25 | <0.25 | <0.25 | -- | 0.5 | 5 |
| Bromomethane[2] | <0.97 | <0.97 | <0.97 | -- | <0.97 | <0.97 | <0.97 | -- | <0.97 | <0.97 | <0.97 | -- | 1 | 10 |
| sec-Butylbenzene | <0.85 | <0.85 | <0.85 | -- | <0.85 | <0.85 | <0.85 | -- | <0.85 | <0.85 | <0.85 | -- | -- | -- |
| Chloromethane[2] | <2.2 | <2.2 | <2.2 | -- | **25.9** | <2.2 | <2.2 | -- | <2.2 | <2.2 | <2.2 | -- | 3 | 30 |
| Isopropylbenzene | <0.39 | <1.7 | <1.7 | -- | <0.39 | <1.7 | <1.7 | -- | <0.39 | <1.7 | <1.7 | -- | -- | -- |
| p-Isopropyltoluene | <0.80 | <0.80 | <0.80 | -- | <0.80 | <0.80 | <0.80 | -- | <0.80 | <0.80 | <0.80 | -- | -- | -- |
| n-Propylbenzene | <0.81 | <0.81 | <0.81 | -- | <0.81 | <0.81 | <0.81 | -- | <0.81 | <0.81 | <0.81 | -- | -- | -- |
| 1,1,1,2-Tetrachloroethane | <0.27 | <0.27 | <0.27 | -- | <0.27 | <0.27 | <0.27 | -- | <0.27 | <0.27 | <0.27 | -- | 7 | 70 |
| Tetrachloroethene | <0.33 | <0.33 | <0.33 | -- | <0.33 | <0.33 | <0.33 | -- | **0.76 J** | **0.85 J** | **0.37 J** | **--** | 0.5 | 5 |
| Toluene | <0.17 | <0.27 | <0.27 | -- | <0.17 | <0.27 | <0.27 | -- | <0.17 | <0.27 | <0.27 | -- | 160 | 800 |
| Trichloroethene | <0.26 | <0.26 | <0.26 | -- | <0.26 | <0.26 | <0.26 | -- | <0.26 | <0.26 | <0.26 | -- | 0.5 | 5 |
| Xylene, total | <0.73 | <0.73 | <0.73 | -- | <0.73 | <0.73 | <0.73 | -- | <0.73 | <0.73 | <0.73 | -- | 400 | 2000 |
| **Dissolved Metals* (µg/L)** | | | | | | | | | | | | | | |
| Arsenic | -- | -- | -- | **11.0 J** | -- | -- | -- | **8.5 J** | -- | -- | -- | **9.5 J** | 1 | 10 |
| Barium | -- | -- | -- | 19.4 | -- | -- | -- | 312 | -- | -- | -- | 26.5 | 400 | 2000 |
| Cadmium | -- | -- | -- | <1.3 | -- | -- | -- | <1.3 | -- | -- | -- | <1.3 | 0.5 | 5 |
| Chromium | -- | -- | -- | <2.5 | -- | -- | -- | <2.5 | -- | -- | -- | <2.5 | 10 | 100 |
| Lead | -- | -- | -- | <5.9 | -- | -- | -- | <5.9 | -- | -- | -- | <5.9 | 1.5 | 15 |
| Manganese | -- | -- | -- | **944** | -- | -- | -- | **63.1** | -- | -- | -- | **327** | 60 | 300 |
| Selenium | -- | -- | -- | <12.2 | -- | -- | -- | <12.2 | -- | -- | -- | <12.2 | 10 | 50 |
| Silver | -- | -- | -- | <3.2 | -- | -- | -- | <3.2 | -- | -- | -- | <3.2 | 10 | 50 |
| Mercury | -- | -- | -- | <0.066 | -- | -- | -- | <0.066 | -- | -- | -- | <0.066 | 0.2 | 2 |
| **MNA Geochemical Parameters** | | | | | | | | | | | | | | |
| Ethane (µg/L) | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | -- | 1.3 J | <1.2 | <1.2 | -- | -- | -- |
| Ethene (µg/L) | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | -- | -- | -- |
| Methane (µg/L) | <0.66 | <0.66 | <0.66 | -- | <0.66 | <0.66 | <0.66 | -- | 1.5 J | <0.66 | <0.66 | -- | -- | -- |
| TOC (mg/L) | 0.70 | 0.35 | 1.0 | -- | 0.42 | 0.94 | 0.22 | -- | 0.38 | 0.33 | 1.1 | -- | -- | -- |
| **Field Parameters** | | | | | | | | | | | | | | |
| Temperature (deg C) | 14.5 | 14.3 | 15.1 | 14.8 | -- | 9.2 | 17.9 | 16.6 | -- | 12.7 | 13.8 | 13.2 | -- | -- |
| pH | 6.58 | 6.58 | 6.69 | 6.57 | 7.12 | 7.09 | 6.99 | 7.08 | 6.80 | 6.93 | 6.90 | 6.84 | -- | -- |
| Conductivity (mS/cm) | 7.02 | 6.23 | 6.12 | 7.17 | -- | 17.9 | 16.8 | 20.9 | -- | 4.26 | 4.34 | 5.18 | -- | -- |
| Dissolved Oxygen (mg/L) | 0.27 | 0.11 | 0.15 | 0.14 | 3.71 | 3.91 | 1.53 | 4.21 | 0.28 | 0.19 | 0.20 | 0.11 | -- | -- |
| ORP (mV) | -444.7 | 39.1 | 70.4 | 24.8 | 89.9 | 199 | 74.7 | 94.8 | -419 | 39.9 | 8.6 | 13.5 | -- | -- |

Notes:

bold - concentration greater than NR 140 PAL

boxed - concentration greater than NR 140 ES

* - collected pursuant to the WDNR-approved *Infiltration/Injection Request*

[1] - the temporary groundwater sampling point data was previously documented in the March 12, 2019 Site Investigation Work Plan (SIWP); refer to the SIWP for the analytical laboratory repo

[2] common laboratory preservative artifac

[3] - field instrument had operation/calibration issues

-- - not analyzed, not established or not applicable

ES - NR 140 Enforcement Standard

ft bgs - feet below groundwater surface

J - estimated concentration at or above the limit of detection and below the limit of quantitatio

mg/L - milligrams per liter

MNA - monitored natural attenuation

mS/cm - millisiemens per centimeter

mV - millivolts

PAL - NR 140 Preventive Action Limit

TOC - total organic carbon

µg/L - milligrams per liter

VOCs - volatile organics compounds

**TABLE 1**

**Summary of Pre-Source Remedial Action Groundwater Sample Analytical Results**

Metro North Service Center (MNSC)

3100 West North Avenue

Milwaukee, Wisconsin

| **Parameters** | Groundwater Monitoring Wells/Piezometers | | | | | | | | | | | | NR 140 Groundwater Quality Standard | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring/Well Identification | MW-09-2019 | | | | P-09-2019 | | | | P-09A-2019 | | | | | |
| Screen Interval (ft bgs) | 5-15 | | | | 42-47 | | | | 60-65 | | | | | |
| Date | 9/11/2019[3] | 3/19/2020 | 7/15/2020 | 10/20/2020 | 9/11/2019[3] | 3/19/2020 | 7/15/2020 | 10/20/2020 | 11/25/2019 | 3/19/2020 | 7/15/2020 | 10/20/2020 | PAL | ES |
| **Detected VOCs (µg/L)** | | | | | | | | | | | | | | |
| Benzene | <493 | <0.25 | <123 | -- | <0.25 | <0.25 | <0.49 | -- | <0.25 | <0.25 | <0.25 | -- | 0.5 | 5 |
| Bromomethane[2] | <1,940 | <0.97 | <486 | -- | <0.97 | <0.97 | <1.9 | -- | <0.97 | <0.97 | <0.97 | -- | 1 | 10 |
| sec-Butylbenzene | <1,700 | <0.85 | <424 | -- | <0.85 | <0.85 | <1.7 | -- | <0.85 | <0.85 | <0.85 | -- | -- | -- |
| Chloromethane[2] | <4,380 | <2.2 | <1090 | -- | 9.3 | <2.2 | <4.4 | -- | <2.2 | <2.2 | <2.2 | -- | 3 | 30 |
| Isopropylbenzene | <786 | <1.7 | <843 | -- | <0.39 | <1.7 | <3.4 | -- | <0.39 | <1.7 | <1.7 | -- | -- | -- |
| p-Isopropyltoluene | <1,600 | <0.80 | <400 | -- | <0.80 | <0.80 | <1.6 | -- | <0.80 | <0.80 | <0.80 | -- | -- | -- |
| n-Propylbenzene | <1,620 | <0.81 | <405 | -- | <0.81 | <0.81 | <1.6 | -- | <0.81 | <0.81 | <0.81 | -- | -- | -- |
| 1,1,1,2-Tetrachloroethane | <0.27 | 0.48 J | <135 | -- | <0.27 | <0.27 | <0.54 | -- | <0.27 | <0.27 | <0.27 | -- | 7 | 70 |
| Tetrachloroethene | **112,000** | **45,600** | **25,100** | **--** | **89.4** | **138** | **217** | **--** | **4.7** | **16.0** | **10.8** | **--** | 0.5 | 5 |
| Toluene | <344 | 0.30 J | <135 | -- | <0.17 | <0.27 | <0.54 | -- | <0.17 | <0.27 | <0.27 | -- | 160 | 800 |
| Trichloroethene | **778** | **50.2** | <128 | -- | <0.26 | 0.28 J | <0.51 | -- | <0.26 | <0.26 | <0.26 | -- | 0.5 | 5 |
| Xylene, total | <1,455 | <0.73 | <364 | -- | <0.73 | <0.73 | <1.45 | -- | <0.73 | <0.73 | <0.73 | -- | 400 | 2000 |
| **Dissolved Metals* (µg/L)** | | | | | | | | | | | | | | |
| Arsenic | -- | -- | -- | **14.0 J** | -- | -- | -- | **12.8 J** | -- | -- | -- | **13.9 J** | 1 | 10 |
| Barium | -- | -- | -- | **571** | -- | -- | -- | 17.4 | -- | -- | -- | 28.7 | 400 | 2000 |
| Cadmium | -- | -- | -- | <1.3 | -- | -- | -- | <1.3 | -- | -- | -- | <1.3 | 0.5 | 5 |
| Chromium | -- | -- | -- | <2.5 | -- | -- | -- | <2.5 | -- | -- | -- | <2.5 | 10 | 100 |
| Lead | -- | -- | -- | <5.9 | -- | -- | -- | <5.9 | -- | -- | -- | <5.9 | 1.5 | 15 |
| Manganese | -- | -- | -- | **291** | -- | -- | -- | **256** | -- | -- | -- | **397** | 60 | 300 |
| Selenium | -- | -- | -- | <12.2 | -- | -- | -- | <12.2 | -- | -- | -- | <12.2 | 10 | 50 |
| Silver | -- | -- | -- | <3.2 | -- | -- | -- | <3.2 | -- | -- | -- | <3.2 | 10 | 50 |
| Mercury | -- | -- | -- | <0.066 | -- | -- | -- | <0.066 | -- | -- | -- | <0.066 | 0.2 | 2 |
| **MNA Geochemical Parameters** | | | | | | | | | | | | | | |
| Ethane (µg/L) | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | -- | -- | -- |
| Ethene (µg/L) | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | -- | <1.2 | <1.2 | <1.2 | -- | -- | -- |
| Methane (µg/L) | <0.66 | <0.66 | <0.66 | -- | 2.5 J | <0.66 | <0.66 | -- | <0.66 | <0.66 | <0.66 | -- | -- | -- |
| TOC (mg/L) | 1.2 | 0.57 | 0.28 | -- | 0.68 | 0.43 | 1.7 | -- | 0.60 | 0.31 | 1.4 | -- | -- | -- |
| **Field Parameters** | | | | | | | | | | | | | | |
| Temperature (deg C) | -- | 7.8 | 18.1 | 16.2 | -- | 12.5 | 13.8 | 12.7 | 12.9 | 12.6 | 14.0 | 13.0 | -- | -- |
| pH | 6.52 | 7.01 | 6.95 | 7.07 | 7.40 | 6.95 | 6.92 | 6.65 | 7.16 | 6.88 | 6.84 | 6.65 | -- | -- |
| Conductivity (mS/cm) | -- | 20.6 | 18.0 | 21.9 | -- | 5.02 | 4.94 | 5.93 | 5.58 | 6.72 | 6.32 | 7.10 | -- | -- |
| Dissolved Oxygen (mg/L) | 6.19 | 0.88 | 1.12 | 0.97 | 3.08 | 0.48 | 0.48 | 0.25 | 2.11 | 0.60 | 0.56 | 0.17 | -- | -- |
| ORP (mV) | 114.9 | 190.9 | 59.0 | 78.0 | 43.4 | 156.6 | 72.3 | 81.5 | -33.0 | -39.4 | -54.6 | -57.9 | -- | -- |

Notes:

bold - concentration greater than NR 140 PAL

boxed - concentration greater than NR 140 ES

* - collected pursuant to the WDNR-approved *Infiltration/Injection Request*

[1] - the temporary groundwater sampling point data was previously documented in the March 12, 2019 Site Investigation Work Plan (SIWP); refer to the SIWP for the analytical laboratory repo

[2] common laboratory preservative artifac

[3] - field instrument had operation/calibration issues

-- - not analyzed, not established or not applicable

ES - NR 140 Enforcement Standard

ft bgs - feet below groundwater surface

J - estimated concentration at or above the limit of detection and below the limit of quantitatio

mg/L - milligrams per liter

MNA - monitored natural attenuation

mS/cm - millisiemens per centimeter

mV - millivolts

PAL - NR 140 Preventive Action Limit

TOC - total organic carbon

µg/L - milligrams per liter

VOCs - volatile organics compounds

**TABLE 2**

**Summary of Groundwater Monitoring Well Construction Information**

Metro North Service Center (MNSC)

3100 West North Avenue

Milwaukee, Wisconsin

| Well ID. | Northing | Easting | Ground Surface Elevation | TOC Elevation | Screen Interval | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Depths | | Elevations | |
| | | | | | Top | Bottom | Top | Bottom |
| | ft | ft | (ft amsl) | (ft amsl) | (ft bgs) | (ft bgs) | (ft amsl) | (ft amsl) |
| MW-01-22 | 393332.9 | 2515416.6 | 695.97 | 695.64 | 5 | 15 | 690.97 | 680.97 |
| MW-01I-22 | 393333.0 | 2515412.2 | 696.13 | 695.43 | 38 | 48 | 658.13 | 648.13 |
| P-01-22 | 393333.1 | 2515407.4 | 696.12 | 695.34 | 60 | 65 | 636.12 | 631.12 |
| MW-02-22 | 393338.9 | 2515589.2 | 694.77 | 694.53 | 7 | 17 | 687.77 | 677.77 |
| MW-02I-22 | 393338.7 | 2515584.1 | 694.90 | 694.49 | 40 | 50 | 654.90 | 644.90 |
| MW-03-22 | 393323.7 | 2515265.0 | 696.87 | 696.34 | 7 | 17 | 689.87 | 679.87 |
| MW-03I-22 | 393319.7 | 2515264.7 | 696.97 | 696.45 | 43 | 53 | 653.97 | 643.97 |
| MW-04-22 | 393531.8 | 2515454.1 | 697.30 | 696.79 | 10 | 20 | 687.30 | 677.30 |
| MW-04I-22 | 393535.6 | 2515454.5 | 697.10 | 696.50 | 42 | 52 | 655.10 | 645.10 |
| MW-05-22 | 393471.5 | 2515569.0 | 690.49 | 690.00 | 7 | 17 | 683.49 | 673.49 |
| MW-05I-22 | 393467.2 | 2515569.1 | 690.49 | 690.11 | 36 | 46 | 654.49 | 644.49 |
| P-05-22 | 393462.5 | 2515569.2 | 690.49 | 690.05 | 56 | 61 | 634.49 | 629.49 |
| MW-06-22 | 393543.0 | 2515669.4 | 690.66 | 690.19 | 6 | 16 | 684.66 | 674.66 |
| MW-06I-22 | 393548.7 | 2515669.3 | 690.68 | 690.23 | 38 | 48 | 652.68 | 642.68 |
| P-06-22 | 393555.5 | 2515669.0 | 690.69 | 690.36 | 65 | 70 | 625.69 | 620.69 |

*Notes:*

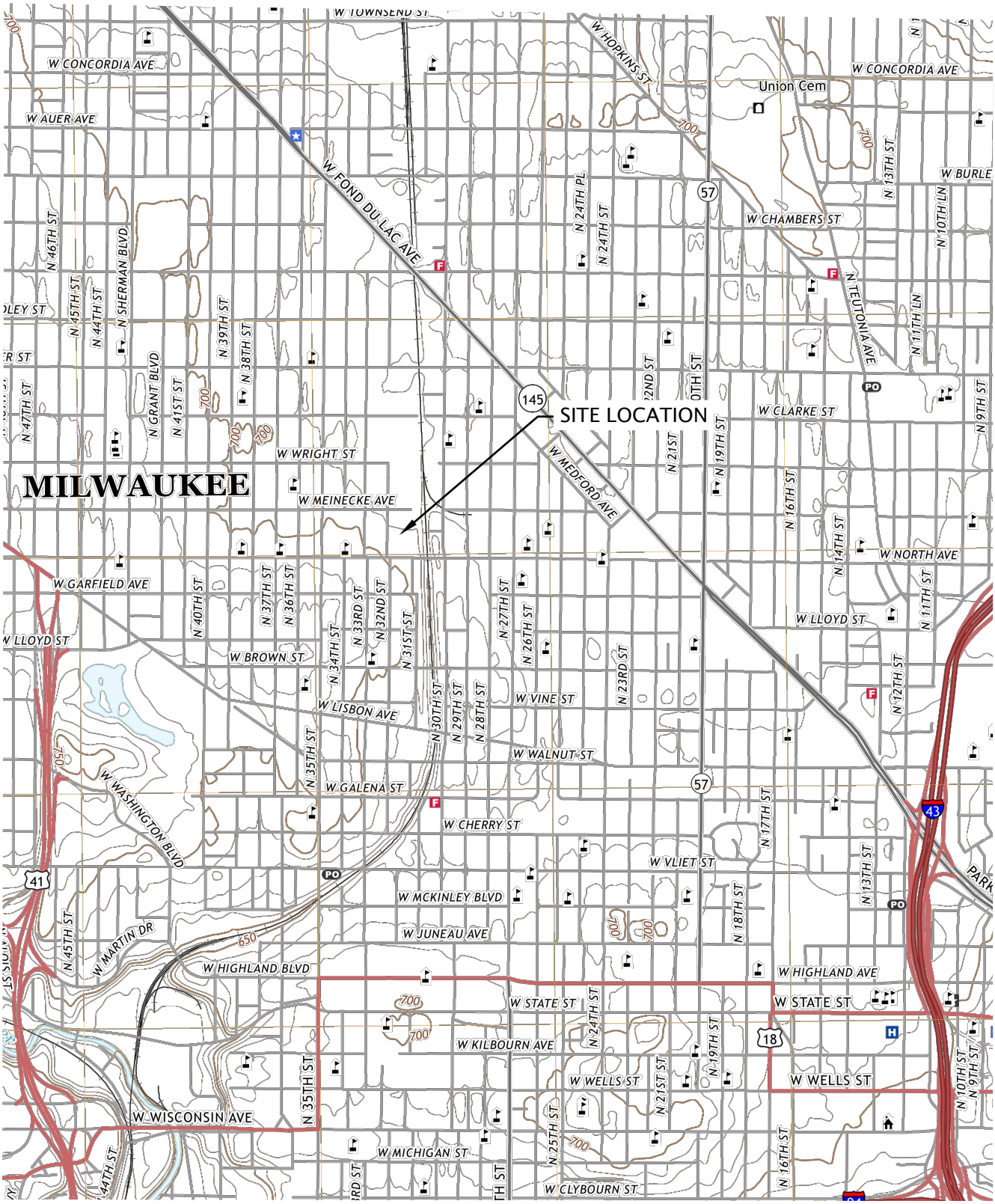
amsl - above mean sea level

bgs - below ground surface

ft - feet

TOC - top of casing

# FIGURES



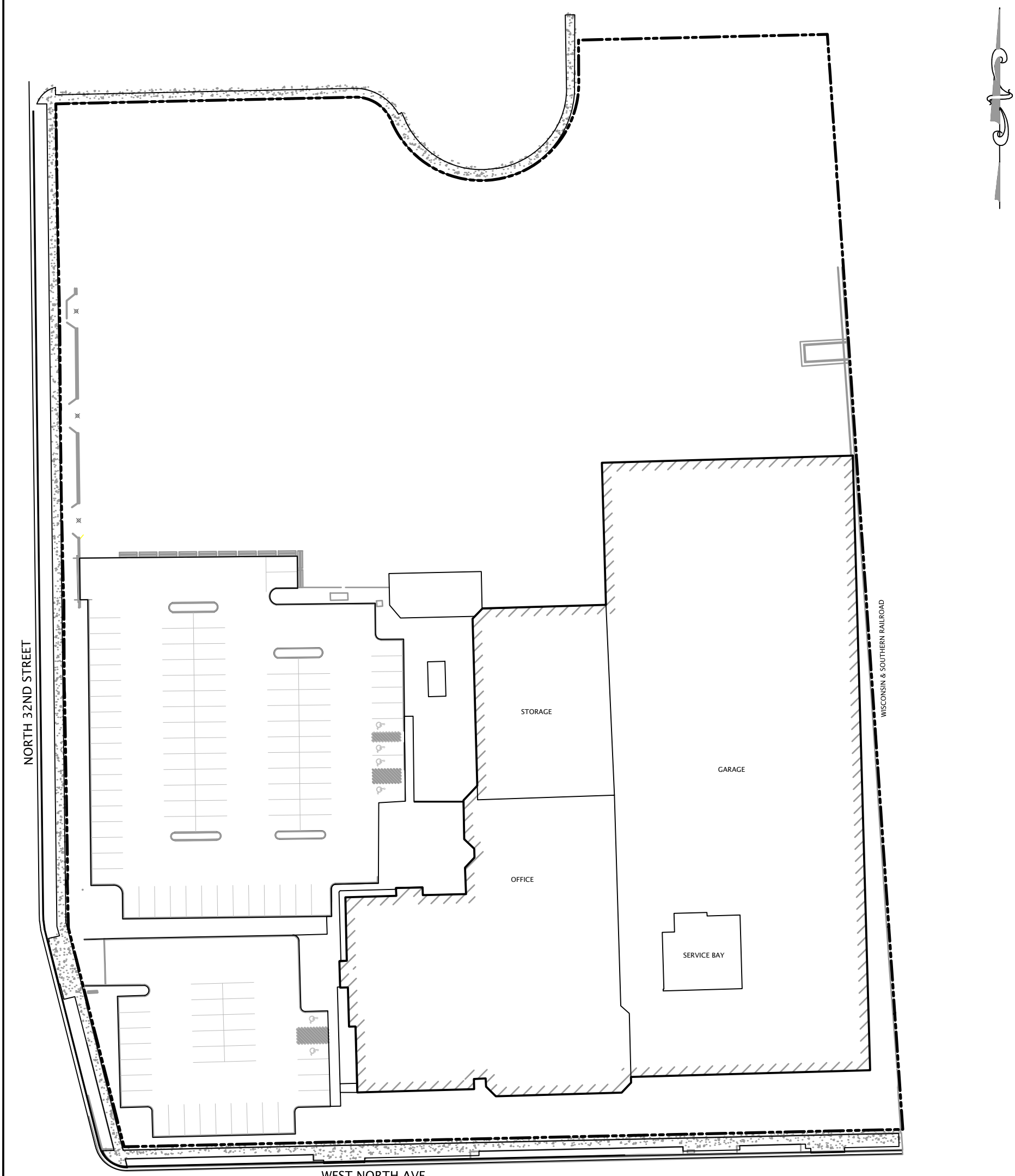

SOURCE: USGS MILWAUKEE, WISCONSIN QUADRANGLE
TOPOGRAPHIC MAPS 2018

SCALE IN FEET

0 2,000'

Geosyntec consultants

| | |
|---|---|
| CLIENT: | WE ENERGIES |
| PROJECT: | METRO NORTH SERVICE CENTER (MNSC)<br>3100 WEST NORTH AVENUE<br>MILWAUKEE, WISCONSIN |
| TITLE: | SITE LOCATION MAP |
| PROJECT: CHE8094OQ | FIGURE NO.: 1 |
| DATE: April 20, 2022 | FILE NO.: 2005MNSCP2001 |
| DRAWING NO.: | 1 OF 3 |




SCALE IN FEET

0 60'

LEGEND:

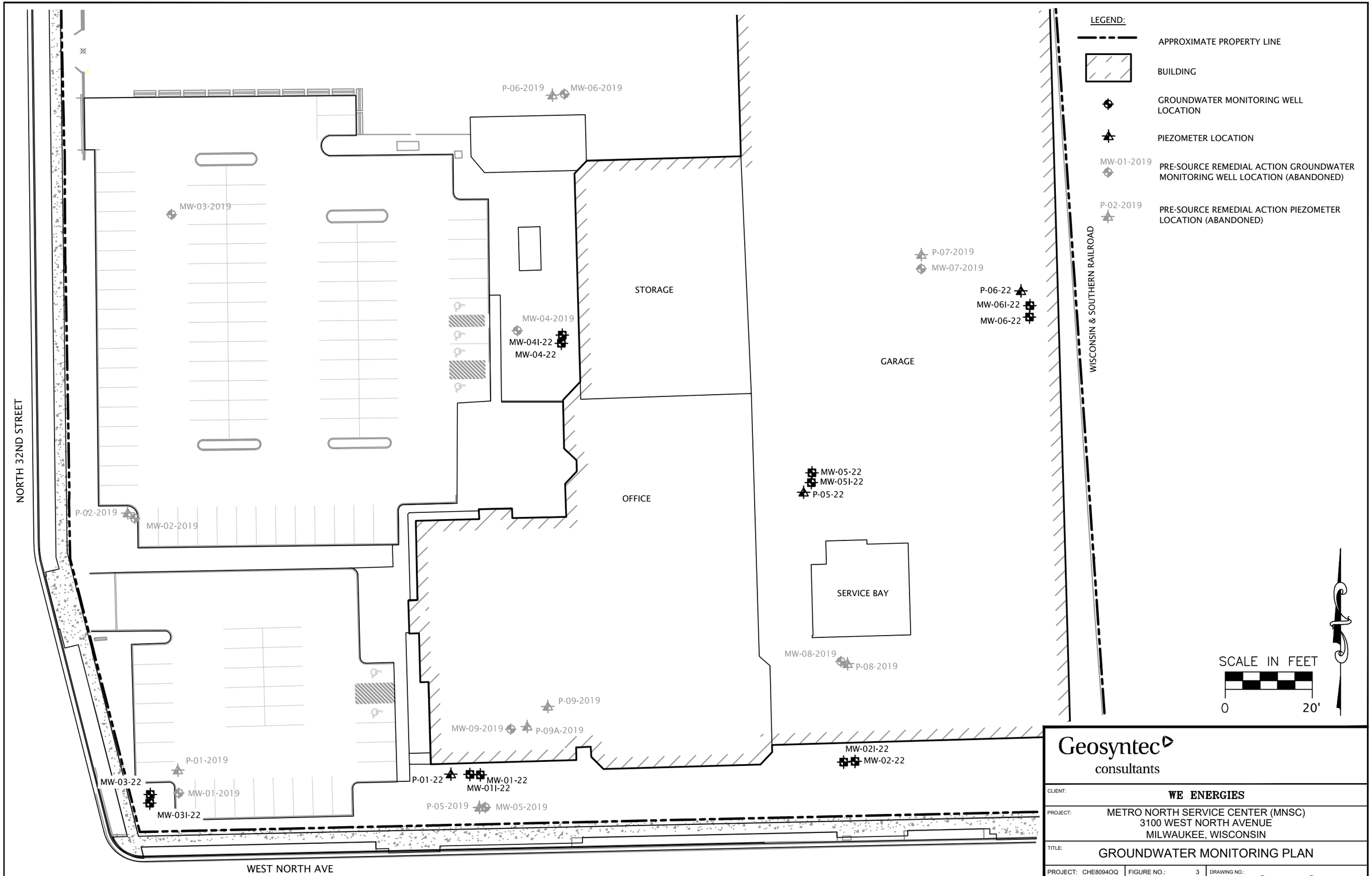
APPROXIMATE SITE PROPERTY LINE

SITE PROPERTY BUILDING

Geosyntec consultants

| | |
|---|---|
| CLIENT: | WE ENERGIES |
| PROJECT: | METRO NORTH SERVICE CENTER (MNSC)<br>3100 WEST NORTH AVENUE<br>MILWAUKEE, WISCONSIN |
| TITLE: | SITE LAYOUT MAP |

| | | |
|---|---|---|
| PROJECT: CHE8094OQ | FIGURE NO.: 2 | DRAWING NO.: 2 OF 3 |
| DATE: April 20, 2022 | FILE NO20-05 MNSCP2 001 | |




Geosyntec consultants

| | |
|---|---|
| CLIENT: | WE ENERGIES |
| PROJECT: | METRO NORTH SERVICE CENTER (MNSC)<br>3100 WEST NORTH AVENUE<br>MILWAUKEE, WISCONSIN |
| TITLE: | GROUNDWATER MONITORING PLAN |
| PROJECT: CHE8094OQ | FIGURE NO.: 3 |
| DATE: August 4, 2022 | FILE NO.22-08 MNSCP2 007 |
| DRAWING NO.: | 3 OF 3 |

# APPENDIX 1

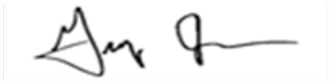
## NR 712.09 Submittal Certification

**Groundwater Monitoring Plan**
Metro North Service Center
3100 West North Avenue
Milwaukee, Wisconsin
WDNR BRRTS # 02-41-583015
WDNR FID # 241311510

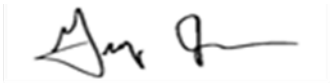
## NR 712.09 Submittal certification.

| | |
|---|---|
| Document Name | GROUNDWATER MONITORING PLAN |
| Document Date | August 12, 2022 |
| Site Name | Metro North Service Center |
| WDNR BRRTS # | 02-41-583015 |

"I, Greg Johnson, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

| | |
|---|---|
|  <br>Greg Johnson, P.H., P.G., P.E.<br>Senior Engineer<br>P.E. #: 29898-006 |  <br>8/12/2022 |
| Signature, title and P.E. number | P.E. stamp |

"I, Greg Johnson, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

| | |
|---|---|
|  | 8/12/2022 |
| Signature and title | Date |

"I, Jeremiah Johnson, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

| | |
|---|---|
|  | 8/12/2022 |
| Signature and title | Date |

# APPENDIX 2

# Pre-Source Remedial Action Additional Groundwater Investigation Data

Pace Analytical Laboratory Report 40211355, July 22, 2020
Pace Analytical Laboratory Report 40217031, November 4, 2020
In-Situ Hydraulic Conductivity Testing Data

**Groundwater Monitoring Plan**
Metro North Service Center
3100 West North Avenue
Milwaukee, Wisconsin
WDNR BRRTS # 02-41-583015
WDNR FID # 241311510

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

July 22, 2020

Jeremiah Johnson
GEOSYNTEC CONSULTANTS
10600 North Port Washington Rd
Suite 100
Thiensville, WI 53092

RE: Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

Dear Jeremiah Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on July 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: John Delwiche, We Energies
Frank Dombrowski, WE Energies
Beth Hellman, WE Energies
WE Energies Lab Reports, WE Energies

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

## CERTIFICATIONS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Pace Analytical Services Green Bay**
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: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **40211355001** | **MW-01-2019** | Water | 07/13/20 11:15 | 07/17/20 07:30 |
| **40211355002** | **P-01-2019** | Water | 07/14/20 10:45 | 07/17/20 07:30 |
| **40211355003** | **MW-02-2019** | Water | 07/13/20 14:15 | 07/17/20 07:30 |
| **40211355004** | **MW-03-2019** | Water | 07/13/20 15:20 | 07/17/20 07:30 |
| **40211355005** | **MW-04-2019** | Water | 07/13/20 13:10 | 07/17/20 07:30 |
| **40211355006** | **P-05-2019** | Water | 07/14/20 12:05 | 07/17/20 07:30 |
| **40211355007** | **MW-06-2019** | Water | 07/14/20 13:25 | 07/17/20 07:30 |
| **40211355008** | **MW-07-2019** | Water | 07/14/20 14:35 | 07/17/20 07:30 |
| **40211355009** | **P-07-2019** | Water | 07/14/20 15:50 | 07/17/20 07:30 |
| **40211355010** | **MW-08-2019** | Water | 07/15/20 10:45 | 07/17/20 07:30 |
| **40211355011** | **P-08-2019** | Water | 07/15/20 09:55 | 07/17/20 07:30 |
| **40211355012** | **MW-09-2019** | Water | 07/15/20 14:25 | 07/17/20 07:30 |
| **40211355013** | **P-09-2019** | Water | 07/15/20 15:30 | 07/17/20 07:30 |
| **40211355014** | **P-09A-2019** | Water | 07/15/20 13:30 | 07/17/20 07:30 |
| **40211355015** | **MW-01-2019 DUP** | Water | 07/13/20 11:15 | 07/17/20 07:30 |
| **40211355016** | **MW-03-2019 DUP** | Water | 07/13/20 15:20 | 07/17/20 07:30 |
| **40211355017** | **TRIP BLANK** | Water | 07/13/20 00:00 | 07/17/20 07:30 |
| **40211355018** | **EQUIPMENT BLANK** | Water | 07/16/20 08:10 | 07/17/20 07:30 |

Pace Analytical Services, LLC
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## SAMPLE ANALYTE COUNT

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **40211355001** | **MW-01-2019** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355002** | **P-01-2019** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355003** | **MW-02-2019** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355004** | **MW-03-2019** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355005** | **MW-04-2019** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355006** | **P-05-2019** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355007** | **MW-06-2019** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355008** | **MW-07-2019** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355009** | **P-07-2019** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355010** | **MW-08-2019** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355011** | **P-08-2019** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355012** | **MW-09-2019** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355013** | **P-09-2019** | EPA 8015B Modified | ALD | 3 |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
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## SAMPLE ANALYTE COUNT

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355014** | **P-09A-2019** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355015** | **MW-01-2019 DUP** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355016** | **MW-03-2019 DUP** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | SM 5310C | TJJ | 1 |
| **40211355017** | **TRIP BLANK** | EPA 8260 | HNW | 64 |
| **40211355018** | **EQUIPMENT BLANK** | EPA 8260 | HNW | 64 |

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1241 Bellevue Street - Suite 9
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-01-2019** **Lab ID: 40211355001** Collected: 07/13/20 11:15 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 11:43 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 11:43 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 11:43 | 74-82-8 | |
| **8260 MSV** | Analytical Method: EPA 8260<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 12:06 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 12:06 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 12:06 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 12:06 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 12:06 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 12:06 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 12:06 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 12:06 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 12:06 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 12:06 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 12:06 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 12:06 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 12:06 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 12:06 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 12:06 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 12:06 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 12:06 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 12:06 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 12:06 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 12:06 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 12:06 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 12:06 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 12:06 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 12:06 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 12:06 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 12:06 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 12:06 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 12:06 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 12:06 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 12:06 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 12:06 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 12:06 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 12:06 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 12:06 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 12:06 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 12:06 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 12:06 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 12:06 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 12:06 | 98-82-8 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-01-2019** **Lab ID: 40211355001** Collected: 07/13/20 11:15 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 12:06 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 12:06 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 12:06 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 12:06 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 12:06 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 12:06 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 12:06 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 12:06 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 12:06 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 12:06 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 12:06 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 12:06 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 12:06 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 12:06 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 12:06 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 12:06 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 12:06 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 12:06 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 12:06 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 12:06 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 12:06 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 12:06 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 91 | % | 70-130 | | 1 | | 07/20/20 12:06 | 460-00-4 | |
| Dibromofluoromethane (S) | 106 | % | 70-130 | | 1 | | 07/20/20 12:06 | 1868-53-7 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 07/20/20 12:06 | 2037-26-5 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **4.4** | mg/L | 0.50 | 0.14 | 1 | | 07/19/20 20:19 | 7440-44-0 | |

**Sample: P-01-2019** **Lab ID: 40211355002** Collected: 07/14/20 10:45 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 11:49 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 11:49 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 11:49 | 74-82-8 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: P-01-2019** **Lab ID: 40211355002** Collected: 07/14/20 10:45 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 12:28 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 12:28 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 12:28 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 12:28 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 12:28 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 12:28 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 12:28 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 12:28 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 12:28 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 12:28 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 12:28 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 12:28 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 12:28 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 12:28 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 12:28 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 12:28 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 12:28 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 12:28 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 12:28 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 12:28 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 12:28 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 12:28 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 12:28 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 12:28 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 12:28 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 12:28 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 12:28 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 12:28 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 12:28 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 12:28 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 12:28 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 12:28 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 12:28 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 12:28 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 12:28 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 12:28 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 12:28 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 12:28 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 12:28 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 12:28 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 12:28 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 12:28 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 12:28 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 12:28 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 12:28 | 100-42-5 | |

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: P-01-2019** **Lab ID: 40211355002** Collected: 07/14/20 10:45 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 12:28 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 12:28 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 12:28 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 12:28 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 12:28 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 12:28 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 12:28 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 12:28 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 12:28 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 12:28 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 12:28 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 12:28 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 12:28 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 12:28 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 12:28 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 12:28 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 89 | % | 70-130 | | 1 | | 07/20/20 12:28 | 460-00-4 | |
| Dibromofluoromethane (S) | 107 | % | 70-130 | | 1 | | 07/20/20 12:28 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 07/20/20 12:28 | 2037-26-5 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **1.5** | mg/L | 0.50 | 0.14 | 1 | | 07/19/20 21:16 | 7440-44-0 | |

**Sample: MW-02-2019** **Lab ID: 40211355003** Collected: 07/13/20 14:15 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 11:56 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 11:56 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 11:56 | 74-82-8 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 12:49 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 12:49 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 12:49 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 12:49 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 12:49 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 12:49 | 74-83-9 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-02-2019** **Lab ID: 40211355003** Collected: 07/13/20 14:15 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260<br>Pace Analytical Services - Green Bay | | | | | | | | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 12:49 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 12:49 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 12:49 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 12:49 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 12:49 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 12:49 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 12:49 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 12:49 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 12:49 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 12:49 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 12:49 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 12:49 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 12:49 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 12:49 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 12:49 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 12:49 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 12:49 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 12:49 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 12:49 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 12:49 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 12:49 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 12:49 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 12:49 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 12:49 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 12:49 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 12:49 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 12:49 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 12:49 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 12:49 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 12:49 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 12:49 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 12:49 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 12:49 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 12:49 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 12:49 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 12:49 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 12:49 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 12:49 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 12:49 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 12:49 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 12:49 | 79-34-5 | |
| Tetrachloroethene | **1.2** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 12:49 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 12:49 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 12:49 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 12:49 | 120-82-1 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-02-2019** **Lab ID: 40211355003** Collected: 07/13/20 14:15 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 12:49 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 12:49 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 12:49 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 12:49 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 12:49 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 12:49 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 12:49 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 12:49 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 12:49 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 12:49 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 90 | % | 70-130 | | 1 | | 07/20/20 12:49 | 460-00-4 | |
| Dibromofluoromethane (S) | 107 | % | 70-130 | | 1 | | 07/20/20 12:49 | 1868-53-7 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 07/20/20 12:49 | 2037-26-5 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **2.6** | mg/L | 0.50 | 0.14 | 1 | | 07/19/20 22:01 | 7440-44-0 | |

**Sample: MW-03-2019** **Lab ID: 40211355004** Collected: 07/13/20 15:20 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 12:03 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 12:03 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 12:03 | 74-82-8 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 13:10 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 13:10 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 13:10 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 13:10 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 13:10 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 13:10 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 13:10 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 13:10 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 13:10 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 13:10 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 13:10 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 13:10 | 75-00-3 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-03-2019** **Lab ID: 40211355004** Collected: 07/13/20 15:20 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 13:10 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 13:10 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 13:10 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 13:10 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 13:10 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 13:10 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 13:10 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 13:10 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 13:10 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 13:10 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 13:10 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 13:10 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 13:10 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 13:10 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 13:10 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 13:10 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 13:10 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 13:10 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 13:10 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 13:10 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 13:10 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 13:10 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 13:10 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 13:10 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 13:10 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 13:10 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 13:10 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 13:10 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 13:10 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 13:10 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 13:10 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 13:10 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 13:10 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 13:10 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 13:10 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 13:10 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 13:10 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 13:10 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 13:10 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 13:10 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 13:10 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 13:10 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 13:10 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 13:10 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 13:10 | 95-63-6 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-03-2019** **Lab ID: 40211355004** Collected: 07/13/20 15:20 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 13:10 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 13:10 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 13:10 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 13:10 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 91 | % | 70-130 | | 1 | | 07/20/20 13:10 | 460-00-4 | |
| Dibromofluoromethane (S) | 108 | % | 70-130 | | 1 | | 07/20/20 13:10 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 07/20/20 13:10 | 2037-26-5 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **1.3** | mg/L | 0.50 | 0.14 | 1 | | 07/19/20 22:22 | 7440-44-0 | |

**Sample: MW-04-2019** **Lab ID: 40211355005** Collected: 07/13/20 13:10 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 12:10 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 12:10 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 12:10 | 74-82-8 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 13:32 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 13:32 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 13:32 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 13:32 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 13:32 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 13:32 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 13:32 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 13:32 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 13:32 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 13:32 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 13:32 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 13:32 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 13:32 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 13:32 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 13:32 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 13:32 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 13:32 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 13:32 | 124-48-1 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-04-2019** **Lab ID: 40211355005** Collected: 07/13/20 13:10 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 13:32 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 13:32 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 13:32 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 13:32 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 13:32 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 13:32 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 13:32 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 13:32 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 13:32 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 13:32 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 13:32 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 13:32 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 13:32 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 13:32 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 13:32 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 13:32 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 13:32 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 13:32 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 13:32 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 13:32 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 13:32 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 13:32 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 13:32 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 13:32 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 13:32 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 13:32 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 13:32 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 13:32 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 13:32 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 13:32 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 13:32 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 13:32 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 13:32 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 13:32 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 13:32 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 13:32 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 13:32 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 13:32 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 13:32 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 13:32 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 13:32 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 13:32 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 13:32 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 90 | % | 70-130 | | 1 | | 07/20/20 13:32 | 460-00-4 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-04-2019** **Lab ID: 40211355005** Collected: 07/13/20 13:10 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 107 | % | 70-130 | | 1 | | 07/20/20 13:32 | 1868-53-7 | |
| Toluene-d8 (S) | 103 | % | 70-130 | | 1 | | 07/20/20 13:32 | 2037-26-5 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **3.5** | mg/L | 0.50 | 0.14 | 1 | | 07/19/20 22:44 | 7440-44-0 | |

**Sample: P-05-2019** **Lab ID: 40211355006** Collected: 07/14/20 12:05 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 12:17 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 12:17 | 74-85-1 | |
| Methane | **3.0** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 12:17 | 74-82-8 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 13:53 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 13:53 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 13:53 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 13:53 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 13:53 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 13:53 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 13:53 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 13:53 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 13:53 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 13:53 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 13:53 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 13:53 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 13:53 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 13:53 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 13:53 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 13:53 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 13:53 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 13:53 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 13:53 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 13:53 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 13:53 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 13:53 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 13:53 | 106-46-7 | |

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: P-05-2019** **Lab ID: 40211355006** Collected: 07/14/20 12:05 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 13:53 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 13:53 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 13:53 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 13:53 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 13:53 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 13:53 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 13:53 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 13:53 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 13:53 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 13:53 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 13:53 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 13:53 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 13:53 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 13:53 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 13:53 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 13:53 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 13:53 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 13:53 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 13:53 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 13:53 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 13:53 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 13:53 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 13:53 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 13:53 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 13:53 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 13:53 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 13:53 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 13:53 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 13:53 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 13:53 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 13:53 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 13:53 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 13:53 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 13:53 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 13:53 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 13:53 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 13:53 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 13:53 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 90 | % | 70-130 | | 1 | | 07/20/20 13:53 | 460-00-4 | |
| Dibromofluoromethane (S) | 107 | % | 70-130 | | 1 | | 07/20/20 13:53 | 1868-53-7 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 07/20/20 13:53 | 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: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: P-05-2019** **Lab ID: 40211355006** Collected: 07/14/20 12:05 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **5310C TOC** | Analytical Method: SM 5310C<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **1.2** | mg/L | 0.50 | 0.14 | 1 | | 07/19/20 23:03 | 7440-44-0 | |

**Sample: MW-06-2019** **Lab ID: 40211355007** Collected: 07/14/20 13:25 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 12:45 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 12:45 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 12:45 | 74-82-8 | |
| **8260 MSV** | Analytical Method: EPA 8260<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 14:15 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 14:15 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 14:15 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 14:15 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 14:15 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 14:15 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 14:15 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 14:15 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 14:15 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 14:15 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 14:15 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 14:15 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 14:15 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 14:15 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 14:15 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 14:15 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 14:15 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 14:15 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 14:15 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 14:15 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 14:15 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 14:15 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 14:15 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 14:15 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 14:15 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 14:15 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 14:15 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 14:15 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 14:15 | 156-60-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-06-2019** **Lab ID: 40211355007** Collected: 07/14/20 13:25 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 14:15 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 14:15 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 14:15 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 14:15 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 14:15 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 14:15 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 14:15 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 14:15 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 14:15 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 14:15 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 14:15 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 14:15 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 14:15 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 14:15 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 14:15 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 14:15 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 14:15 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 14:15 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 14:15 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 14:15 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 14:15 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 14:15 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 14:15 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 14:15 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 14:15 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 14:15 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 14:15 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 14:15 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 14:15 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 14:15 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 14:15 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 14:15 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 90 | % | 70-130 | | 1 | | 07/20/20 14:15 | 460-00-4 | |
| Dibromofluoromethane (S) | 108 | % | 70-130 | | 1 | | 07/20/20 14:15 | 1868-53-7 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 07/20/20 14:15 | 2037-26-5 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **1.6** | mg/L | 0.50 | 0.14 | 1 | | 07/19/20 23:23 | 7440-44-0 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-07-2019** **Lab ID: 40211355008** Collected: 07/14/20 14:35 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 12:52 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 12:52 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 12:52 | 74-82-8 | |
| **8260 MSV** | Analytical Method: EPA 8260<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 11:02 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 11:02 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 11:02 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 11:02 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 11:02 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 11:02 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 11:02 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 11:02 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 11:02 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 11:02 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 11:02 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 11:02 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 11:02 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 11:02 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 11:02 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 11:02 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 11:02 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 11:02 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 11:02 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 11:02 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 11:02 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 11:02 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 11:02 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 11:02 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 11:02 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 11:02 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 11:02 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 11:02 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 11:02 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 11:02 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 11:02 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 11:02 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 11:02 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 11:02 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 11:02 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 11:02 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 11:02 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 11:02 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 11:02 | 98-82-8 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-07-2019** **Lab ID: 40211355008** Collected: 07/14/20 14:35 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 11:02 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 11:02 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 11:02 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 11:02 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 11:02 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 11:02 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 11:02 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 11:02 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 11:02 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 11:02 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 11:02 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 11:02 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 11:02 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 11:02 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 11:02 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 11:02 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 11:02 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 11:02 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 11:02 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 11:02 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 11:02 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 11:02 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 92 | % | 70-130 | | 1 | | 07/20/20 11:02 | 460-00-4 | |
| Dibromofluoromethane (S) | 105 | % | 70-130 | | 1 | | 07/20/20 11:02 | 1868-53-7 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 07/20/20 11:02 | 2037-26-5 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **1.6** | mg/L | 1.5 | 0.42 | 3 | | 07/21/20 09:43 | 7440-44-0 | |

**Sample: P-07-2019** **Lab ID: 40211355009** Collected: 07/14/20 15:50 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 12:59 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 12:59 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 12:59 | 74-82-8 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: P-07-2019** **Lab ID: 40211355009** Collected: 07/14/20 15:50 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 14:36 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 14:36 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 14:36 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 14:36 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 14:36 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 14:36 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 14:36 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 14:36 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 14:36 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 14:36 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 14:36 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 14:36 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 14:36 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 14:36 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 14:36 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 14:36 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 14:36 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 14:36 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 14:36 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 14:36 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 14:36 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 14:36 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 14:36 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 14:36 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 14:36 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 14:36 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 14:36 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 14:36 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 14:36 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 14:36 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 14:36 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 14:36 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 14:36 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 14:36 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 14:36 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 14:36 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 14:36 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 14:36 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 14:36 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 14:36 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 14:36 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 14:36 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 14:36 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 14:36 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 14:36 | 100-42-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: P-07-2019** **Lab ID: 40211355009** Collected: 07/14/20 15:50 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 14:36 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 14:36 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 14:36 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 14:36 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 14:36 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 14:36 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 14:36 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 14:36 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 14:36 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 14:36 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 14:36 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 14:36 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 14:36 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 14:36 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 14:36 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 14:36 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 91 | % | 70-130 | | 1 | | 07/20/20 14:36 | 460-00-4 | |
| Dibromofluoromethane (S) | 107 | % | 70-130 | | 1 | | 07/20/20 14:36 | 1868-53-7 | |
| Toluene-d8 (S) | 103 | % | 70-130 | | 1 | | 07/20/20 14:36 | 2037-26-5 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **1.0** | mg/L | 0.50 | 0.14 | 1 | | 07/20/20 00:44 | 7440-44-0 | |

**Sample: MW-08-2019** **Lab ID: 40211355010** Collected: 07/15/20 10:45 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 13:05 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 13:05 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 13:05 | 74-82-8 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 14:58 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 14:58 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 14:58 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 14:58 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 14:58 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 14:58 | 74-83-9 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-08-2019** **Lab ID: 40211355010** Collected: 07/15/20 10:45 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260<br>Pace Analytical Services - Green Bay | | | | | | | | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 14:58 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 14:58 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 14:58 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 14:58 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 14:58 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 14:58 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 14:58 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 14:58 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 14:58 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 14:58 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 14:58 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 14:58 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 14:58 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 14:58 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 14:58 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 14:58 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 14:58 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 14:58 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 14:58 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 14:58 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 14:58 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 14:58 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 14:58 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 14:58 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 14:58 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 14:58 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 14:58 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 14:58 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 14:58 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 14:58 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 14:58 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 14:58 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 14:58 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 14:58 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 14:58 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 14:58 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 14:58 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 14:58 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 14:58 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 14:58 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 14:58 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 14:58 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 14:58 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 14:58 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 14:58 | 120-82-1 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-08-2019** **Lab ID: 40211355010** Collected: 07/15/20 10:45 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 14:58 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 14:58 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 14:58 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 14:58 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 14:58 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 14:58 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 14:58 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 14:58 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 14:58 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 14:58 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 90 | % | 70-130 | | 1 | | 07/20/20 14:58 | 460-00-4 | |
| Dibromofluoromethane (S) | 108 | % | 70-130 | | 1 | | 07/20/20 14:58 | 1868-53-7 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 07/20/20 14:58 | 2037-26-5 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **0.22J** | mg/L | 0.50 | 0.14 | 1 | | 07/21/20 07:41 | 7440-44-0 | |

**Sample: P-08-2019** **Lab ID: 40211355011** Collected: 07/15/20 09:55 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 13:12 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 13:12 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 13:12 | 74-82-8 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 15:19 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 15:19 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 15:19 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 15:19 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 15:19 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 15:19 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 15:19 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 15:19 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 15:19 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 15:19 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 15:19 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 15:19 | 75-00-3 | |

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: P-08-2019** **Lab ID: 40211355011** Collected: 07/15/20 09:55 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 15:19 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 15:19 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 15:19 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 15:19 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 15:19 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 15:19 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 15:19 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 15:19 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 15:19 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 15:19 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 15:19 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 15:19 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 15:19 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 15:19 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 15:19 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 15:19 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 15:19 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 15:19 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 15:19 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 15:19 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 15:19 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 15:19 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 15:19 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 15:19 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 15:19 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 15:19 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 15:19 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 15:19 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 15:19 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 15:19 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 15:19 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 15:19 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 15:19 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 15:19 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 15:19 | 79-34-5 | |
| Tetrachloroethene | **0.37J** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 15:19 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 15:19 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 15:19 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 15:19 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 15:19 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 15:19 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 15:19 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 15:19 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 15:19 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 15:19 | 95-63-6 | |

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: P-08-2019** **Lab ID: 40211355011** Collected: 07/15/20 09:55 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 15:19 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 15:19 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 15:19 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 15:19 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 92 | % | 70-130 | | 1 | | 07/20/20 15:19 | 460-00-4 | |
| Dibromofluoromethane (S) | 108 | % | 70-130 | | 1 | | 07/20/20 15:19 | 1868-53-7 | |
| Toluene-d8 (S) | 105 | % | 70-130 | | 1 | | 07/20/20 15:19 | 2037-26-5 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **1.1** | mg/L | 0.50 | 0.14 | 1 | | 07/20/20 01:41 | 7440-44-0 | |

**Sample: MW-09-2019** **Lab ID: 40211355012** Collected: 07/15/20 14:25 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 13:19 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 13:19 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 13:19 | 74-82-8 | |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<123** | ug/L | 500 | 123 | 500 | | 07/20/20 11:23 | 71-43-2 | |
| Bromobenzene | **<121** | ug/L | 500 | 121 | 500 | | 07/20/20 11:23 | 108-86-1 | |
| Bromochloromethane | **<181** | ug/L | 2500 | 181 | 500 | | 07/20/20 11:23 | 74-97-5 | |
| Bromodichloromethane | **<182** | ug/L | 606 | 182 | 500 | | 07/20/20 11:23 | 75-27-4 | |
| Bromoform | **<1990** | ug/L | 6620 | 1990 | 500 | | 07/20/20 11:23 | 75-25-2 | |
| Bromomethane | **<486** | ug/L | 2500 | 486 | 500 | | 07/20/20 11:23 | 74-83-9 | |
| n-Butylbenzene | **<354** | ug/L | 1180 | 354 | 500 | | 07/20/20 11:23 | 104-51-8 | |
| sec-Butylbenzene | **<424** | ug/L | 2500 | 424 | 500 | | 07/20/20 11:23 | 135-98-8 | |
| tert-Butylbenzene | **<152** | ug/L | 506 | 152 | 500 | | 07/20/20 11:23 | 98-06-6 | |
| Carbon tetrachloride | **<538** | ug/L | 1790 | 538 | 500 | | 07/20/20 11:23 | 56-23-5 | |
| Chlorobenzene | **<355** | ug/L | 1180 | 355 | 500 | | 07/20/20 11:23 | 108-90-7 | |
| Chloroethane | **<671** | ug/L | 2500 | 671 | 500 | | 07/20/20 11:23 | 75-00-3 | |
| Chloroform | **<637** | ug/L | 2500 | 637 | 500 | | 07/20/20 11:23 | 67-66-3 | |
| Chloromethane | **<1090** | ug/L | 3650 | 1090 | 500 | | 07/20/20 11:23 | 74-87-3 | |
| 2-Chlorotoluene | **<463** | ug/L | 2500 | 463 | 500 | | 07/20/20 11:23 | 95-49-8 | |
| 4-Chlorotoluene | **<378** | ug/L | 1260 | 378 | 500 | | 07/20/20 11:23 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<882** | ug/L | 2940 | 882 | 500 | | 07/20/20 11:23 | 96-12-8 | |
| Dibromochloromethane | **<1300** | ug/L | 4340 | 1300 | 500 | | 07/20/20 11:23 | 124-48-1 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-09-2019** **Lab ID: 40211355012** Collected: 07/15/20 14:25 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| 1,2-Dibromoethane (EDB) | **<415** | ug/L | 1380 | 415 | 500 | | 07/20/20 11:23 | 106-93-4 | |
| Dibromomethane | **<468** | ug/L | 1560 | 468 | 500 | | 07/20/20 11:23 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<353** | ug/L | 1180 | 353 | 500 | | 07/20/20 11:23 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<314** | ug/L | 1050 | 314 | 500 | | 07/20/20 11:23 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<472** | ug/L | 1570 | 472 | 500 | | 07/20/20 11:23 | 106-46-7 | |
| Dichlorodifluoromethane | **<250** | ug/L | 2500 | 250 | 500 | | 07/20/20 11:23 | 75-71-8 | |
| 1,1-Dichloroethane | **<136** | ug/L | 500 | 136 | 500 | | 07/20/20 11:23 | 75-34-3 | |
| 1,2-Dichloroethane | **<140** | ug/L | 500 | 140 | 500 | | 07/20/20 11:23 | 107-06-2 | |
| 1,1-Dichloroethene | **<122** | ug/L | 500 | 122 | 500 | | 07/20/20 11:23 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<136** | ug/L | 500 | 136 | 500 | | 07/20/20 11:23 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<232** | ug/L | 774 | 232 | 500 | | 07/20/20 11:23 | 156-60-5 | |
| 1,2-Dichloropropane | **<141** | ug/L | 500 | 141 | 500 | | 07/20/20 11:23 | 78-87-5 | |
| 1,3-Dichloropropane | **<413** | ug/L | 1380 | 413 | 500 | | 07/20/20 11:23 | 142-28-9 | |
| 2,2-Dichloropropane | **<1130** | ug/L | 3780 | 1130 | 500 | | 07/20/20 11:23 | 594-20-7 | |
| 1,1-Dichloropropene | **<270** | ug/L | 900 | 270 | 500 | | 07/20/20 11:23 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<1810** | ug/L | 6050 | 1810 | 500 | | 07/20/20 11:23 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<2190** | ug/L | 7280 | 2190 | 500 | | 07/20/20 11:23 | 10061-02-6 | |
| Diisopropyl ether | **<944** | ug/L | 3150 | 944 | 500 | | 07/20/20 11:23 | 108-20-3 | |
| Ethylbenzene | **<159** | ug/L | 531 | 159 | 500 | | 07/20/20 11:23 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<731** | ug/L | 2440 | 731 | 500 | | 07/20/20 11:23 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<843** | ug/L | 2810 | 843 | 500 | | 07/20/20 11:23 | 98-82-8 | |
| p-Isopropyltoluene | **<400** | ug/L | 1330 | 400 | 500 | | 07/20/20 11:23 | 99-87-6 | |
| Methylene Chloride | **<290** | ug/L | 2500 | 290 | 500 | | 07/20/20 11:23 | 75-09-2 | |
| Methyl-tert-butyl ether | **<623** | ug/L | 2080 | 623 | 500 | | 07/20/20 11:23 | 1634-04-4 | |
| Naphthalene | **<588** | ug/L | 2500 | 588 | 500 | | 07/20/20 11:23 | 91-20-3 | |
| n-Propylbenzene | **<405** | ug/L | 2500 | 405 | 500 | | 07/20/20 11:23 | 103-65-1 | |
| Styrene | **<1500** | ug/L | 5020 | 1500 | 500 | | 07/20/20 11:23 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<135** | ug/L | 500 | 135 | 500 | | 07/20/20 11:23 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<138** | ug/L | 500 | 138 | 500 | | 07/20/20 11:23 | 79-34-5 | |
| Tetrachloroethene | **25100** | ug/L | 544 | 163 | 500 | | 07/20/20 11:23 | 127-18-4 | |
| Toluene | **<135** | ug/L | 449 | 135 | 500 | | 07/20/20 11:23 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<1110** | ug/L | 3680 | 1110 | 500 | | 07/20/20 11:23 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<476** | ug/L | 2500 | 476 | 500 | | 07/20/20 11:23 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<122** | ug/L | 500 | 122 | 500 | | 07/20/20 11:23 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<276** | ug/L | 2500 | 276 | 500 | | 07/20/20 11:23 | 79-00-5 | |
| Trichloroethene | **<128** | ug/L | 500 | 128 | 500 | | 07/20/20 11:23 | 79-01-6 | |
| Trichlorofluoromethane | **<107** | ug/L | 500 | 107 | 500 | | 07/20/20 11:23 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<295** | ug/L | 2500 | 295 | 500 | | 07/20/20 11:23 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<420** | ug/L | 1400 | 420 | 500 | | 07/20/20 11:23 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<437** | ug/L | 1460 | 437 | 500 | | 07/20/20 11:23 | 108-67-8 | |
| Vinyl chloride | **<87.3** | ug/L | 500 | 87.3 | 500 | | 07/20/20 11:23 | 75-01-4 | |
| m&p-Xylene | **<233** | ug/L | 1000 | 233 | 500 | | 07/20/20 11:23 | 179601-23-1 | |
| o-Xylene | **<131** | ug/L | 500 | 131 | 500 | | 07/20/20 11:23 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 90 | % | 70-130 | | 500 | | 07/20/20 11:23 | 460-00-4 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-09-2019** **Lab ID: 40211355012** Collected: 07/15/20 14:25 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 106 | % | 70-130 | | 500 | | 07/20/20 11:23 | 1868-53-7 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 500 | | 07/20/20 11:23 | 2037-26-5 | |
| **5310C TOC** | Analytical Method: SM 5310C Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **0.28J** | mg/L | 0.50 | 0.14 | 1 | | 07/20/20 01:59 | 7440-44-0 | |

**Sample: P-09-2019** **Lab ID: 40211355013** Collected: 07/15/20 15:30 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 13:26 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 13:26 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 13:26 | 74-82-8 | |
| **8260 MSV** | Analytical Method: EPA 8260 Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.49** | ug/L | 2.0 | 0.49 | 2 | | 07/20/20 11:45 | 71-43-2 | |
| Bromobenzene | **<0.48** | ug/L | 2.0 | 0.48 | 2 | | 07/20/20 11:45 | 108-86-1 | |
| Bromochloromethane | **<0.72** | ug/L | 10.0 | 0.72 | 2 | | 07/20/20 11:45 | 74-97-5 | |
| Bromodichloromethane | **<0.73** | ug/L | 2.4 | 0.73 | 2 | | 07/20/20 11:45 | 75-27-4 | |
| Bromoform | **<7.9** | ug/L | 26.5 | 7.9 | 2 | | 07/20/20 11:45 | 75-25-2 | |
| Bromomethane | **<1.9** | ug/L | 10.0 | 1.9 | 2 | | 07/20/20 11:45 | 74-83-9 | |
| n-Butylbenzene | **<1.4** | ug/L | 4.7 | 1.4 | 2 | | 07/20/20 11:45 | 104-51-8 | |
| sec-Butylbenzene | **<1.7** | ug/L | 10.0 | 1.7 | 2 | | 07/20/20 11:45 | 135-98-8 | |
| tert-Butylbenzene | **<0.61** | ug/L | 2.0 | 0.61 | 2 | | 07/20/20 11:45 | 98-06-6 | |
| Carbon tetrachloride | **<2.2** | ug/L | 7.2 | 2.2 | 2 | | 07/20/20 11:45 | 56-23-5 | |
| Chlorobenzene | **<1.4** | ug/L | 4.7 | 1.4 | 2 | | 07/20/20 11:45 | 108-90-7 | |
| Chloroethane | **<2.7** | ug/L | 10.0 | 2.7 | 2 | | 07/20/20 11:45 | 75-00-3 | |
| Chloroform | **<2.5** | ug/L | 10.0 | 2.5 | 2 | | 07/20/20 11:45 | 67-66-3 | |
| Chloromethane | **<4.4** | ug/L | 14.6 | 4.4 | 2 | | 07/20/20 11:45 | 74-87-3 | |
| 2-Chlorotoluene | **<1.9** | ug/L | 10.0 | 1.9 | 2 | | 07/20/20 11:45 | 95-49-8 | |
| 4-Chlorotoluene | **<1.5** | ug/L | 5.0 | 1.5 | 2 | | 07/20/20 11:45 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<3.5** | ug/L | 11.8 | 3.5 | 2 | | 07/20/20 11:45 | 96-12-8 | |
| Dibromochloromethane | **<5.2** | ug/L | 17.3 | 5.2 | 2 | | 07/20/20 11:45 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<1.7** | ug/L | 5.5 | 1.7 | 2 | | 07/20/20 11:45 | 106-93-4 | |
| Dibromomethane | **<1.9** | ug/L | 6.2 | 1.9 | 2 | | 07/20/20 11:45 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<1.4** | ug/L | 4.7 | 1.4 | 2 | | 07/20/20 11:45 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<1.3** | ug/L | 4.2 | 1.3 | 2 | | 07/20/20 11:45 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<1.9** | ug/L | 6.3 | 1.9 | 2 | | 07/20/20 11:45 | 106-46-7 | |

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: P-09-2019** **Lab ID: 40211355013** Collected: 07/15/20 15:30 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Dichlorodifluoromethane | **<1.0** | ug/L | 10.0 | 1.0 | 2 | | 07/20/20 11:45 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.55** | ug/L | 2.0 | 0.55 | 2 | | 07/20/20 11:45 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.56** | ug/L | 2.0 | 0.56 | 2 | | 07/20/20 11:45 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.49** | ug/L | 2.0 | 0.49 | 2 | | 07/20/20 11:45 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.54** | ug/L | 2.0 | 0.54 | 2 | | 07/20/20 11:45 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.93** | ug/L | 3.1 | 0.93 | 2 | | 07/20/20 11:45 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.57** | ug/L | 2.0 | 0.57 | 2 | | 07/20/20 11:45 | 78-87-5 | |
| 1,3-Dichloropropane | **<1.7** | ug/L | 5.5 | 1.7 | 2 | | 07/20/20 11:45 | 142-28-9 | |
| 2,2-Dichloropropane | **<4.5** | ug/L | 15.1 | 4.5 | 2 | | 07/20/20 11:45 | 594-20-7 | |
| 1,1-Dichloropropene | **<1.1** | ug/L | 3.6 | 1.1 | 2 | | 07/20/20 11:45 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<7.3** | ug/L | 24.2 | 7.3 | 2 | | 07/20/20 11:45 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<8.7** | ug/L | 29.1 | 8.7 | 2 | | 07/20/20 11:45 | 10061-02-6 | |
| Diisopropyl ether | **<3.8** | ug/L | 12.6 | 3.8 | 2 | | 07/20/20 11:45 | 108-20-3 | |
| Ethylbenzene | **<0.64** | ug/L | 2.1 | 0.64 | 2 | | 07/20/20 11:45 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<2.9** | ug/L | 9.8 | 2.9 | 2 | | 07/20/20 11:45 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<3.4** | ug/L | 11.2 | 3.4 | 2 | | 07/20/20 11:45 | 98-82-8 | |
| p-Isopropyltoluene | **<1.6** | ug/L | 5.3 | 1.6 | 2 | | 07/20/20 11:45 | 99-87-6 | |
| Methylene Chloride | **<1.2** | ug/L | 10.0 | 1.2 | 2 | | 07/20/20 11:45 | 75-09-2 | |
| Methyl-tert-butyl ether | **<2.5** | ug/L | 8.3 | 2.5 | 2 | | 07/20/20 11:45 | 1634-04-4 | |
| Naphthalene | **<2.4** | ug/L | 10.0 | 2.4 | 2 | | 07/20/20 11:45 | 91-20-3 | |
| n-Propylbenzene | **<1.6** | ug/L | 10.0 | 1.6 | 2 | | 07/20/20 11:45 | 103-65-1 | |
| Styrene | **<6.0** | ug/L | 20.1 | 6.0 | 2 | | 07/20/20 11:45 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.54** | ug/L | 2.0 | 0.54 | 2 | | 07/20/20 11:45 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.55** | ug/L | 2.0 | 0.55 | 2 | | 07/20/20 11:45 | 79-34-5 | |
| Tetrachloroethene | **217** | ug/L | 2.2 | 0.65 | 2 | | 07/20/20 11:45 | 127-18-4 | |
| Toluene | **<0.54** | ug/L | 1.8 | 0.54 | 2 | | 07/20/20 11:45 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<4.4** | ug/L | 14.7 | 4.4 | 2 | | 07/20/20 11:45 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<1.9** | ug/L | 10.0 | 1.9 | 2 | | 07/20/20 11:45 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.49** | ug/L | 2.0 | 0.49 | 2 | | 07/20/20 11:45 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<1.1** | ug/L | 10.0 | 1.1 | 2 | | 07/20/20 11:45 | 79-00-5 | |
| Trichloroethene | **<0.51** | ug/L | 2.0 | 0.51 | 2 | | 07/20/20 11:45 | 79-01-6 | |
| Trichlorofluoromethane | **<0.43** | ug/L | 2.0 | 0.43 | 2 | | 07/20/20 11:45 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<1.2** | ug/L | 10.0 | 1.2 | 2 | | 07/20/20 11:45 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<1.7** | ug/L | 5.6 | 1.7 | 2 | | 07/20/20 11:45 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<1.7** | ug/L | 5.8 | 1.7 | 2 | | 07/20/20 11:45 | 108-67-8 | |
| Vinyl chloride | **<0.35** | ug/L | 2.0 | 0.35 | 2 | | 07/20/20 11:45 | 75-01-4 | |
| m&p-Xylene | **<0.93** | ug/L | 4.0 | 0.93 | 2 | | 07/20/20 11:45 | 179601-23-1 | |
| o-Xylene | **<0.52** | ug/L | 2.0 | 0.52 | 2 | | 07/20/20 11:45 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 89 | % | 70-130 | | 2 | | 07/20/20 11:45 | 460-00-4 | |
| Dibromofluoromethane (S) | 106 | % | 70-130 | | 2 | | 07/20/20 11:45 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 2 | | 07/20/20 11:45 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: P-09-2019** **Lab ID: 40211355013** Collected: 07/15/20 15:30 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **5310C TOC** | Analytical Method: SM 5310C<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **1.7** | mg/L | 0.50 | 0.14 | 1 | | 07/20/20 02:15 | 7440-44-0 | |

**Sample: P-09A-2019** **Lab ID: 40211355014** Collected: 07/15/20 13:30 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 13:33 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 13:33 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 13:33 | 74-82-8 | |
| **8260 MSV** | Analytical Method: EPA 8260<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 15:41 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 15:41 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 15:41 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 15:41 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 15:41 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 15:41 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 15:41 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 15:41 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 15:41 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 15:41 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 15:41 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 15:41 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 15:41 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 15:41 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 15:41 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 15:41 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 15:41 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 15:41 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 15:41 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 15:41 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 15:41 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 15:41 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 15:41 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 15:41 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 15:41 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 15:41 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 15:41 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 15:41 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 15:41 | 156-60-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: P-09A-2019** **Lab ID: 40211355014** Collected: 07/15/20 13:30 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 15:41 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 15:41 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 15:41 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 15:41 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 15:41 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 15:41 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 15:41 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 15:41 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 15:41 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 15:41 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 15:41 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 15:41 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 15:41 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 15:41 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 15:41 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 15:41 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 15:41 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 15:41 | 79-34-5 | |
| Tetrachloroethene | **10.8** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 15:41 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 15:41 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 15:41 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 15:41 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 15:41 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 15:41 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 15:41 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 15:41 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 15:41 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 15:41 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 15:41 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 15:41 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 15:41 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 15:41 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 89 | % | 70-130 | | 1 | | 07/20/20 15:41 | 460-00-4 | |
| Dibromofluoromethane (S) | 109 | % | 70-130 | | 1 | | 07/20/20 15:41 | 1868-53-7 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 07/20/20 15:41 | 2037-26-5 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **1.4** | mg/L | 0.50 | 0.14 | 1 | | 07/20/20 02:35 | 7440-44-0 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-01-2019 DUP** **Lab ID: 40211355015** Collected: 07/13/20 11:15 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 13:40 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 13:40 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 13:40 | 74-82-8 | |
| **8260 MSV** | Analytical Method: EPA 8260<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 16:02 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 16:02 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 16:02 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 16:02 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 16:02 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 16:02 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 16:02 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 16:02 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 16:02 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 16:02 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 16:02 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 16:02 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 16:02 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 16:02 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 16:02 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 16:02 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 16:02 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 16:02 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 16:02 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 16:02 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 16:02 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 16:02 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 16:02 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 16:02 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 16:02 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 16:02 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 16:02 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 16:02 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 16:02 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 16:02 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 16:02 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 16:02 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 16:02 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 16:02 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 16:02 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 16:02 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 16:02 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 16:02 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 16:02 | 98-82-8 | |

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-01-2019 DUP** **Lab ID: 40211355015** Collected: 07/13/20 11:15 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 16:02 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 16:02 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 16:02 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 16:02 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 16:02 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 16:02 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 16:02 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 16:02 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 16:02 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 16:02 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 16:02 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 16:02 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 16:02 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 16:02 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 16:02 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 16:02 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 16:02 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 16:02 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 16:02 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 16:02 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 16:02 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 16:02 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 92 | % | 70-130 | | 1 | | 07/20/20 16:02 | 460-00-4 | |
| Dibromofluoromethane (S) | 109 | % | 70-130 | | 1 | | 07/20/20 16:02 | 1868-53-7 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 07/20/20 16:02 | 2037-26-5 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **4.2** | mg/L | 0.50 | 0.14 | 1 | | 07/20/20 02:54 | 7440-44-0 | |

**Sample: MW-03-2019 DUP** **Lab ID: 40211355016** Collected: 07/13/20 15:20 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Ethane | **<1.2** | ug/L | 5.6 | 1.2 | 1 | | 07/20/20 13:47 | 74-84-0 | |
| Ethene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 13:47 | 74-85-1 | |
| Methane | **<0.66** | ug/L | 2.8 | 0.66 | 1 | | 07/20/20 13:47 | 74-82-8 | |

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-03-2019 DUP** **Lab ID: 40211355016** Collected: 07/13/20 15:20 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 16:24 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 16:24 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 16:24 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 16:24 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 16:24 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 16:24 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 16:24 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 16:24 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 16:24 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 16:24 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 16:24 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 16:24 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 16:24 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 16:24 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 16:24 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 16:24 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 16:24 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 16:24 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 16:24 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 16:24 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 16:24 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 16:24 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 16:24 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 16:24 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 16:24 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 16:24 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 16:24 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 16:24 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 16:24 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 16:24 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 16:24 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 16:24 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 16:24 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 16:24 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 16:24 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 16:24 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 16:24 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 16:24 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 16:24 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 16:24 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 16:24 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 16:24 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 16:24 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 16:24 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 16:24 | 100-42-5 | |

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## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: MW-03-2019 DUP** **Lab ID: 40211355016** Collected: 07/13/20 15:20 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 16:24 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 16:24 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 16:24 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 16:24 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 16:24 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 16:24 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 16:24 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 16:24 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 16:24 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 16:24 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 16:24 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 16:24 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 16:24 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 16:24 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 16:24 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 16:24 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 90 | % | 70-130 | | 1 | | 07/20/20 16:24 | 460-00-4 | |
| Dibromofluoromethane (S) | 109 | % | 70-130 | | 1 | | 07/20/20 16:24 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 07/20/20 16:24 | 2037-26-5 | |
| **5310C TOC** | Analytical Method: SM 5310C | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Total Organic Carbon | **1.3** | mg/L | 0.50 | 0.14 | 1 | | 07/20/20 03:12 | 7440-44-0 | |

**Sample: TRIP BLANK** **Lab ID: 40211355017** Collected: 07/13/20 00:00 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 09:57 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 09:57 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 09:57 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 09:57 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 09:57 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 09:57 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 09:57 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 09:57 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 09:57 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 09:57 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 09:57 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 09:57 | 75-00-3 | |

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: TRIP BLANK** **Lab ID: 40211355017** Collected: 07/13/20 00:00 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 09:57 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 09:57 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 09:57 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 09:57 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 09:57 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 09:57 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 09:57 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 09:57 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 09:57 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 09:57 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 09:57 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 09:57 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 09:57 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 09:57 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 09:57 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 09:57 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 09:57 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 09:57 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 09:57 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 09:57 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 09:57 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 09:57 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 09:57 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 09:57 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 09:57 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 09:57 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 09:57 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 09:57 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 09:57 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 09:57 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 09:57 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 09:57 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 09:57 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 09:57 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 09:57 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 09:57 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 09:57 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 09:57 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 09:57 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 09:57 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 09:57 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 09:57 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 09:57 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 09:57 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 09:57 | 95-63-6 | |

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: TRIP BLANK** **Lab ID: 40211355017** Collected: 07/13/20 00:00 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 09:57 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 09:57 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 09:57 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 09:57 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 91 | % | 70-130 | | 1 | | 07/20/20 09:57 | 460-00-4 | HS |
| Dibromofluoromethane (S) | 102 | % | 70-130 | | 1 | | 07/20/20 09:57 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 07/20/20 09:57 | 2037-26-5 | |

**Sample: EQUIPMENT BLANK** **Lab ID: 40211355018** Collected: 07/16/20 08:10 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| Benzene | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 07/20/20 10:19 | 71-43-2 | |
| Bromobenzene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 10:19 | 108-86-1 | |
| Bromochloromethane | **<0.36** | ug/L | 5.0 | 0.36 | 1 | | 07/20/20 10:19 | 74-97-5 | |
| Bromodichloromethane | **<0.36** | ug/L | 1.2 | 0.36 | 1 | | 07/20/20 10:19 | 75-27-4 | |
| Bromoform | **<4.0** | ug/L | 13.2 | 4.0 | 1 | | 07/20/20 10:19 | 75-25-2 | |
| Bromomethane | **<0.97** | ug/L | 5.0 | 0.97 | 1 | | 07/20/20 10:19 | 74-83-9 | |
| n-Butylbenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 10:19 | 104-51-8 | |
| sec-Butylbenzene | **<0.85** | ug/L | 5.0 | 0.85 | 1 | | 07/20/20 10:19 | 135-98-8 | |
| tert-Butylbenzene | **<0.30** | ug/L | 1.0 | 0.30 | 1 | | 07/20/20 10:19 | 98-06-6 | |
| Carbon tetrachloride | **<1.1** | ug/L | 3.6 | 1.1 | 1 | | 07/20/20 10:19 | 56-23-5 | |
| Chlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 10:19 | 108-90-7 | |
| Chloroethane | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 10:19 | 75-00-3 | |
| Chloroform | **<1.3** | ug/L | 5.0 | 1.3 | 1 | | 07/20/20 10:19 | 67-66-3 | |
| Chloromethane | **<2.2** | ug/L | 7.3 | 2.2 | 1 | | 07/20/20 10:19 | 74-87-3 | |
| 2-Chlorotoluene | **<0.93** | ug/L | 5.0 | 0.93 | 1 | | 07/20/20 10:19 | 95-49-8 | |
| 4-Chlorotoluene | **<0.76** | ug/L | 2.5 | 0.76 | 1 | | 07/20/20 10:19 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<1.8** | ug/L | 5.9 | 1.8 | 1 | | 07/20/20 10:19 | 96-12-8 | |
| Dibromochloromethane | **<2.6** | ug/L | 8.7 | 2.6 | 1 | | 07/20/20 10:19 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 10:19 | 106-93-4 | |
| Dibromomethane | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 10:19 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.71** | ug/L | 2.4 | 0.71 | 1 | | 07/20/20 10:19 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.63** | ug/L | 2.1 | 0.63 | 1 | | 07/20/20 10:19 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.94** | ug/L | 3.1 | 0.94 | 1 | | 07/20/20 10:19 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.50** | ug/L | 5.0 | 0.50 | 1 | | 07/20/20 10:19 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 10:19 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 10:19 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 10:19 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 10:19 | 156-59-2 | |

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

**Sample: EQUIPMENT BLANK** **Lab ID: 40211355018** Collected: 07/16/20 08:10 Received: 07/17/20 07:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| | Pace Analytical Services - Green Bay | | | | | | | | |
| trans-1,2-Dichloroethene | **<0.46** | ug/L | 1.5 | 0.46 | 1 | | 07/20/20 10:19 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 10:19 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.83** | ug/L | 2.8 | 0.83 | 1 | | 07/20/20 10:19 | 142-28-9 | |
| 2,2-Dichloropropane | **<2.3** | ug/L | 7.6 | 2.3 | 1 | | 07/20/20 10:19 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.54** | ug/L | 1.8 | 0.54 | 1 | | 07/20/20 10:19 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<3.6** | ug/L | 12.1 | 3.6 | 1 | | 07/20/20 10:19 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<4.4** | ug/L | 14.6 | 4.4 | 1 | | 07/20/20 10:19 | 10061-02-6 | |
| Diisopropyl ether | **<1.9** | ug/L | 6.3 | 1.9 | 1 | | 07/20/20 10:19 | 108-20-3 | |
| Ethylbenzene | **<0.32** | ug/L | 1.1 | 0.32 | 1 | | 07/20/20 10:19 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<1.5** | ug/L | 4.9 | 1.5 | 1 | | 07/20/20 10:19 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<1.7** | ug/L | 5.6 | 1.7 | 1 | | 07/20/20 10:19 | 98-82-8 | |
| p-Isopropyltoluene | **<0.80** | ug/L | 2.7 | 0.80 | 1 | | 07/20/20 10:19 | 99-87-6 | |
| Methylene Chloride | **<0.58** | ug/L | 5.0 | 0.58 | 1 | | 07/20/20 10:19 | 75-09-2 | |
| Methyl-tert-butyl ether | **<1.2** | ug/L | 4.2 | 1.2 | 1 | | 07/20/20 10:19 | 1634-04-4 | |
| Naphthalene | **<1.2** | ug/L | 5.0 | 1.2 | 1 | | 07/20/20 10:19 | 91-20-3 | |
| n-Propylbenzene | **<0.81** | ug/L | 5.0 | 0.81 | 1 | | 07/20/20 10:19 | 103-65-1 | |
| Styrene | **<3.0** | ug/L | 10.0 | 3.0 | 1 | | 07/20/20 10:19 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.27** | ug/L | 1.0 | 0.27 | 1 | | 07/20/20 10:19 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.28** | ug/L | 1.0 | 0.28 | 1 | | 07/20/20 10:19 | 79-34-5 | |
| Tetrachloroethene | **<0.33** | ug/L | 1.1 | 0.33 | 1 | | 07/20/20 10:19 | 127-18-4 | |
| Toluene | **<0.27** | ug/L | 0.90 | 0.27 | 1 | | 07/20/20 10:19 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.2** | ug/L | 7.4 | 2.2 | 1 | | 07/20/20 10:19 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<0.95** | ug/L | 5.0 | 0.95 | 1 | | 07/20/20 10:19 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 07/20/20 10:19 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.55** | ug/L | 5.0 | 0.55 | 1 | | 07/20/20 10:19 | 79-00-5 | |
| Trichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 10:19 | 79-01-6 | |
| Trichlorofluoromethane | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 07/20/20 10:19 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.59** | ug/L | 5.0 | 0.59 | 1 | | 07/20/20 10:19 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.84** | ug/L | 2.8 | 0.84 | 1 | | 07/20/20 10:19 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.87** | ug/L | 2.9 | 0.87 | 1 | | 07/20/20 10:19 | 108-67-8 | |
| Vinyl chloride | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 07/20/20 10:19 | 75-01-4 | |
| m&p-Xylene | **<0.47** | ug/L | 2.0 | 0.47 | 1 | | 07/20/20 10:19 | 179601-23-1 | |
| o-Xylene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 07/20/20 10:19 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 92 | % | 70-130 | | 1 | | 07/20/20 10:19 | 460-00-4 | |
| Dibromofluoromethane (S) | 105 | % | 70-130 | | 1 | | 07/20/20 10:19 | 1868-53-7 | |
| Toluene-d8 (S) | 103 | % | 70-130 | | 1 | | 07/20/20 10:19 | 2037-26-5 | |

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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## QUALITY CONTROL DATA

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

QC Batch: 360600
QC Batch Method: EPA 8015B Modified
Analysis Method: EPA 8015B Modified
Analysis Description: Methane, Ethane, Ethene GCV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40211355001, 40211355002, 40211355003, 40211355004, 40211355005, 40211355006, 40211355007, 40211355008, 40211355009, 40211355010, 40211355011, 40211355012, 40211355013, 40211355014, 40211355015, 40211355016

METHOD BLANK: 2085315 Matrix: Water
Associated Lab Samples: 40211355001, 40211355002, 40211355003, 40211355004, 40211355005, 40211355006, 40211355007, 40211355008, 40211355009, 40211355010, 40211355011, 40211355012, 40211355013, 40211355014, 40211355015, 40211355016

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Ethane | ug/L | <1.2 | 5.6 | 07/20/20 10:26 | |
| Ethene | ug/L | <1.2 | 5.0 | 07/20/20 10:26 | |
| Methane | ug/L | <0.66 | 2.8 | 07/20/20 10:26 | |

LABORATORY CONTROL SAMPLE & LCSD: 2085316 2085317

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethane | ug/L | 53.6 | 51.9 | 53.2 | 97 | 99 | 80-120 | 2 | 20 | |
| Ethene | ug/L | 50 | 47.9 | 48.2 | 96 | 96 | 80-120 | 1 | 20 | |
| Methane | ug/L | 28.6 | 27.2 | 28.1 | 95 | 98 | 79-120 | 3 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2085318 2085319

| Parameter | Units | 40211355008 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethane | ug/L | <1.2 | 53.6 | 53.6 | 48.4 | 49.6 | 90 | 93 | 79-120 | 2 | 20 | |
| Ethene | ug/L | <1.2 | 50 | 50 | 44.2 | 45.1 | 88 | 90 | 79-120 | 2 | 20 | |
| Methane | ug/L | <0.66 | 28.6 | 28.6 | 25.5 | 26.0 | 89 | 91 | 10-200 | 2 | 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
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(920)469-2436

## QUALITY CONTROL DATA

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

QC Batch: 360580
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40211355001, 40211355002, 40211355003, 40211355004, 40211355005, 40211355006, 40211355007, 40211355008, 40211355009, 40211355010, 40211355011, 40211355012, 40211355013, 40211355014, 40211355015, 40211355016, 40211355017, 40211355018

METHOD BLANK: 2085264
Matrix: Water
Associated Lab Samples: 40211355001, 40211355002, 40211355003, 40211355004, 40211355005, 40211355006, 40211355007, 40211355008, 40211355009, 40211355010, 40211355011, 40211355012, 40211355013, 40211355014, 40211355015, 40211355016, 40211355017, 40211355018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.27 | 1.0 | 07/20/20 08:10 | |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 07/20/20 08:10 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 1.0 | 07/20/20 08:10 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 5.0 | 07/20/20 08:10 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 1.0 | 07/20/20 08:10 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 1.0 | 07/20/20 08:10 | |
| 1,1-Dichloropropene | ug/L | <0.54 | 1.8 | 07/20/20 08:10 | |
| 1,2,3-Trichlorobenzene | ug/L | <2.2 | 7.4 | 07/20/20 08:10 | |
| 1,2,3-Trichloropropane | ug/L | <0.59 | 5.0 | 07/20/20 08:10 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 5.0 | 07/20/20 08:10 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.84 | 2.8 | 07/20/20 08:10 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 5.9 | 07/20/20 08:10 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 2.8 | 07/20/20 08:10 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 2.4 | 07/20/20 08:10 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 07/20/20 08:10 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 1.0 | 07/20/20 08:10 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.87 | 2.9 | 07/20/20 08:10 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 2.1 | 07/20/20 08:10 | |
| 1,3-Dichloropropane | ug/L | <0.83 | 2.8 | 07/20/20 08:10 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 3.1 | 07/20/20 08:10 | |
| 2,2-Dichloropropane | ug/L | <2.3 | 7.6 | 07/20/20 08:10 | |
| 2-Chlorotoluene | ug/L | <0.93 | 5.0 | 07/20/20 08:10 | |
| 4-Chlorotoluene | ug/L | <0.76 | 2.5 | 07/20/20 08:10 | |
| Benzene | ug/L | <0.25 | 1.0 | 07/20/20 08:10 | |
| Bromobenzene | ug/L | <0.24 | 1.0 | 07/20/20 08:10 | |
| Bromochloromethane | ug/L | <0.36 | 5.0 | 07/20/20 08:10 | |
| Bromodichloromethane | ug/L | <0.36 | 1.2 | 07/20/20 08:10 | |
| Bromoform | ug/L | <4.0 | 13.2 | 07/20/20 08:10 | |
| Bromomethane | ug/L | <0.97 | 5.0 | 07/20/20 08:10 | |
| Carbon tetrachloride | ug/L | <1.1 | 3.6 | 07/20/20 08:10 | |
| Chlorobenzene | ug/L | <0.71 | 2.4 | 07/20/20 08:10 | |
| Chloroethane | ug/L | <1.3 | 5.0 | 07/20/20 08:10 | |
| Chloroform | ug/L | <1.3 | 5.0 | 07/20/20 08:10 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 07/20/20 08:10 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 1.0 | 07/20/20 08:10 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 12.1 | 07/20/20 08:10 | |
| Dibromochloromethane | ug/L | <2.6 | 8.7 | 07/20/20 08:10 | |

**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

## QUALITY CONTROL DATA

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

METHOD BLANK: 2085264 Matrix: Water

Associated Lab Samples: 40211355001, 40211355002, 40211355003, 40211355004, 40211355005, 40211355006, 40211355007, 40211355008, 40211355009, 40211355010, 40211355011, 40211355012, 40211355013, 40211355014, 40211355015, 40211355016, 40211355017, 40211355018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Dibromomethane | ug/L | <0.94 | 3.1 | 07/20/20 08:10 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 5.0 | 07/20/20 08:10 | |
| Diisopropyl ether | ug/L | <1.9 | 6.3 | 07/20/20 08:10 | |
| Ethylbenzene | ug/L | <0.32 | 1.1 | 07/20/20 08:10 | |
| Hexachloro-1,3-butadiene | ug/L | <1.5 | 4.9 | 07/20/20 08:10 | |
| Isopropylbenzene (Cumene) | ug/L | <1.7 | 5.6 | 07/20/20 08:10 | |
| m&p-Xylene | ug/L | <0.47 | 2.0 | 07/20/20 08:10 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 4.2 | 07/20/20 08:10 | |
| Methylene Chloride | ug/L | <0.58 | 5.0 | 07/20/20 08:10 | |
| n-Butylbenzene | ug/L | <0.71 | 2.4 | 07/20/20 08:10 | |
| n-Propylbenzene | ug/L | <0.81 | 5.0 | 07/20/20 08:10 | |
| Naphthalene | ug/L | <1.2 | 5.0 | 07/20/20 08:10 | |
| o-Xylene | ug/L | <0.26 | 1.0 | 07/20/20 08:10 | |
| p-Isopropyltoluene | ug/L | <0.80 | 2.7 | 07/20/20 08:10 | |
| sec-Butylbenzene | ug/L | <0.85 | 5.0 | 07/20/20 08:10 | |
| Styrene | ug/L | <3.0 | 10.0 | 07/20/20 08:10 | |
| tert-Butylbenzene | ug/L | <0.30 | 1.0 | 07/20/20 08:10 | |
| Tetrachloroethene | ug/L | <0.33 | 1.1 | 07/20/20 08:10 | |
| Toluene | ug/L | <0.27 | 0.90 | 07/20/20 08:10 | |
| trans-1,2-Dichloroethene | ug/L | <0.46 | 1.5 | 07/20/20 08:10 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 14.6 | 07/20/20 08:10 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 07/20/20 08:10 | |
| Trichlorofluoromethane | ug/L | <0.21 | 1.0 | 07/20/20 08:10 | |
| Vinyl chloride | ug/L | <0.17 | 1.0 | 07/20/20 08:10 | |
| 4-Bromofluorobenzene (S) | % | 94 | 70-130 | 07/20/20 08:10 | |
| Dibromofluoromethane (S) | % | 101 | 70-130 | 07/20/20 08:10 | |
| Toluene-d8 (S) | % | 102 | 70-130 | 07/20/20 08:10 | |

LABORATORY CONTROL SAMPLE: 2085265

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ug/L | 50 | 49.4 | 99 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 47.3 | 95 | 64-131 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 45.7 | 91 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 45.6 | 91 | 69-163 | |
| 1,1-Dichloroethene | ug/L | 50 | 45.1 | 90 | 77-123 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 46.6 | 93 | 68-130 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 45.9 | 92 | 63-130 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 45.2 | 90 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 45.8 | 92 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 47.3 | 95 | 78-142 | |
| 1,2-Dichloropropane | ug/L | 50 | 48.0 | 96 | 86-134 | |

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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: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

LABORATORY CONTROL SAMPLE: 2085265

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ug/L | 50 | 45.5 | 91 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 44.7 | 89 | 70-130 | |
| Benzene | ug/L | 50 | 47.3 | 95 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 47.4 | 95 | 70-130 | |
| Bromoform | ug/L | 50 | 45.0 | 90 | 70-130 | |
| Bromomethane | ug/L | 50 | 33.3 | 67 | 39-129 | |
| Carbon tetrachloride | ug/L | 50 | 49.4 | 99 | 70-132 | |
| Chlorobenzene | ug/L | 50 | 47.8 | 96 | 70-130 | |
| Chloroethane | ug/L | 50 | 45.4 | 91 | 66-140 | |
| Chloroform | ug/L | 50 | 44.0 | 88 | 75-132 | |
| Chloromethane | ug/L | 50 | 46.3 | 93 | 32-143 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 43.8 | 88 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 45.2 | 90 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 42.2 | 84 | 70-130 | |
| Dichlorodifluoromethane | ug/L | 50 | 51.2 | 102 | 10-141 | |
| Ethylbenzene | ug/L | 50 | 49.4 | 99 | 80-120 | |
| Isopropylbenzene (Cumene) | ug/L | 50 | 44.6 | 89 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 96.6 | 97 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 42.7 | 85 | 61-129 | |
| Methylene Chloride | ug/L | 50 | 43.5 | 87 | 70-130 | |
| o-Xylene | ug/L | 50 | 47.4 | 95 | 70-130 | |
| Styrene | ug/L | 50 | 44.0 | 88 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 44.4 | 89 | 70-130 | |
| Toluene | ug/L | 50 | 47.1 | 94 | 80-120 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 44.7 | 89 | 70-130 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 43.5 | 87 | 69-130 | |
| Trichloroethene | ug/L | 50 | 46.4 | 93 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 48.2 | 96 | 75-145 | |
| Vinyl chloride | ug/L | 50 | 48.8 | 98 | 51-140 | |
| 4-Bromofluorobenzene (S) | % | | | 101 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 102 | 70-130 | |
| Toluene-d8 (S) | % | | | 103 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2085266 2085267

| Parameter | Units | 40211355008 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 | 49.3 | 51.5 | 99 | 103 | 70-130 | 4 | 20 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 50 | 50 | 47.3 | 51.0 | 95 | 102 | 64-137 | 8 | 20 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 50 | 50 | 45.8 | 49.8 | 92 | 100 | 70-137 | 8 | 20 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 50 | 50 | 46.1 | 47.8 | 92 | 96 | 69-163 | 4 | 20 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 50 | 50 | 44.2 | 46.2 | 88 | 92 | 77-129 | 4 | 20 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 50 | 50 | 45.9 | 48.5 | 92 | 97 | 68-130 | 6 | 20 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 50 | 50 | 47.9 | 52.2 | 96 | 104 | 60-130 | 9 | 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: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2085266 2085267

| Parameter | Units | 40211355008 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 50 | 50 | 45.9 | 48.6 | 92 | 97 | 70-130 | 6 | 20 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 50 | 50 | 45.4 | 48.4 | 91 | 97 | 70-130 | 6 | 20 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 50 | 50 | 47.6 | 49.0 | 95 | 98 | 78-145 | 3 | 20 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 50 | 50 | 47.7 | 48.5 | 95 | 97 | 86-135 | 2 | 20 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 50 | 50 | 45.3 | 47.8 | 91 | 96 | 70-130 | 5 | 20 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 50 | 50 | 44.4 | 47.4 | 89 | 95 | 70-130 | 6 | 20 | |
| Benzene | ug/L | <0.25 | 50 | 50 | 47.4 | 49.3 | 95 | 99 | 70-136 | 4 | 20 | |
| Bromodichloromethane | ug/L | <0.36 | 50 | 50 | 46.9 | 49.8 | 94 | 100 | 70-130 | 6 | 20 | |
| Bromoform | ug/L | <4.0 | 50 | 50 | 45.9 | 48.8 | 92 | 98 | 69-130 | 6 | 20 | |
| Bromomethane | ug/L | <0.97 | 50 | 50 | 32.5 | 33.9 | 65 | 68 | 39-138 | 4 | 20 | |
| Carbon tetrachloride | ug/L | <1.1 | 50 | 50 | 50.0 | 52.1 | 100 | 104 | 70-142 | 4 | 20 | |
| Chlorobenzene | ug/L | <0.71 | 50 | 50 | 47.7 | 50.4 | 95 | 101 | 70-130 | 6 | 20 | |
| Chloroethane | ug/L | <1.3 | 50 | 50 | 43.0 | 45.3 | 86 | 91 | 61-149 | 5 | 20 | |
| Chloroform | ug/L | <1.3 | 50 | 50 | 45.3 | 46.8 | 91 | 94 | 75-133 | 3 | 20 | |
| Chloromethane | ug/L | <2.2 | 50 | 50 | 40.0 | 40.5 | 80 | 81 | 32-143 | 1 | 20 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 50 | 50 | 44.3 | 45.7 | 89 | 91 | 70-130 | 3 | 20 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 50 | 50 | 45.2 | 46.9 | 90 | 94 | 70-130 | 4 | 20 | |
| Dibromochloromethane | ug/L | <2.6 | 50 | 50 | 43.3 | 45.5 | 87 | 91 | 70-130 | 5 | 20 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 50 | 50 | 34.8 | 35.4 | 70 | 71 | 10-141 | 2 | 20 | |
| Ethylbenzene | ug/L | <0.32 | 50 | 50 | 49.7 | 51.6 | 99 | 103 | 80-120 | 4 | 20 | |
| Isopropylbenzene (Cumene) | ug/L | <1.7 | 50 | 50 | 45.0 | 47.4 | 90 | 95 | 70-130 | 5 | 20 | |
| m&p-Xylene | ug/L | <0.47 | 100 | 100 | 98.7 | 102 | 99 | 102 | 70-130 | 3 | 20 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 50 | 50 | 44.0 | 46.0 | 88 | 92 | 61-136 | 5 | 20 | |
| Methylene Chloride | ug/L | <0.58 | 50 | 50 | 43.2 | 45.1 | 86 | 90 | 68-137 | 4 | 20 | |
| o-Xylene | ug/L | <0.26 | 50 | 50 | 48.0 | 50.3 | 96 | 101 | 70-130 | 5 | 20 | |
| Styrene | ug/L | <3.0 | 50 | 50 | 44.1 | 45.6 | 88 | 91 | 70-130 | 3 | 20 | |
| Tetrachloroethene | ug/L | <0.33 | 50 | 50 | 45.0 | 46.8 | 90 | 94 | 70-130 | 4 | 20 | |
| Toluene | ug/L | <0.27 | 50 | 50 | 47.9 | 49.8 | 96 | 100 | 80-120 | 4 | 20 | |
| trans-1,2-Dichloroethene | ug/L | <0.46 | 50 | 50 | 44.4 | 45.4 | 89 | 91 | 70-130 | 2 | 20 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 50 | 50 | 45.4 | 47.1 | 91 | 94 | 69-130 | 4 | 20 | |
| Trichloroethene | ug/L | <0.26 | 50 | 50 | 47.2 | 48.8 | 94 | 98 | 70-130 | 3 | 20 | |
| Trichlorofluoromethane | ug/L | <0.21 | 50 | 50 | 47.5 | 49.2 | 95 | 98 | 74-157 | 3 | 20 | |
| Vinyl chloride | ug/L | <0.17 | 50 | 50 | 44.5 | 45.3 | 89 | 91 | 51-140 | 2 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 102 | 104 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 102 | 102 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | | 104 | 103 | 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: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

QC Batch: 360541 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40211355001, 40211355002, 40211355003, 40211355004, 40211355005, 40211355006, 40211355007, 40211355008, 40211355009, 40211355010, 40211355011, 40211355012, 40211355013, 40211355014, 40211355015, 40211355016

METHOD BLANK: 2085166 — Matrix: Water

Associated Lab Samples: 40211355001, 40211355002, 40211355003, 40211355004, 40211355005, 40211355006, 40211355007, 40211355008, 40211355009, 40211355010, 40211355011, 40211355012, 40211355013, 40211355014, 40211355015, 40211355016

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | <0.14 | 0.50 | 07/19/20 18:39 | |

LABORATORY CONTROL SAMPLE: 2085167

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 12.5 | 12.4 | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2085168 2085169

| Parameter | Units | 40211355001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 4.4 | 6 | 6 | 10.6 | 10.6 | 102 | 102 | 80-120 | 0 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2085170 2085171

| Parameter | Units | 40211355008 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 1.6 | 18 | 18 | 16.9 | 16.9 | 85 | 85 | 80-120 | 0 | 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: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

## 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.

## ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40211355001** | **MW-01-2019** | EPA 8015B Modified | 360600 | | |
| **40211355002** | **P-01-2019** | EPA 8015B Modified | 360600 | | |
| **40211355003** | **MW-02-2019** | EPA 8015B Modified | 360600 | | |
| **40211355004** | **MW-03-2019** | EPA 8015B Modified | 360600 | | |
| **40211355005** | **MW-04-2019** | EPA 8015B Modified | 360600 | | |
| **40211355006** | **P-05-2019** | EPA 8015B Modified | 360600 | | |
| **40211355007** | **MW-06-2019** | EPA 8015B Modified | 360600 | | |
| **40211355008** | **MW-07-2019** | EPA 8015B Modified | 360600 | | |
| **40211355009** | **P-07-2019** | EPA 8015B Modified | 360600 | | |
| **40211355010** | **MW-08-2019** | EPA 8015B Modified | 360600 | | |
| **40211355011** | **P-08-2019** | EPA 8015B Modified | 360600 | | |
| **40211355012** | **MW-09-2019** | EPA 8015B Modified | 360600 | | |
| **40211355013** | **P-09-2019** | EPA 8015B Modified | 360600 | | |
| **40211355014** | **P-09A-2019** | EPA 8015B Modified | 360600 | | |
| **40211355015** | **MW-01-2019 DUP** | EPA 8015B Modified | 360600 | | |
| **40211355016** | **MW-03-2019 DUP** | EPA 8015B Modified | 360600 | | |
| **40211355001** | **MW-01-2019** | EPA 8260 | 360580 | | |
| **40211355002** | **P-01-2019** | EPA 8260 | 360580 | | |
| **40211355003** | **MW-02-2019** | EPA 8260 | 360580 | | |
| **40211355004** | **MW-03-2019** | EPA 8260 | 360580 | | |
| **40211355005** | **MW-04-2019** | EPA 8260 | 360580 | | |
| **40211355006** | **P-05-2019** | EPA 8260 | 360580 | | |
| **40211355007** | **MW-06-2019** | EPA 8260 | 360580 | | |
| **40211355008** | **MW-07-2019** | EPA 8260 | 360580 | | |
| **40211355009** | **P-07-2019** | EPA 8260 | 360580 | | |
| **40211355010** | **MW-08-2019** | EPA 8260 | 360580 | | |
| **40211355011** | **P-08-2019** | EPA 8260 | 360580 | | |
| **40211355012** | **MW-09-2019** | EPA 8260 | 360580 | | |
| **40211355013** | **P-09-2019** | EPA 8260 | 360580 | | |
| **40211355014** | **P-09A-2019** | EPA 8260 | 360580 | | |
| **40211355015** | **MW-01-2019 DUP** | EPA 8260 | 360580 | | |
| **40211355016** | **MW-03-2019 DUP** | EPA 8260 | 360580 | | |
| **40211355017** | **TRIP BLANK** | EPA 8260 | 360580 | | |
| **40211355018** | **EQUIPMENT BLANK** | EPA 8260 | 360580 | | |
| **40211355001** | **MW-01-2019** | SM 5310C | 360541 | | |
| **40211355002** | **P-01-2019** | SM 5310C | 360541 | | |
| **40211355003** | **MW-02-2019** | SM 5310C | 360541 | | |
| **40211355004** | **MW-03-2019** | SM 5310C | 360541 | | |
| **40211355005** | **MW-04-2019** | SM 5310C | 360541 | | |
| **40211355006** | **P-05-2019** | SM 5310C | 360541 | | |
| **40211355007** | **MW-06-2019** | SM 5310C | 360541 | | |
| **40211355008** | **MW-07-2019** | SM 5310C | 360541 | | |
| **40211355009** | **P-07-2019** | SM 5310C | 360541 | | |
| **40211355010** | **MW-08-2019** | SM 5310C | 360541 | | |
| **40211355011** | **P-08-2019** | SM 5310C | 360541 | | |
| **40211355012** | **MW-09-2019** | SM 5310C | 360541 | | |
| **40211355013** | **P-09-2019** | SM 5310C | 360541 | | |
| **40211355014** | **P-09A-2019** | SM 5310C | 360541 | | |

## REPORT OF LABORATORY ANALYSIS

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

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHE80940Q METRO NORTH SERVICE
Pace Project No.: 40211355

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40211355015** | **MW-01-2019 DUP** | SM 5310C | 360541 | | |
| **40211355016** | **MW-03-2019 DUP** | SM 5310C | 360541 | | |

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



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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: | Geosyntec consultants |
| Branch/Location: | Mequon, WI |
| Project Contact: | Jeremiah Johnson |
| Phone: | 262-834-0228 |
| Project Number: | CHE809400 |
| Project Name: | Metro North service Center |
| Project State: | WI |
| Sampled By (Print): | Codyann Holp |
| Sampled By (Sign): | Codyann Holp |
| PO #: | Regulatory Program: |

| Quote #: | |
|---|---|
| Mail To Contact: | Jeremiah Johnson |
| Mail To Company: | Geosyntec |
| Mail To Address: | 10600 N. Port Washington Rd Ste 100 Mequon, WI 53092 |
| Invoice To Contact: | Frank Dombrowski |
| Invoice To Company: | We Energies |
| 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 | Analyses Requested: VOC | Methane, Ethane, Ethene (MEE) | TOC | CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|---|---|---|---|---|---|---|---|---|---|---|
| | FILTERED? (YES/NO) | | | | Y/N: N | N | N | | | |
| | PRESERVATION (CODE)* | | | | Pick Letter: B | B | C | | | |
| 001 | MW-01-2019 | 7/13/20 | 1115 | GW | x | x | x | | | |
| 002 | P-01-2019 | 7/14/20 | 1045 | | | | | | | |
| 003 | MW-02-2019 | 7/13/20 | 1415 | | | | | | | |
| 004 | MW-03-2019 | 7/13/20 | 1520 | | | | | | | |
| 005 | MW-04-2019 | 7/13/20 | 1310 | | | | | | | |
| 006 | P-05-2019 | 7/14/20 | 1205 | | | | | | | |
| 007 | MW-06-2019 | 7/14/20 | 1325 | | | | | | | |
| 008 | MW-07-2019 | 7/14/20 | 1435 | | | | | extra volume MS/MSD | | |
| 009 | P-07-2019 | 7/14/20 | 1550 | | | | | | | |
| 010 | MW-08-2019 | 7/15/20 | 1045 | | | | | | | |
| 011 | P-08-2019 | 7/15/20 | 0955 | | | | | | | |
| 012 | MW-09-2019 | 7/15/20 | 1425 | | | | | | | |
| 013 | P-09-2019 | 7/15/20 | 1530 | ↓ | ↓ | ↓ | ↓ | | | |

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: |
|---|---|---|---|
| Codyann Holp | 7-16-20 11:22 | Mary Fannin | 7/16/20 11:22 |
| Mary Fannin | 7/16/20 1457 | | |
| CS Logistics | 7/17/20 0730 | | |
| | | | |
| | | | |

PACE Project No.: 40211355
Receipt Temp = 1.0 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

C019a(27Jun2006)
Version 6.0 06/14/06
ORIGINAL

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

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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: | GeosyntecConsultants |
| Branch/Location: | Mequon, WI |
| Project Contact: | JeremianJohnson |
| Phone: | 262-834-0228 |
| Project Number: | CHE90940Q |
| Project Name: | MetroNathservice center |
| Project State: | WI |
| Sampled By (Print): | C. Kolp |
| Sampled By (Sign): | CodyanKolp |
| PO #: | Regulatory Program: |

| Quote #: | |
|---|---|
| Mail To Contact: | |
| Mail To Company: | SEE PG 1/2 |
| 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 | Analyses Requested: FILTERED? (YES/NO) | VOC | Methane, Ethane, Ethene | TOC | CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Y/N | N | N | N | | | | | | | |
| | Pick Letter | B | B | C | | | | | | | |
| 014 | P-09A-2019 | 7/15/20 | 1330 | GW | | X | X | X | | | |
| 015 | MW-01-2019DUP | 7/13/20 | 1115 | GW | | X | X | X | | | |
| 016 | MW-03-2019DUP | 7/13/20 | 1520 | GW | | X | X | X | | | |
| 017 | TRIP BLANK | / | / | W | | X | | | | | |
| 018 | EQUIPMENTBLANK | 7/16/20 | 0810 | W | | X | | | | | |

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: |
|---|---|---|---|
| CodyanKolp | 7-16-20 / 11:22 | Mary Fanni | 7/16/20 11:22 |
| Mary Fanni | 7/16/20 1452 | | |
| C.S Logistics | 7/17/20 0730 | | |
| | | | |
| | | | |

PACE Project No.: 40211355

Receipt Temp = ROI °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal: Present / Not Present; Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

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

# Sample Preservation Receipt Form

Client Name: GeoSyntec  Project # 40211355

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 | | | | | | | | Plastic | | | | | Vials | | | | | | Jars | | | | General | | | VOA Vials (>6mm) * | H2SO4 pH ≤2 | NaOH+Zn Act pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤2 | pH after adjusted | Volume (mL) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AG1U | BG1U | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U | BP1U | BP3U | BP3B | BP3N | BP3S | VG9A | DG9T | VG9U | VG9H | VG9M | VG9D | JGFU | JG9U | WGFU | WPFU | SP5T | ZPLC | GN | | | | | | |
| 001 | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 002 | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 003 | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 004 | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 005 | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 006 | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 007 | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 008 | | | | N | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 009 | | | | | MK 7.17.20 | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 010 | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 011 | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 012 | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 013 | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 014 | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 015 | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | | | 2.5 / 5 / 10 |
| 016 | | | | | | | | | | | | | | | | | 6 | | | | | | | | | | | | | 7/17/20 | | 2.5 / 5 / 10 |
| 017 | | | | | | | | | | | | | | | | | 2 | | | | | | | | | 2 | | | | | MP | | 2.5 / 5 / 10 |
| 018 | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 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 |
| BG1U | 1 liter clear glass |
| AG1H | 1 liter amber glass HCL |
| AG4S | 125 mL amber glass H2SO4 |
| AG4U | 120 mL amber glass unpres |
| AG5U | 100 mL amber glass unpres |
| AG2S | 500 mL amber glass H2SO4 |
| BG3U | 250 mL clear glass unpres |

| | |
|---|---|
| BP1U | 1 liter plastic unpres |
| BP3U | 250 mL plastic unpres |
| BP3B | 250 mL plastic NaOH |
| BP3N | 250 mL plastic HNO3 |
| BP3S | 250 mL plastic H2SO4 |

| | |
|---|---|
| VG9A | 40 mL clear ascorbic |
| DG9T | 40 mL amber Na Thio |
| VG9U | 40 mL clear vial unpres |
| VG9H | 40 mL clear vial HCL |
| VG9M | 40 mL clear vial MeOH |
| VG9D | 40 mL clear vial DI |

| | |
|---|---|
| JGFU | 4 oz amber jar unpres |
| JG9U | 9 oz amber jar unpres |
| WGFU | 4 oz clear jar unpres |
| WPFU | 4 oz plastic jar unpres |
| SP5T | 120 mL plastic Na Thiosulfate |
| ZPLC | ziploc bag |
| GN | |

| Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302 | Document Name: Sample Condition Upon Receipt (SCUR) | Document Revised: 26Mar2020 |
|---|---|---|
| | Document No.: ENV-FRM-GBAY-0014-Rev.00 | Author: Pace Green Bay Quality Office |

# Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40211355


**Client Name:** Geosyntec Consultants

**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 - NA **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

Person examining contents:
Date: 7/17/20 Initials: MR
Labeled By Initials: MLR

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

| | | | |
|---|---|---|---|
| Chain of Custody Present: | ☒Yes ☐No ☐N/A | 1. | |
| Chain of Custody Filled Out: MLR 7-17-20 | ~~☒Yes~~ ☒No ☐N/A | 2. invoice address + phone MLR 7-17-20 | |
| 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: MLR 7-17-20 | | 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: (1) | ☐Yes ☒No ☐N/A | 12. 009 - No sample ID. place by time in process of elimination. | |
| -Includes date/time/ID/Analysis Matrix: W | | | |
| Trip Blank Present: | ☒Yes ☐No ☐N/A | 13. (2) 009 VG9H date "4-17-20" 7/17/20 MLR 7-17-20 NP | |
| Trip Blank Custody Seals Present | ☒Yes ☐No ☐N/A | | |
| Pace Trip Blank Lot # (if purchased): 449 | | | |

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

Person Contacted: Date/Time:

Comments/ Resolution: (1) 006 VG9H year "2019". (2) ~~006 VG9H ends in "2018" + AG4S~~, (3) 009 MLR 7-17-20 VG9H date "4-17-20" MLR 7-17-20 (4) MLR 7-17-20

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

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

November 04, 2020

Jeremiah Johnson
GEOSYNTEC CONSULTANTS
10600 North Port Washington Rd
Suite 100
Thiensville, WI 53092

RE: Project: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

Dear Jeremiah Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: John Delwiche, We Energies
Frank Dombrowski, WE Energies
Beth Hellman, WE Energies
WE Energies Lab Reports, WE Energies

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

## CERTIFICATIONS

Project: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

**Pace Analytical Services Green Bay**
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: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **40217031001** | **MW-01-2019** | Water | 10/19/20 12:15 | 10/22/20 09:50 |
| **40217031002** | **P-01-2019** | Water | 10/19/20 13:40 | 10/22/20 09:50 |
| **40217031003** | **MW-02-2019** | Water | 10/20/20 08:20 | 10/22/20 09:50 |
| **40217031004** | **MW-03-2019** | Water | 10/20/20 09:20 | 10/22/20 09:50 |
| **40217031005** | **MW-04-2019** | Water | 10/20/20 10:15 | 10/22/20 09:50 |
| **40217031006** | **P-05-2019** | Water | 10/19/20 15:20 | 10/22/20 09:50 |
| **40217031007** | **MW-06-2019** | Water | 10/20/20 13:05 | 10/22/20 09:50 |
| **40217031008** | **MW-07-2019** | Water | 10/20/20 12:05 | 10/22/20 09:50 |
| **40217031009** | **P-07-2019** | Water | 10/20/20 11:40 | 10/22/20 09:50 |
| **40217031010** | **MW-08-2019** | Water | 10/20/20 14:00 | 10/22/20 09:50 |
| **40217031011** | **P-08-2019** | Water | 10/20/20 13:45 | 10/22/20 09:50 |
| **40217031012** | **MW-09-2019** | Water | 10/20/20 15:00 | 10/22/20 09:50 |
| **40217031013** | **P-09-2019** | Water | 10/20/20 17:05 | 10/22/20 09:50 |
| **40217031014** | **P-09A-2019** | Water | 10/20/20 15:55 | 10/22/20 09:50 |

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

## SAMPLE ANALYTE COUNT

Project: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **40217031001** | **MW-01-2019** | EPA 6010 | TXW | 8 |
| | | EPA 7470 | AJT | 1 |
| **40217031002** | **P-01-2019** | EPA 6010 | TXW | 8 |
| | | EPA 7470 | AJT | 1 |
| **40217031003** | **MW-02-2019** | EPA 6010 | TXW | 8 |
| | | EPA 7470 | AJT | 1 |
| **40217031004** | **MW-03-2019** | EPA 6010 | TXW | 8 |
| | | EPA 7470 | AJT | 1 |
| **40217031005** | **MW-04-2019** | EPA 6010 | TXW | 8 |
| | | EPA 7470 | AJT | 1 |
| **40217031006** | **P-05-2019** | EPA 6010 | TXW | 8 |
| | | EPA 7470 | AJT | 1 |
| **40217031007** | **MW-06-2019** | EPA 6010 | TXW | 8 |
| | | EPA 7470 | AJT | 1 |
| **40217031008** | **MW-07-2019** | EPA 6010 | TXW | 8 |
| | | EPA 7470 | AJT | 1 |
| **40217031009** | **P-07-2019** | EPA 6010 | TXW | 8 |
| | | EPA 7470 | AJT | 1 |
| **40217031010** | **MW-08-2019** | EPA 6010 | TXW | 8 |
| | | EPA 7470 | AJT | 1 |
| **40217031011** | **P-08-2019** | EPA 6010 | TXW | 8 |
| | | EPA 7470 | AJT | 1 |
| **40217031012** | **MW-09-2019** | EPA 6010 | TXW | 8 |
| | | EPA 7470 | AJT | 1 |
| **40217031013** | **P-09-2019** | EPA 6010 | TXW | 8 |
| | | EPA 7470 | AJT | 1 |
| **40217031014** | **P-09A-2019** | EPA 6010 | TXW | 8 |
| | | EPA 7470 | AJT | 1 |

PASI-G = Pace Analytical Services - Green Bay

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## ANALYTICAL RESULTS

Project: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

**Sample: MW-01-2019** **Lab ID: 40217031001** Collected: 10/19/20 12:15 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic, Dissolved | **<8.3** | ug/L | 25.0 | 8.3 | 1 | 10/26/20 11:16 | 10/27/20 13:14 | 7440-38-2 | |
| Barium, Dissolved | **84.8** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:14 | 7440-39-3 | |
| Cadmium, Dissolved | **<1.3** | ug/L | 5.0 | 1.3 | 1 | 10/26/20 11:16 | 10/27/20 13:14 | 7440-43-9 | |
| Chromium, Dissolved | **<2.5** | ug/L | 10.0 | 2.5 | 1 | 10/26/20 11:16 | 10/27/20 13:14 | 7440-47-3 | |
| Lead, Dissolved | **<5.9** | ug/L | 20.0 | 5.9 | 1 | 10/26/20 11:16 | 10/27/20 13:14 | 7439-92-1 | |
| Manganese, Dissolved | **188** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:14 | 7439-96-5 | |
| Selenium, Dissolved | **<12.2** | ug/L | 40.0 | 12.2 | 1 | 10/26/20 11:16 | 10/27/20 13:14 | 7782-49-2 | |
| Silver, Dissolved | **<3.2** | ug/L | 10.0 | 3.2 | 1 | 10/26/20 11:16 | 10/27/20 13:14 | 7440-22-4 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury, Dissolved | **<0.066** | ug/L | 0.20 | 0.066 | 1 | 10/29/20 10:25 | 10/30/20 09:20 | 7439-97-6 | |

**Sample: P-01-2019** **Lab ID: 40217031002** Collected: 10/19/20 13:40 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic, Dissolved | **15.6J** | ug/L | 25.0 | 8.3 | 1 | 10/26/20 11:16 | 10/27/20 13:30 | 7440-38-2 | |
| Barium, Dissolved | **20.7** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:30 | 7440-39-3 | |
| Cadmium, Dissolved | **<1.3** | ug/L | 5.0 | 1.3 | 1 | 10/26/20 11:16 | 10/27/20 13:30 | 7440-43-9 | |
| Chromium, Dissolved | **<2.5** | ug/L | 10.0 | 2.5 | 1 | 10/26/20 11:16 | 10/27/20 13:30 | 7440-47-3 | |
| Lead, Dissolved | **<5.9** | ug/L | 20.0 | 5.9 | 1 | 10/26/20 11:16 | 10/27/20 13:30 | 7439-92-1 | |
| Manganese, Dissolved | **812** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:30 | 7439-96-5 | |
| Selenium, Dissolved | **<12.2** | ug/L | 40.0 | 12.2 | 1 | 10/26/20 11:16 | 10/27/20 13:30 | 7782-49-2 | |
| Silver, Dissolved | **<3.2** | ug/L | 10.0 | 3.2 | 1 | 10/26/20 11:16 | 10/27/20 13:30 | 7440-22-4 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury, Dissolved | **<0.066** | ug/L | 0.20 | 0.066 | 1 | 10/29/20 10:25 | 10/30/20 09:27 | 7439-97-6 | |

**Sample: MW-02-2019** **Lab ID: 40217031003** Collected: 10/20/20 08:20 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic, Dissolved | **<8.3** | ug/L | 25.0 | 8.3 | 1 | 10/26/20 11:16 | 10/27/20 13:35 | 7440-38-2 | |
| Barium, Dissolved | **253** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:35 | 7440-39-3 | |
| Cadmium, Dissolved | **<1.3** | ug/L | 5.0 | 1.3 | 1 | 10/26/20 11:16 | 10/27/20 13:35 | 7440-43-9 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

**Sample: MW-02-2019** **Lab ID: 40217031003** Collected: 10/20/20 08:20 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay | | | | | | | | |
| Chromium, Dissolved | **<2.5** | ug/L | 10.0 | 2.5 | 1 | 10/26/20 11:16 | 10/27/20 13:35 | 7440-47-3 | |
| Lead, Dissolved | **<5.9** | ug/L | 20.0 | 5.9 | 1 | 10/26/20 11:16 | 10/27/20 13:35 | 7439-92-1 | |
| Manganese, Dissolved | **520** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:35 | 7439-96-5 | |
| Selenium, Dissolved | **<12.2** | ug/L | 40.0 | 12.2 | 1 | 10/26/20 11:16 | 10/27/20 13:35 | 7782-49-2 | |
| Silver, Dissolved | **<3.2** | ug/L | 10.0 | 3.2 | 1 | 10/26/20 11:16 | 10/27/20 13:35 | 7440-22-4 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury, Dissolved | **<0.066** | ug/L | 0.20 | 0.066 | 1 | 10/29/20 10:25 | 10/30/20 09:34 | 7439-97-6 | |

**Sample: MW-03-2019** **Lab ID: 40217031004** Collected: 10/20/20 09:20 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic, Dissolved | **<8.3** | ug/L | 25.0 | 8.3 | 1 | 10/26/20 11:16 | 10/27/20 13:37 | 7440-38-2 | |
| Barium, Dissolved | **300** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:37 | 7440-39-3 | |
| Cadmium, Dissolved | **<1.3** | ug/L | 5.0 | 1.3 | 1 | 10/26/20 11:16 | 10/27/20 13:37 | 7440-43-9 | |
| Chromium, Dissolved | **<2.5** | ug/L | 10.0 | 2.5 | 1 | 10/26/20 11:16 | 10/27/20 13:37 | 7440-47-3 | |
| Lead, Dissolved | **<5.9** | ug/L | 20.0 | 5.9 | 1 | 10/26/20 11:16 | 10/27/20 13:37 | 7439-92-1 | |
| Manganese, Dissolved | **69.9** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:37 | 7439-96-5 | |
| Selenium, Dissolved | **<12.2** | ug/L | 40.0 | 12.2 | 1 | 10/26/20 11:16 | 10/27/20 13:37 | 7782-49-2 | |
| Silver, Dissolved | **<3.2** | ug/L | 10.0 | 3.2 | 1 | 10/26/20 11:16 | 10/27/20 13:37 | 7440-22-4 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury, Dissolved | **<0.066** | ug/L | 0.20 | 0.066 | 1 | 10/29/20 10:25 | 10/30/20 09:36 | 7439-97-6 | |

**Sample: MW-04-2019** **Lab ID: 40217031005** Collected: 10/20/20 10:15 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic, Dissolved | **<8.3** | ug/L | 25.0 | 8.3 | 1 | 10/26/20 11:16 | 10/27/20 13:40 | 7440-38-2 | |
| Barium, Dissolved | **206** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:40 | 7440-39-3 | |
| Cadmium, Dissolved | **<1.3** | ug/L | 5.0 | 1.3 | 1 | 10/26/20 11:16 | 10/27/20 13:40 | 7440-43-9 | |
| Chromium, Dissolved | **<2.5** | ug/L | 10.0 | 2.5 | 1 | 10/26/20 11:16 | 10/27/20 13:40 | 7440-47-3 | |
| Lead, Dissolved | **<5.9** | ug/L | 20.0 | 5.9 | 1 | 10/26/20 11:16 | 10/27/20 13:40 | 7439-92-1 | |
| Manganese, Dissolved | **42.2** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:40 | 7439-96-5 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

**Sample: MW-04-2019** **Lab ID: 40217031005** Collected: 10/20/20 10:15 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Selenium, Dissolved | **<12.2** | ug/L | 40.0 | 12.2 | 1 | 10/26/20 11:16 | 10/27/20 13:40 | 7782-49-2 | |
| Silver, Dissolved | **<3.2** | ug/L | 10.0 | 3.2 | 1 | 10/26/20 11:16 | 10/27/20 13:40 | 7440-22-4 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury, Dissolved | **<0.066** | ug/L | 0.20 | 0.066 | 1 | 10/29/20 10:25 | 10/30/20 09:39 | 7439-97-6 | |

**Sample: P-05-2019** **Lab ID: 40217031006** Collected: 10/19/20 15:20 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic, Dissolved | **9.5J** | ug/L | 25.0 | 8.3 | 1 | 10/26/20 11:16 | 10/27/20 13:42 | 7440-38-2 | |
| Barium, Dissolved | **40.1** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:42 | 7440-39-3 | |
| Cadmium, Dissolved | **<1.3** | ug/L | 5.0 | 1.3 | 1 | 10/26/20 11:16 | 10/27/20 13:42 | 7440-43-9 | |
| Chromium, Dissolved | **<2.5** | ug/L | 10.0 | 2.5 | 1 | 10/26/20 11:16 | 10/27/20 13:42 | 7440-47-3 | |
| Lead, Dissolved | **<5.9** | ug/L | 20.0 | 5.9 | 1 | 10/26/20 11:16 | 10/27/20 13:42 | 7439-92-1 | |
| Manganese, Dissolved | **742** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:42 | 7439-96-5 | |
| Selenium, Dissolved | **<12.2** | ug/L | 40.0 | 12.2 | 1 | 10/26/20 11:16 | 10/27/20 13:42 | 7782-49-2 | |
| Silver, Dissolved | **<3.2** | ug/L | 10.0 | 3.2 | 1 | 10/26/20 11:16 | 10/27/20 13:42 | 7440-22-4 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury, Dissolved | **<0.066** | ug/L | 0.20 | 0.066 | 1 | 10/29/20 10:25 | 10/30/20 09:41 | 7439-97-6 | |

**Sample: MW-06-2019** **Lab ID: 40217031007** Collected: 10/20/20 13:05 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic, Dissolved | **<8.3** | ug/L | 25.0 | 8.3 | 1 | 10/26/20 11:16 | 10/27/20 13:45 | 7440-38-2 | |
| Barium, Dissolved | **195** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:45 | 7440-39-3 | |
| Cadmium, Dissolved | **<1.3** | ug/L | 5.0 | 1.3 | 1 | 10/26/20 11:16 | 10/27/20 13:45 | 7440-43-9 | |
| Chromium, Dissolved | **<2.5** | ug/L | 10.0 | 2.5 | 1 | 10/26/20 11:16 | 10/27/20 13:45 | 7440-47-3 | |
| Lead, Dissolved | **<5.9** | ug/L | 20.0 | 5.9 | 1 | 10/26/20 11:16 | 10/27/20 13:45 | 7439-92-1 | |
| Manganese, Dissolved | **59.6** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:45 | 7439-96-5 | |
| Selenium, Dissolved | **<12.2** | ug/L | 40.0 | 12.2 | 1 | 10/26/20 11:16 | 10/27/20 13:45 | 7782-49-2 | |
| Silver, Dissolved | **<3.2** | ug/L | 10.0 | 3.2 | 1 | 10/26/20 11:16 | 10/27/20 13:45 | 7440-22-4 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

**Sample: MW-06-2019** **Lab ID: 40217031007** Collected: 10/20/20 13:05 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury, Dissolved | **<0.066** | ug/L | 0.20 | 0.066 | 1 | 10/29/20 10:25 | 10/30/20 09:43 | 7439-97-6 | |

**Sample: MW-07-2019** **Lab ID: 40217031008** Collected: 10/20/20 12:05 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic, Dissolved | **9.9J** | ug/L | 25.0 | 8.3 | 1 | 10/26/20 11:16 | 10/27/20 13:47 | 7440-38-2 | |
| Barium, Dissolved | **788** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:47 | 7440-39-3 | |
| Cadmium, Dissolved | **<1.3** | ug/L | 5.0 | 1.3 | 1 | 10/26/20 11:16 | 10/27/20 13:47 | 7440-43-9 | |
| Chromium, Dissolved | **102** | ug/L | 10.0 | 2.5 | 1 | 10/26/20 11:16 | 10/27/20 13:47 | 7440-47-3 | |
| Lead, Dissolved | **<5.9** | ug/L | 20.0 | 5.9 | 1 | 10/26/20 11:16 | 10/27/20 13:47 | 7439-92-1 | |
| Manganese, Dissolved | **230** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:47 | 7439-96-5 | |
| Selenium, Dissolved | **<12.2** | ug/L | 40.0 | 12.2 | 1 | 10/26/20 11:16 | 10/27/20 13:47 | 7782-49-2 | |
| Silver, Dissolved | **<3.2** | ug/L | 10.0 | 3.2 | 1 | 10/26/20 11:16 | 10/27/20 13:47 | 7440-22-4 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury, Dissolved | **<0.066** | ug/L | 0.20 | 0.066 | 1 | 10/29/20 10:25 | 10/30/20 09:46 | 7439-97-6 | |

**Sample: P-07-2019** **Lab ID: 40217031009** Collected: 10/20/20 11:40 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic, Dissolved | **11.0J** | ug/L | 25.0 | 8.3 | 1 | 10/26/20 11:16 | 10/27/20 13:50 | 7440-38-2 | |
| Barium, Dissolved | **19.4** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:50 | 7440-39-3 | |
| Cadmium, Dissolved | **<1.3** | ug/L | 5.0 | 1.3 | 1 | 10/26/20 11:16 | 10/27/20 13:50 | 7440-43-9 | |
| Chromium, Dissolved | **<2.5** | ug/L | 10.0 | 2.5 | 1 | 10/26/20 11:16 | 10/27/20 13:50 | 7440-47-3 | |
| Lead, Dissolved | **<5.9** | ug/L | 20.0 | 5.9 | 1 | 10/26/20 11:16 | 10/27/20 13:50 | 7439-92-1 | |
| Manganese, Dissolved | **944** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 13:50 | 7439-96-5 | |
| Selenium, Dissolved | **<12.2** | ug/L | 40.0 | 12.2 | 1 | 10/26/20 11:16 | 10/27/20 13:50 | 7782-49-2 | |
| Silver, Dissolved | **<3.2** | ug/L | 10.0 | 3.2 | 1 | 10/26/20 11:16 | 10/27/20 13:50 | 7440-22-4 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury, Dissolved | **<0.066** | ug/L | 0.20 | 0.066 | 1 | 10/29/20 10:25 | 10/30/20 09:48 | 7439-97-6 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

**Sample: MW-08-2019** **Lab ID: 40217031010** Collected: 10/20/20 14:00 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic, Dissolved | **8.5J** | ug/L | 25.0 | 8.3 | 1 | 10/26/20 11:16 | 10/27/20 14:08 | 7440-38-2 | |
| Barium, Dissolved | **312** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 14:08 | 7440-39-3 | |
| Cadmium, Dissolved | **<1.3** | ug/L | 5.0 | 1.3 | 1 | 10/26/20 11:16 | 10/27/20 14:08 | 7440-43-9 | |
| Chromium, Dissolved | **<2.5** | ug/L | 10.0 | 2.5 | 1 | 10/26/20 11:16 | 10/27/20 14:08 | 7440-47-3 | |
| Lead, Dissolved | **<5.9** | ug/L | 20.0 | 5.9 | 1 | 10/26/20 11:16 | 10/27/20 14:08 | 7439-92-1 | |
| Manganese, Dissolved | **63.1** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 14:08 | 7439-96-5 | |
| Selenium, Dissolved | **<12.2** | ug/L | 40.0 | 12.2 | 1 | 10/26/20 11:16 | 10/27/20 14:08 | 7782-49-2 | |
| Silver, Dissolved | **<3.2** | ug/L | 10.0 | 3.2 | 1 | 10/26/20 11:16 | 10/27/20 14:08 | 7440-22-4 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury, Dissolved | **<0.066** | ug/L | 0.20 | 0.066 | 1 | 10/29/20 10:25 | 10/30/20 09:50 | 7439-97-6 | |

**Sample: P-08-2019** **Lab ID: 40217031011** Collected: 10/20/20 13:45 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic, Dissolved | **9.5J** | ug/L | 25.0 | 8.3 | 1 | 10/26/20 11:16 | 10/27/20 14:11 | 7440-38-2 | |
| Barium, Dissolved | **26.5** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 14:11 | 7440-39-3 | |
| Cadmium, Dissolved | **<1.3** | ug/L | 5.0 | 1.3 | 1 | 10/26/20 11:16 | 10/27/20 14:11 | 7440-43-9 | |
| Chromium, Dissolved | **<2.5** | ug/L | 10.0 | 2.5 | 1 | 10/26/20 11:16 | 10/27/20 14:11 | 7440-47-3 | |
| Lead, Dissolved | **<5.9** | ug/L | 20.0 | 5.9 | 1 | 10/26/20 11:16 | 10/27/20 14:11 | 7439-92-1 | |
| Manganese, Dissolved | **327** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 14:11 | 7439-96-5 | |
| Selenium, Dissolved | **<12.2** | ug/L | 40.0 | 12.2 | 1 | 10/26/20 11:16 | 10/27/20 14:11 | 7782-49-2 | |
| Silver, Dissolved | **<3.2** | ug/L | 10.0 | 3.2 | 1 | 10/26/20 11:16 | 10/27/20 14:11 | 7440-22-4 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury, Dissolved | **<0.066** | ug/L | 0.20 | 0.066 | 1 | 10/29/20 10:25 | 10/30/20 09:53 | 7439-97-6 | |

**Sample: MW-09-2019** **Lab ID: 40217031012** Collected: 10/20/20 15:00 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic, Dissolved | **14.0J** | ug/L | 25.0 | 8.3 | 1 | 10/26/20 11:16 | 10/27/20 14:13 | 7440-38-2 | |
| Barium, Dissolved | **571** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 14:13 | 7440-39-3 | |
| Cadmium, Dissolved | **<1.3** | ug/L | 5.0 | 1.3 | 1 | 10/26/20 11:16 | 10/27/20 14:13 | 7440-43-9 | |

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

**Sample: MW-09-2019** **Lab ID: 40217031012** Collected: 10/20/20 15:00 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Chromium, Dissolved | **<2.5** | ug/L | 10.0 | 2.5 | 1 | 10/26/20 11:16 | 10/27/20 14:13 | 7440-47-3 | |
| Lead, Dissolved | **<5.9** | ug/L | 20.0 | 5.9 | 1 | 10/26/20 11:16 | 10/27/20 14:13 | 7439-92-1 | |
| Manganese, Dissolved | **291** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 14:13 | 7439-96-5 | |
| Selenium, Dissolved | **<12.2** | ug/L | 40.0 | 12.2 | 1 | 10/26/20 11:16 | 10/27/20 14:13 | 7782-49-2 | |
| Silver, Dissolved | **<3.2** | ug/L | 10.0 | 3.2 | 1 | 10/26/20 11:16 | 10/27/20 14:13 | 7440-22-4 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury, Dissolved | **<0.066** | ug/L | 0.20 | 0.066 | 1 | 10/29/20 10:25 | 10/30/20 09:55 | 7439-97-6 | |

**Sample: P-09-2019** **Lab ID: 40217031013** Collected: 10/20/20 17:05 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic, Dissolved | **12.8J** | ug/L | 25.0 | 8.3 | 1 | 10/26/20 11:16 | 10/27/20 14:16 | 7440-38-2 | |
| Barium, Dissolved | **17.4** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 14:16 | 7440-39-3 | |
| Cadmium, Dissolved | **<1.3** | ug/L | 5.0 | 1.3 | 1 | 10/26/20 11:16 | 10/27/20 14:16 | 7440-43-9 | |
| Chromium, Dissolved | **<2.5** | ug/L | 10.0 | 2.5 | 1 | 10/26/20 11:16 | 10/27/20 14:16 | 7440-47-3 | |
| Lead, Dissolved | **<5.9** | ug/L | 20.0 | 5.9 | 1 | 10/26/20 11:16 | 10/27/20 14:16 | 7439-92-1 | |
| Manganese, Dissolved | **256** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 14:16 | 7439-96-5 | |
| Selenium, Dissolved | **<12.2** | ug/L | 40.0 | 12.2 | 1 | 10/26/20 11:16 | 10/27/20 14:16 | 7782-49-2 | |
| Silver, Dissolved | **<3.2** | ug/L | 10.0 | 3.2 | 1 | 10/26/20 11:16 | 10/27/20 14:16 | 7440-22-4 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury, Dissolved | **<0.066** | ug/L | 0.20 | 0.066 | 1 | 10/29/20 10:25 | 10/30/20 10:02 | 7439-97-6 | |

**Sample: P-09A-2019** **Lab ID: 40217031014** Collected: 10/20/20 15:55 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic, Dissolved | **13.9J** | ug/L | 25.0 | 8.3 | 1 | 10/26/20 11:16 | 10/27/20 14:19 | 7440-38-2 | |
| Barium, Dissolved | **28.7** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 14:19 | 7440-39-3 | |
| Cadmium, Dissolved | **<1.3** | ug/L | 5.0 | 1.3 | 1 | 10/26/20 11:16 | 10/27/20 14:19 | 7440-43-9 | |
| Chromium, Dissolved | **<2.5** | ug/L | 10.0 | 2.5 | 1 | 10/26/20 11:16 | 10/27/20 14:19 | 7440-47-3 | |
| Lead, Dissolved | **<5.9** | ug/L | 20.0 | 5.9 | 1 | 10/26/20 11:16 | 10/27/20 14:19 | 7439-92-1 | |
| Manganese, Dissolved | **397** | ug/L | 5.0 | 1.5 | 1 | 10/26/20 11:16 | 10/27/20 14:19 | 7439-96-5 | |

## REPORT OF LABORATORY ANALYSIS

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

## ANALYTICAL RESULTS

Project: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

**Sample: P-09A-2019** **Lab ID: 40217031014** Collected: 10/20/20 15:55 Received: 10/22/20 09:50 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP, Dissolved** | Analytical Method: EPA 6010 Preparation Method: EPA 3010<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Selenium, Dissolved | **<12.2** | ug/L | 40.0 | 12.2 | 1 | 10/26/20 11:16 | 10/27/20 14:19 | 7782-49-2 | |
| Silver, Dissolved | **<3.2** | ug/L | 10.0 | 3.2 | 1 | 10/26/20 11:16 | 10/27/20 14:19 | 7440-22-4 | |
| **7470 Mercury, Dissolved** | Analytical Method: EPA 7470 Preparation Method: EPA 7470<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury, Dissolved | **<0.066** | ug/L | 0.20 | 0.066 | 1 | 10/29/20 10:25 | 10/30/20 10:04 | 7439-97-6 | |

## REPORT OF LABORATORY ANALYSIS

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

## QUALITY CONTROL DATA

Project: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

QC Batch: 369776 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40217031001, 40217031002, 40217031003, 40217031004, 40217031005, 40217031006, 40217031007, 40217031008, 40217031009, 40217031010, 40217031011, 40217031012, 40217031013, 40217031014

METHOD BLANK: 2137370 — Matrix: Water
Associated Lab Samples: 40217031001, 40217031002, 40217031003, 40217031004, 40217031005, 40217031006, 40217031007, 40217031008, 40217031009, 40217031010, 40217031011, 40217031012, 40217031013, 40217031014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | <0.066 | 0.20 | 10/30/20 09:16 | |

LABORATORY CONTROL SAMPLE: 2137371

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | 5 | 4.8 | 97 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2137372 2137373

| Parameter | Units | 40217031001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury, Dissolved | ug/L | <0.066 | 5 | 5 | 4.8 | 4.5 | 96 | 91 | 85-115 | 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: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

QC Batch: 369367
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40217031001, 40217031002, 40217031003, 40217031004, 40217031005, 40217031006, 40217031007, 40217031008, 40217031009, 40217031010, 40217031011, 40217031012, 40217031013, 40217031014

METHOD BLANK: 2135575 Matrix: Water
Associated Lab Samples: 40217031001, 40217031002, 40217031003, 40217031004, 40217031005, 40217031006, 40217031007, 40217031008, 40217031009, 40217031010, 40217031011, 40217031012, 40217031013, 40217031014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic, Dissolved | ug/L | <8.3 | 25.0 | 10/27/20 13:09 | |
| Barium, Dissolved | ug/L | <1.5 | 5.0 | 10/27/20 13:09 | |
| Cadmium, Dissolved | ug/L | <1.3 | 5.0 | 10/27/20 13:09 | |
| Chromium, Dissolved | ug/L | <2.5 | 10.0 | 10/27/20 13:09 | |
| Lead, Dissolved | ug/L | <5.9 | 20.0 | 10/27/20 13:09 | |
| Manganese, Dissolved | ug/L | <1.5 | 5.0 | 10/27/20 13:09 | |
| Selenium, Dissolved | ug/L | <12.2 | 40.0 | 10/27/20 13:09 | |
| Silver, Dissolved | ug/L | <3.2 | 10.0 | 10/27/20 13:09 | |

LABORATORY CONTROL SAMPLE: 2135576

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic, Dissolved | ug/L | 500 | 481 | 96 | 80-120 | |
| Barium, Dissolved | ug/L | 500 | 469 | 94 | 80-120 | |
| Cadmium, Dissolved | ug/L | 500 | 477 | 95 | 80-120 | |
| Chromium, Dissolved | ug/L | 500 | 474 | 95 | 80-120 | |
| Lead, Dissolved | ug/L | 500 | 486 | 97 | 80-120 | |
| Manganese, Dissolved | ug/L | 500 | 466 | 93 | 80-120 | |
| Selenium, Dissolved | ug/L | 500 | 471 | 94 | 80-120 | |
| Silver, Dissolved | ug/L | 250 | 245 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2135577 2135578

| Parameter | Units | 40217031001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic, Dissolved | ug/L | <8.3 | 500 | 500 | 490 | 512 | 97 | 101 | 75-125 | 4 | 20 | |
| Barium, Dissolved | ug/L | 84.8 | 500 | 500 | 549 | 568 | 93 | 97 | 75-125 | 3 | 20 | |
| Cadmium, Dissolved | ug/L | <1.3 | 500 | 500 | 481 | 501 | 96 | 100 | 75-125 | 4 | 20 | |
| Chromium, Dissolved | ug/L | <2.5 | 500 | 500 | 469 | 487 | 94 | 97 | 75-125 | 4 | 20 | |
| Lead, Dissolved | ug/L | <5.9 | 500 | 500 | 476 | 496 | 95 | 99 | 75-125 | 4 | 20 | |
| Manganese, Dissolved | ug/L | 188 | 500 | 500 | 650 | 670 | 92 | 96 | 75-125 | 3 | 20 | |
| Selenium, Dissolved | ug/L | <12.2 | 500 | 500 | 469 | 495 | 93 | 99 | 75-125 | 5 | 20 | |
| Silver, Dissolved | ug/L | <3.2 | 250 | 250 | 249 | 259 | 99 | 103 | 75-125 | 4 | 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

# QUALIFIERS

Project: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

**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.

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

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHE8094OQ METRO N SERVICE CENT
Pace Project No.: 40217031

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40217031001** | **MW-01-2019** | EPA 3010 | 369367 | EPA 6010 | 369545 |
| **40217031002** | **P-01-2019** | EPA 3010 | 369367 | EPA 6010 | 369545 |
| **40217031003** | **MW-02-2019** | EPA 3010 | 369367 | EPA 6010 | 369545 |
| **40217031004** | **MW-03-2019** | EPA 3010 | 369367 | EPA 6010 | 369545 |
| **40217031005** | **MW-04-2019** | EPA 3010 | 369367 | EPA 6010 | 369545 |
| **40217031006** | **P-05-2019** | EPA 3010 | 369367 | EPA 6010 | 369545 |
| **40217031007** | **MW-06-2019** | EPA 3010 | 369367 | EPA 6010 | 369545 |
| **40217031008** | **MW-07-2019** | EPA 3010 | 369367 | EPA 6010 | 369545 |
| **40217031009** | **P-07-2019** | EPA 3010 | 369367 | EPA 6010 | 369545 |
| **40217031010** | **MW-08-2019** | EPA 3010 | 369367 | EPA 6010 | 369545 |
| **40217031011** | **P-08-2019** | EPA 3010 | 369367 | EPA 6010 | 369545 |
| **40217031012** | **MW-09-2019** | EPA 3010 | 369367 | EPA 6010 | 369545 |
| **40217031013** | **P-09-2019** | EPA 3010 | 369367 | EPA 6010 | 369545 |
| **40217031014** | **P-09A-2019** | EPA 3010 | 369367 | EPA 6010 | 369545 |
| **40217031001** | **MW-01-2019** | EPA 7470 | 369776 | EPA 7470 | 369807 |
| **40217031002** | **P-01-2019** | EPA 7470 | 369776 | EPA 7470 | 369807 |
| **40217031003** | **MW-02-2019** | EPA 7470 | 369776 | EPA 7470 | 369807 |
| **40217031004** | **MW-03-2019** | EPA 7470 | 369776 | EPA 7470 | 369807 |
| **40217031005** | **MW-04-2019** | EPA 7470 | 369776 | EPA 7470 | 369807 |
| **40217031006** | **P-05-2019** | EPA 7470 | 369776 | EPA 7470 | 369807 |
| **40217031007** | **MW-06-2019** | EPA 7470 | 369776 | EPA 7470 | 369807 |
| **40217031008** | **MW-07-2019** | EPA 7470 | 369776 | EPA 7470 | 369807 |
| **40217031009** | **P-07-2019** | EPA 7470 | 369776 | EPA 7470 | 369807 |
| **40217031010** | **MW-08-2019** | EPA 7470 | 369776 | EPA 7470 | 369807 |
| **40217031011** | **P-08-2019** | EPA 7470 | 369776 | EPA 7470 | 369807 |
| **40217031012** | **MW-09-2019** | EPA 7470 | 369776 | EPA 7470 | 369807 |
| **40217031013** | **P-09-2019** | EPA 7470 | 369776 | EPA 7470 | 369807 |
| **40217031014** | **P-09A-2019** | EPA 7470 | 369776 | EPA 7470 | 369807 |

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

Page 1 of 2

# CHAIN OF CUSTODY

4021031

| (Please Print Clearly) | |
|---|---|
| Company Name: | Geosyntec Consultants |
| Branch/Location: | Mequon, WI |
| Project Contact: | Jeremiah Johnson |
| Phone: | 262-834-0228 |
| Project Number: | [redacted] CHE809401Q |
| Project Name: | Metro North Service Center |
| Project State: | WI |
| Sampled By (Print): | C. Holp |
| Sampled By (Sign): | Cadyan Holp |
| PO #: | Regulatory Program: |

*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: | Jeremiah Johnson |
| Mail To Company: | Geosyntec Consultants |
| Mail To Address: | 10600 N. Port Washington Rd Ste 100 Mequon, WI 53092 |
| Invoice To Contact: | |
| Invoice To Company: | We Energies |
| 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: Dissolved RCRA Metals, Dissolved Manganese | CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Y/N | Pick Letter | | | | |
| 001 | MW-01-2019 | 10/19/20 | 1215 | GW | Y | D | X | | | |
| 002 | P-01-2019 | 10/19/20 | 1340 | | | | | | | |
| 003 | MW-02-2019 | 10/20/20 | 0820 | | | | | | | |
| 004 | MW-03-2019 | 10/20/20 | 0920 | | | | | | | |
| 005 | MW-04-2019 | 10/20/20 | 1015 | | | | | | | |
| 006 | P-05-2019 | 10/19/20 | 1520 | | | | | | | |
| 007 | MW-06-2019 | 10/20/20 | 1305 | | | | | | | |
| 008 | MW-07-2019 | 10/20/20 | 1205 | | | | | | | |
| 009 | ~~P-07-2019~~ P-09-2019 | 10/20/20 | 1140 | | | | | | | |
| 010 | MW-08-2019 | 10/20/20 | 1400 | | | | | | | |
| 011 | P-08-2019 | 10/20/20 | 1345 | | | | | | | |
| 012 | MW-09-2019 | 10/20/20 | 1500 | | | | | | | |
| 013 | P-09-2019 | 10/20/20 | 1705 | | | | | | | |

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: |
|---|---|---|---|
| Cadyan Holp | 10/21/20 10:00 | Mary Fannin | 10/21/20 10:00 |
| Mary Fannin | 10/21/20 1415 | | |
| C. Sologistics | 10/22/20 0950 | | 10/22/20 0950 |
| | | | |
| | | | |

PACE Project No.
4021031

Receipt Temp = 1.0 °C

Sample Receipt pH
(OK) Adjusted

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

Version 6.0 06/14/06

ORIGINAL

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

Page 2 of 2

40217031

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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: | Geosyntec |
| Branch/Location: | |
| Project Contact: | SEE PAGE 1/2 |
| Phone: | |
| Project Number: | |
| Project Name: | |
| Project State: | |
| Sampled By (Print): | C. Kolp |
| Sampled By (Sign): | Codyan Kolp |
| PO #: | Regulatory Program: |

| Quote #: | |
|---|---|
| Mail To Contact: | SEE PAGE 1/2 |
| 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) Y/N | PRESERVATION (CODE)* Pick Letter | Analyses Requested: Dissolved RCRA Metals and dissolved manganese | CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|---|---|---|---|---|---|---|---|---|---|---|
| 014 | P-09A-2019 | 10/20/20 | 1555 | GW | Y | D | X | | | |
| | ~~FIELD BLANK~~ CK | | | | | | | | | |

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: |
|---|---|---|---|
| Codyan Kolp | 10/21/20 10:00 | Mary Fannin | 10/21/20 10:00 |
| Mary Fannin | 10/21/20 1415 | | |
| C. Stogistils | 10/22/20 0950 | | 10/22/20 0950 |
| | | | |
| | | | |

PACE Project No.: 40217031
Receipt Temp = not °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

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



# Sample Preservation Receipt Form

Client Name: GeoSyntec  Project # 40247031

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

Lab Lot# of pH paper: 10D4194  Lab Std #ID of preservation (if pH adjusted):

| Pace Lab # | Glass | | | | | | | | Plastic | | | | | Vials | | | | | | Jars | | | | General | | | VOA Vials (>6mm) * | H2SO4 pH ≤2 | NaOH+Zn Act pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤2 | pH after adjusted | Volume (mL) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AG1U | BG1U | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U | BP1U | BP3U | BP3B | BP3N | BP3S | VG9A | DG9T | VG9U | VG9H | VG9M | VG9D | JGFU | JG9U | WGFU | WPFU | SP5T | ZPLC | GN | | | | | | |
| 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 |

10/24/19

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 |
| BG1U | 1 liter clear glass |
| AG1H | 1 liter amber glass HCL |
| AG4S | 125 mL amber glass H2SO4 |
| AG4U | 120 mL amber glass unpres |
| AG5U | 100 mL amber glass unpres |
| AG2S | 500 mL amber glass H2SO4 |
| BG3U | 250 mL clear glass unpres |

| | |
|---|---|
| BP1U | 1 liter plastic unpres |
| BP3U | 250 mL plastic unpres |
| BP3B | 250 mL plastic NaOH |
| BP3N | 250 mL plastic HNO3 |
| BP3S | 250 mL plastic H2SO4 |

| | |
|---|---|
| VG9A | 40 mL clear ascorbic |
| DG9T | 40 mL amber Na Thio |
| VG9U | 40 mL clear vial unpres |
| VG9H | 40 mL clear vial HCL |
| VG9M | 40 mL clear vial MeOH |
| VG9D | 40 mL clear vial DI |

| | |
|---|---|
| JGFU | 4 oz amber jar unpres |
| JG9U | 9 oz amber jar unpres |
| WGFU | 4 oz clear jar unpres |
| WPFU | 4 oz plastic jar unpres |
| SP5T | 120 mL plastic Na Thiosulfate |
| ZPLC | ziploc bag |
| GN | |

| Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302 | Document Name: **Sample Condition Upon Receipt (SCUR)** | Document Revised: 26Mar2020 |
|---|---|---|
| | Document No.: **ENV-FRM-GBAY-0014-Rev.00** | Author: Pace Green Bay Quality Office |

# Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40217031

**Client Name:** Geosyntec Cons.

**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 - NA **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

**Cooler Temperature** Uncorr: RDI /Corr: _____

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

**Person examining contents:** Date: 10/22/20 Initials: MP

**Labeled By Initials:** SRK

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

| | | |
|---|---|---|
| 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): _____ | | |

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

Person Contacted: _____ Date/Time: _____

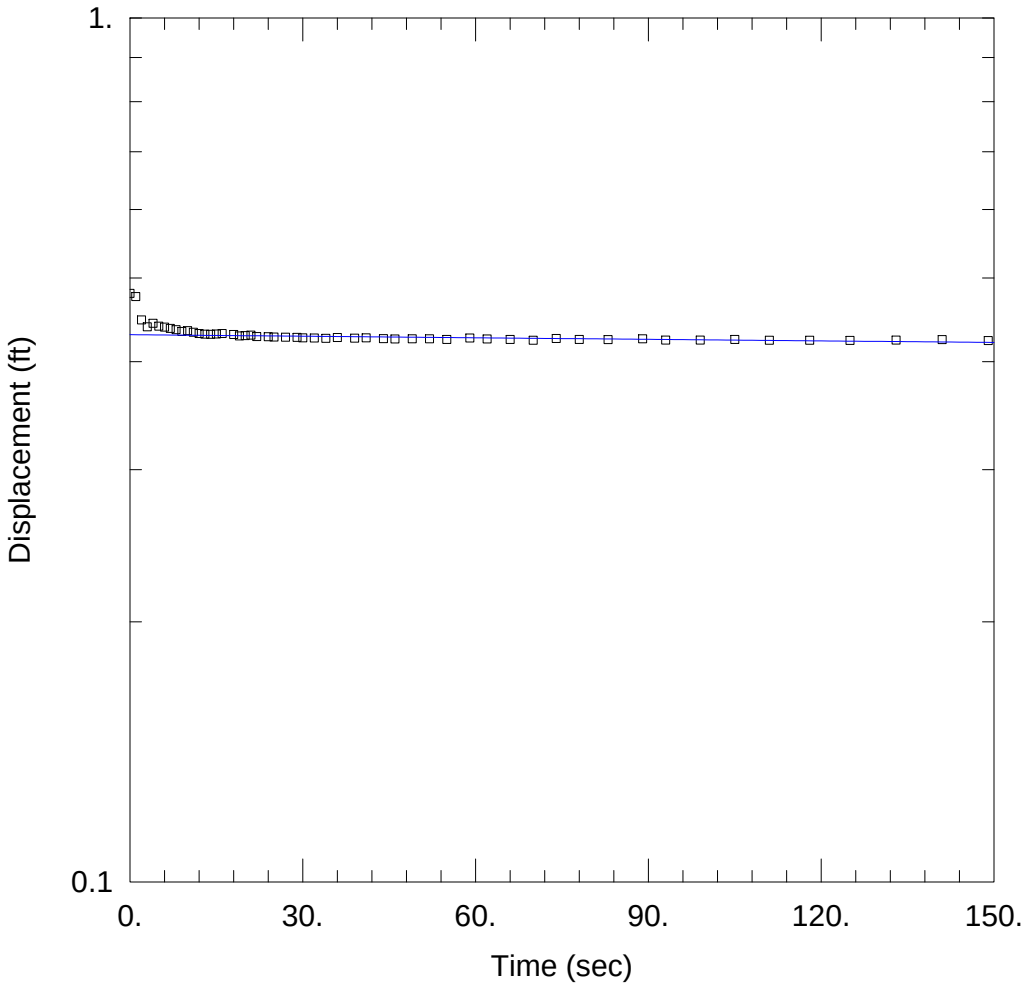
Comments/ Resolution: _____

**PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir**

**TABLE 2-1**
**Summary of Slug Test Data**
Metro North Service Center (MNSC)
3100 West North Avenue
Milwaukee, Wisconsin

| Monitoring Well | Slug Test Type | Hydraulic Conductivity | | |
|---|---|---|---|---|
| | | Test Result | Well Geometric Mean | Unit Geometric Mean |
| | | (cm/sec) | (cm/sec) | (cm/sec) |
| MW-01-2019 | Falling-Head | 6.409E-06 | 9.759E-06 | 1.657E-05 |
| MW-01-2019 | Falling-Head | 1.486E-05 | | |
| MW-02-2019 | Falling-Head | 1.486E-05 | 1.542E-05 | |
| MW-02-2019 | Falling-Head | 1.486E-05 | | |
| MW-02-2019 | Falling-Head | 6.152E-06 | | |
| MW-02-2019 | Rising-Head | 4.165E-05 | | |
| MW-03-2019 | Falling-Head | 6.442E-06 | 2.875E-05 | |
| MW-03-2019 | Rising-Head | 1.283E-04 | | |
| MW-04-2019 | Falling-Head | 9.541E-05 | 4.709E-05 | |
| MW-04-2019 | Falling-Head | 7.071E-05 | | |
| MW-04-2019 | Rising-Head | 2.627E-05 | | |
| MW-04-2019 | Rising-Head | 2.775E-05 | | |
| MW-06-2019 | Falling-Head | 1.038E-05 | 1.038E-05 | |
| MW-07-2019 | Falling-Head | 8.473E-06 | 7.710E-06 | |
| MW-07-2019 | Rising-Head | 7.015E-06 | | |
| MW-08-2019 | Falling-Head | 8.121E-06 | 8.121E-06 | |
| MW-09-2019 | Falling-Head | 4.890E-06 | 4.890E-06 | |
| P-01-2019 | Falling-Head | 1.935E-03 | 3.923E-03 | 9.411E-03 |
| P-01-2019 | Falling-Head | 2.918E-03 | | |
| P-01-2019 | Falling-Head | 2.155E-03 | | |
| P-01-2019 | Rising-Head | 6.874E-03 | | |
| P-01-2019 | Rising-Head | 1.111E-02 | | |
| P-05-2019 | Falling-Head | 5.982E-03 | 4.058E-03 | |
| P-05-2019 | Falling-Head | 5.851E-03 | | |
| P-05-2019 | Falling-Head | 4.364E-03 | | |
| P-05-2019 | Rising-Head | 3.450E-03 | | |
| P-05-2019 | Rising-Head | 2.912E-03 | | |
| P-05-2019 | Rising-Head | 2.912E-03 | | |
| P-08-2019 | Falling-Head | 5.249E-02 | 4.524E-02 | |
| P-08-2019 | Falling-Head | 4.640E-02 | | |
| P-08-2019 | Falling-Head | 3.665E-02 | | |
| P-08-2019 | Rising-Head | 5.139E-02 | | |
| P-08-2019 | Rising-Head | 4.284E-02 | | |
| P-08-2019 | Rising-Head | 4.365E-02 | | |
| P-09A-2019 | Falling-Head | 2.175E-05 | 2.175E-05 | 2.175E-05 |

*Notes:*
cm/sec - centimeters per second




## WELL TEST ANALYSIS

Data Set: P:\...\MW01-2019_FALLING_01.aqt
Date: 07/18/22 Time: 21:23:35

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-01-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

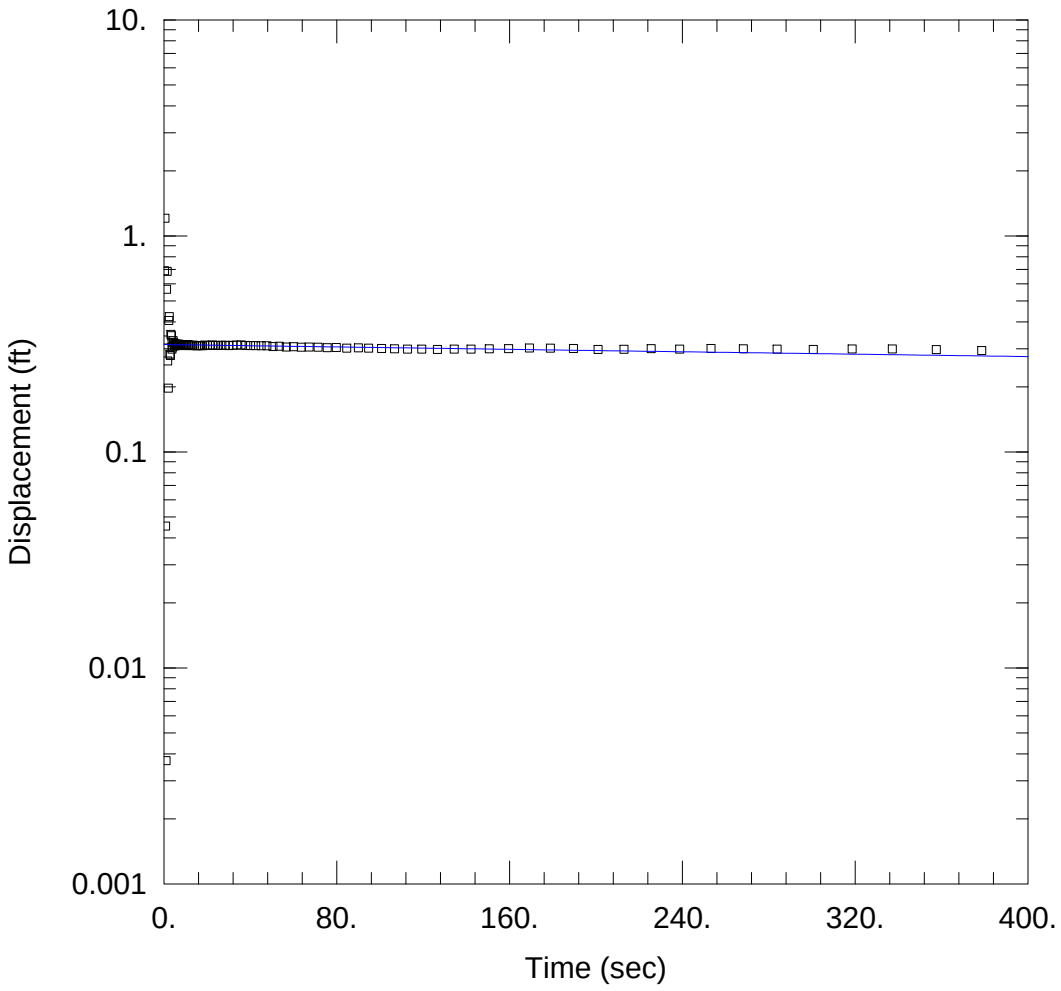
## WELL DATA (MW-01-2019)

Initial Displacement: 0.48 ft
Total Well Penetration Depth: 6.93 ft
Casing Radius: 0.085 ft
Static Water Column Height: 6.93 ft
Screen Length: 6.93 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 6.409E-6 cm/sec y0 = 0.4299 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW01-2019_FALLING_05.aqt
Date: 07/18/22 Time: 21:23:43

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-01-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

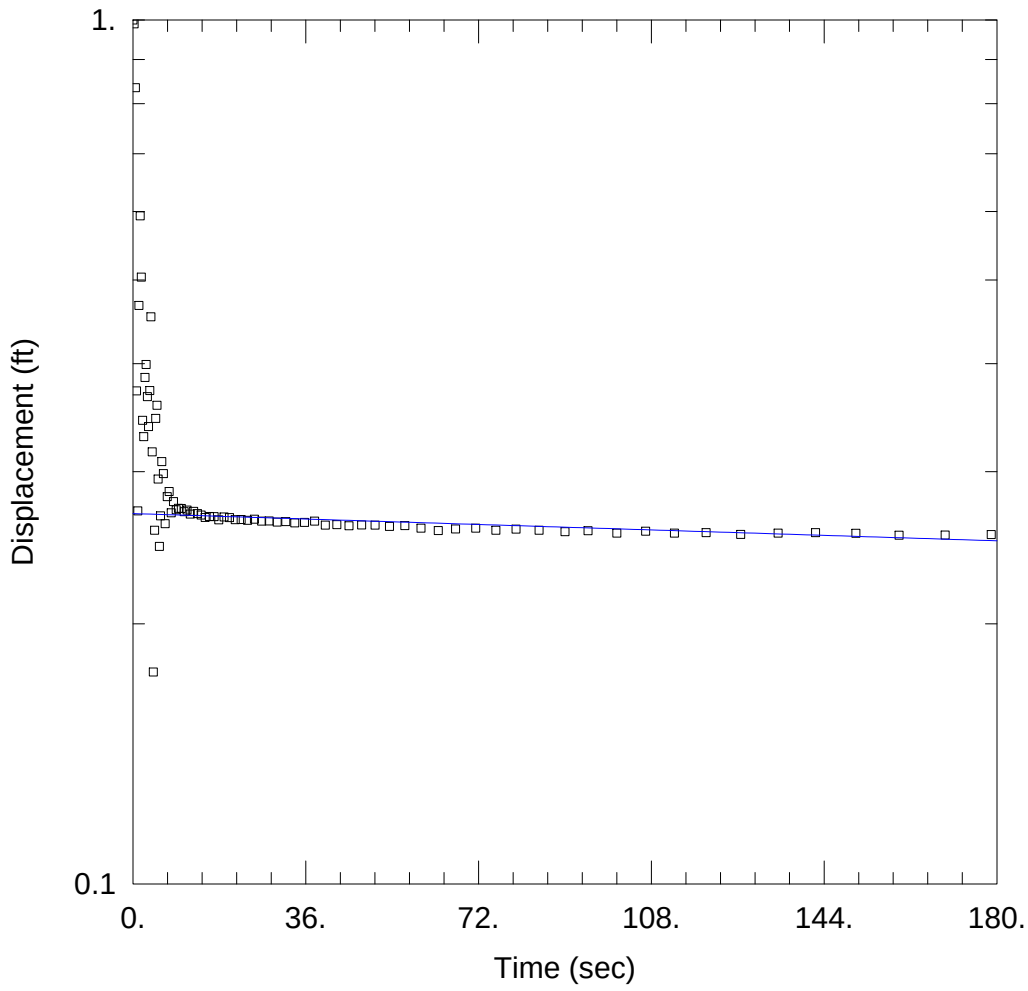
## WELL DATA (MW-01-2019)

Initial Displacement: 0.33 ft
Total Well Penetration Depth: 6.93 ft
Casing Radius: 0.085 ft
Static Water Column Height: 6.93 ft
Screen Length: 6.93 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.486E-5 cm/sec y0 = 0.3141 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW02-2019_FALLING_01.aqt
Date: 07/18/22 Time: 21:26:12

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-02-2019
Test Date: 7/9/2020

## AQUIFER DATA

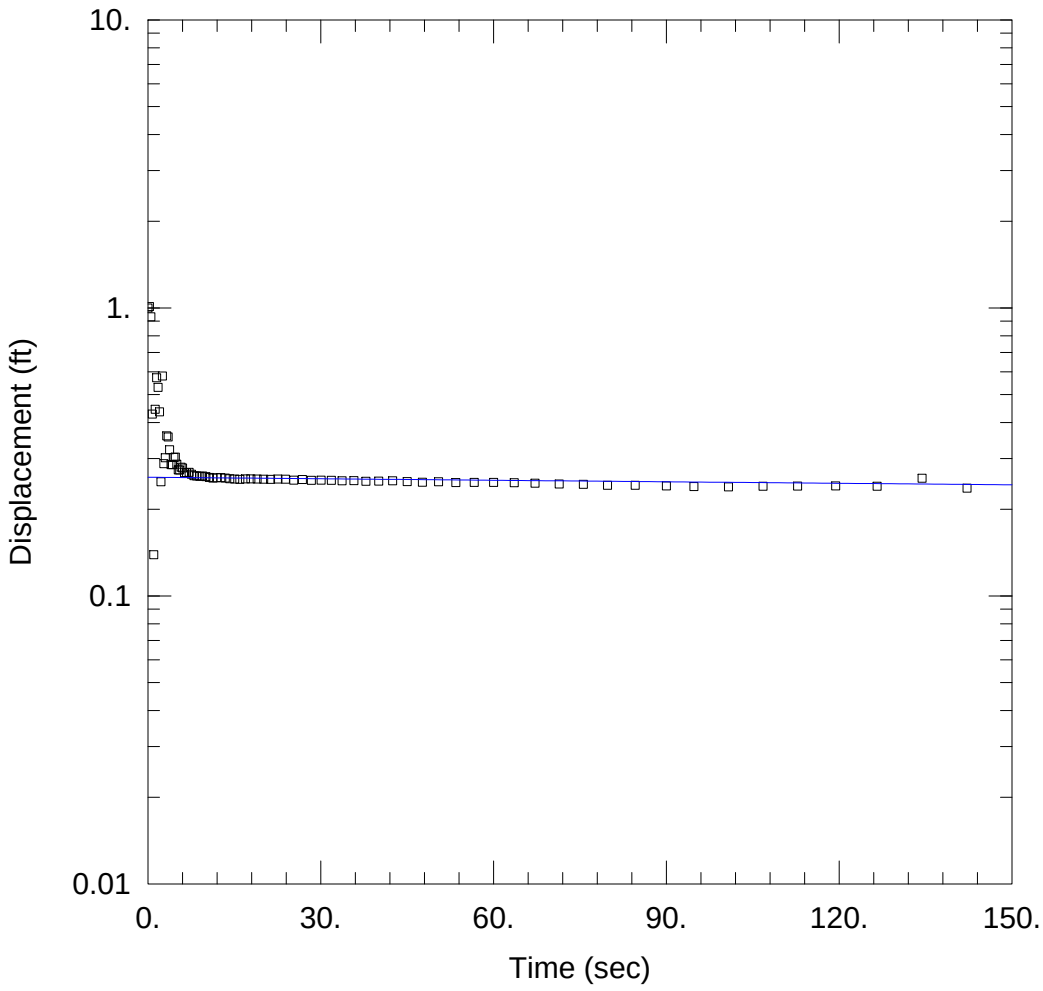
Saturated Thickness: 15. ft
Anisotropy Ratio (Kz/Kr): 0.01

## WELL DATA (MW-02-2019)

Initial Displacement: 1. ft
Total Well Penetration Depth: 9.49 ft
Casing Radius: 0.085 ft
Static Water Column Height: 9.49 ft
Screen Length: 9.49 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.486E-5 cm/sec
y0 = 0.2683 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW02-2019_FALLING_03.aqt
Date: 07/18/22 Time: 21:26:36

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-02-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

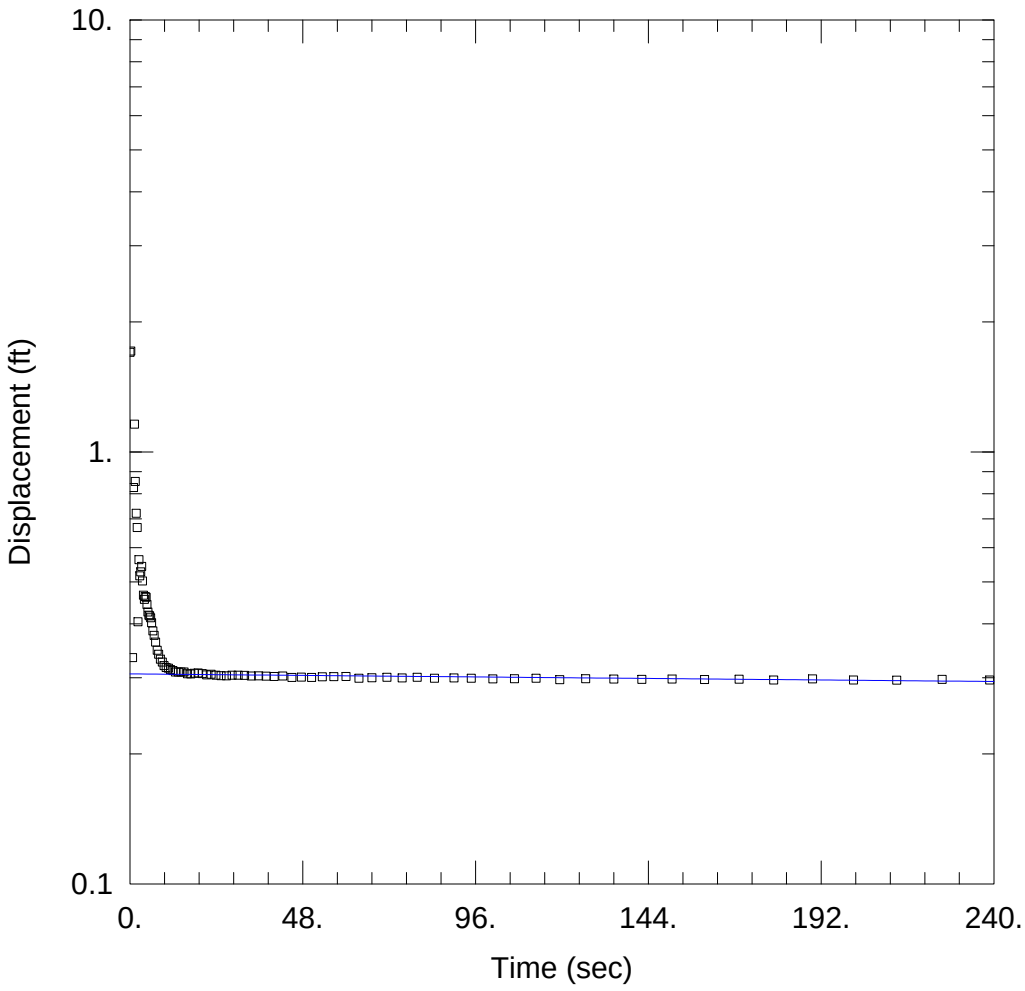
## WELL DATA (MW-02-2019)

Initial Displacement: 1. ft
Total Well Penetration Depth: 9.49 ft
Casing Radius: 0.085 ft
Static Water Column Height: 9.49 ft
Screen Length: 9.49 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.486E-5 cm/sec y0 = 0.2583 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW02-2019_FALLING_04.aqt
Date: 07/18/22 Time: 21:27:00

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-02-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

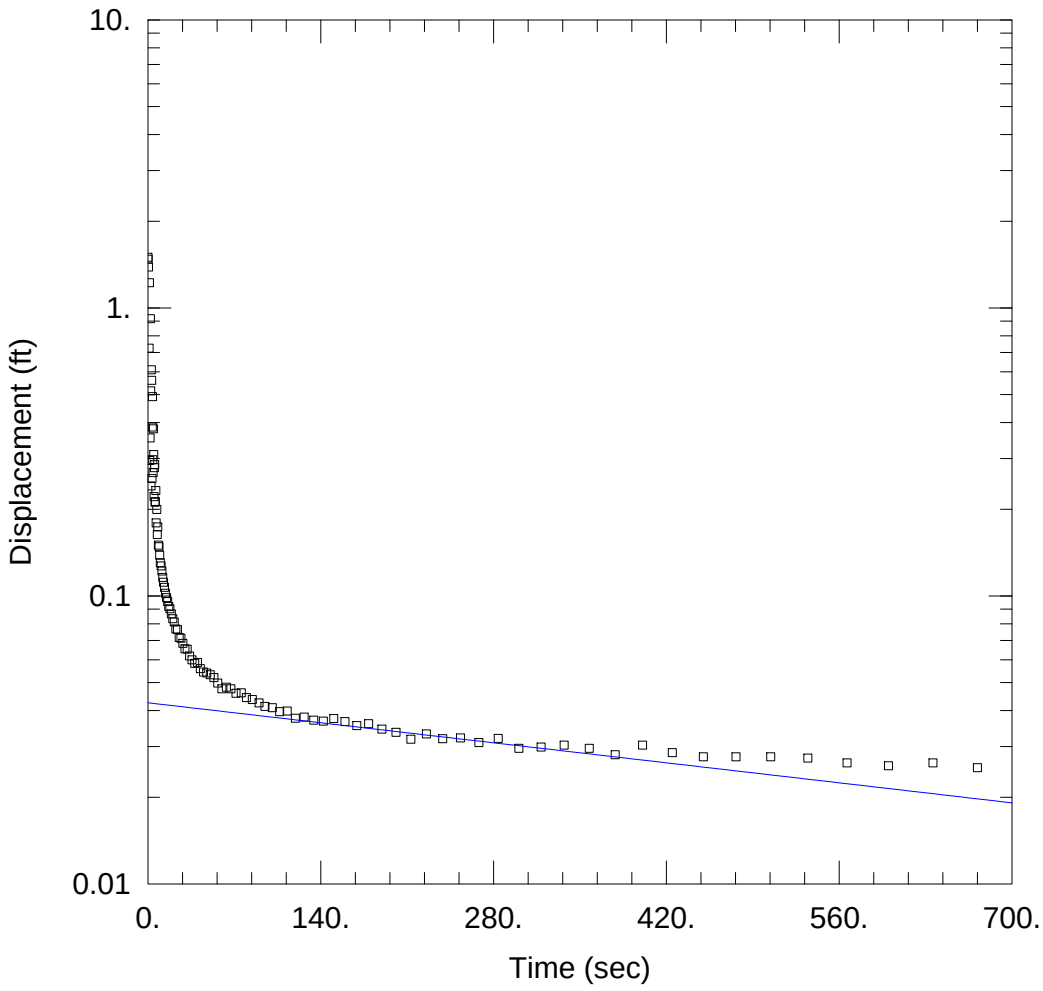
## WELL DATA (MW-02-2019)

Initial Displacement: 1.7 ft
Total Well Penetration Depth: 9.64 ft
Casing Radius: 0.085 ft
Static Water Column Height: 9.64 ft
Screen Length: 9.64 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 6.152E-6 cm/sec y0 = 0.3063 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW02-2019_RISING_05.aqt
Date: 07/18/22 Time: 21:29:28

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-02-2019
Test Date: 7/10/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

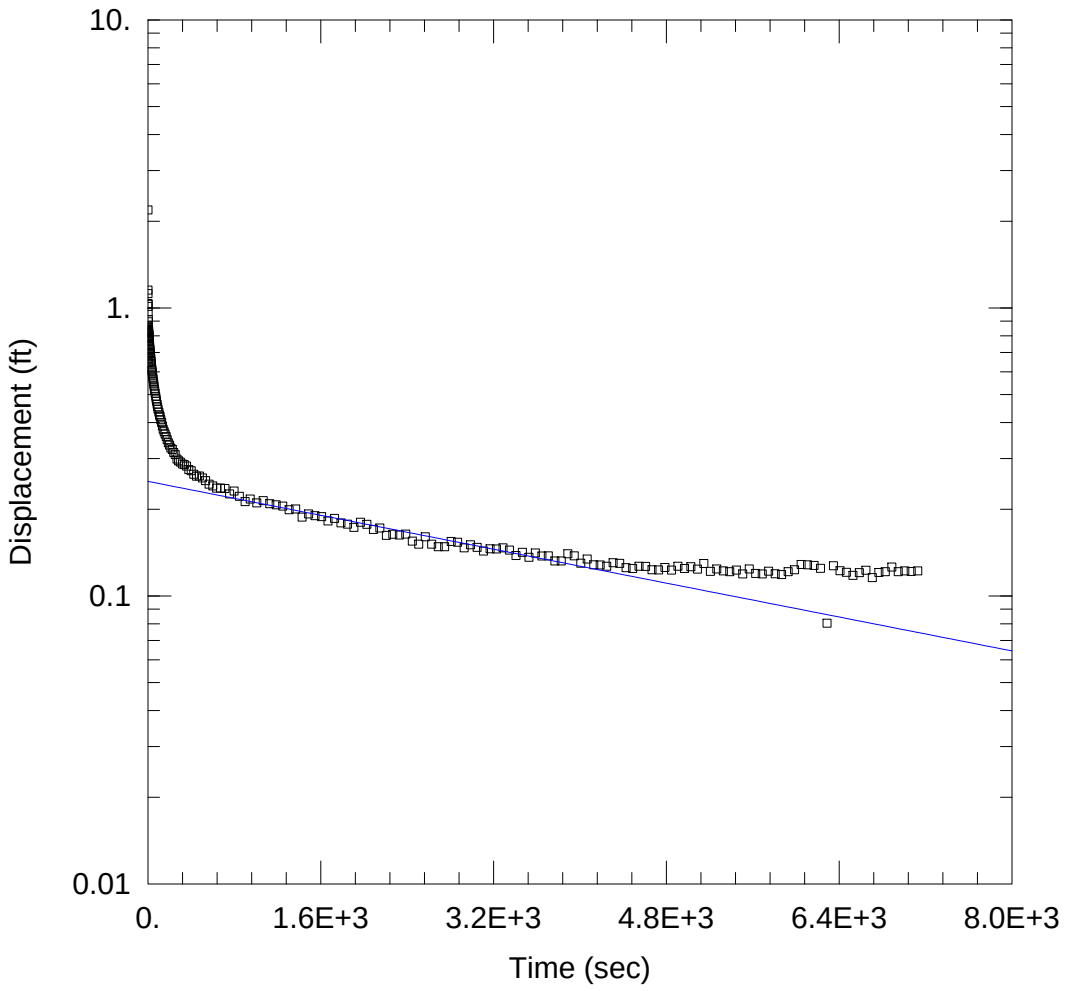
## WELL DATA (MW-02-2019)

Initial Displacement: 1.5 ft
Total Well Penetration Depth: 9.64 ft
Casing Radius: 0.085 ft
Static Water Column Height: 9.64 ft
Screen Length: 9.64 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 4.165E-5 cm/sec y0 = 0.04255 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW03-2019_FALLING_03.aqt
Date: 07/18/22 Time: 21:32:04

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-03-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

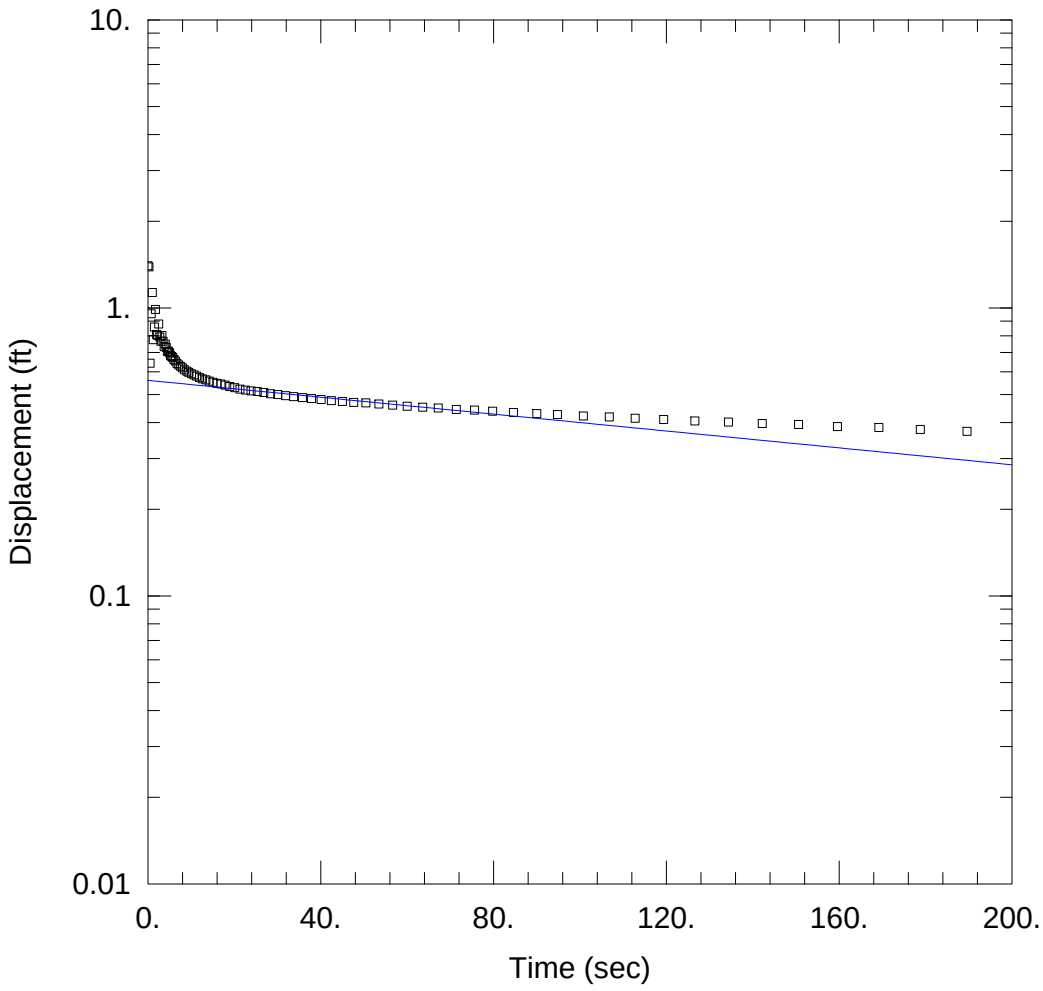
## WELL DATA (MW-03-2019)

Initial Displacement: 2.19 ft
Total Well Penetration Depth: 9.09 ft
Casing Radius: 0.085 ft
Static Water Column Height: 9.09 ft
Screen Length: 9.09 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 6.442E-6 cm/sec y0 = 0.2498 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW03-2019_RISING_02.aqt
Date: 07/18/22 Time: 21:32:09

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-03-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

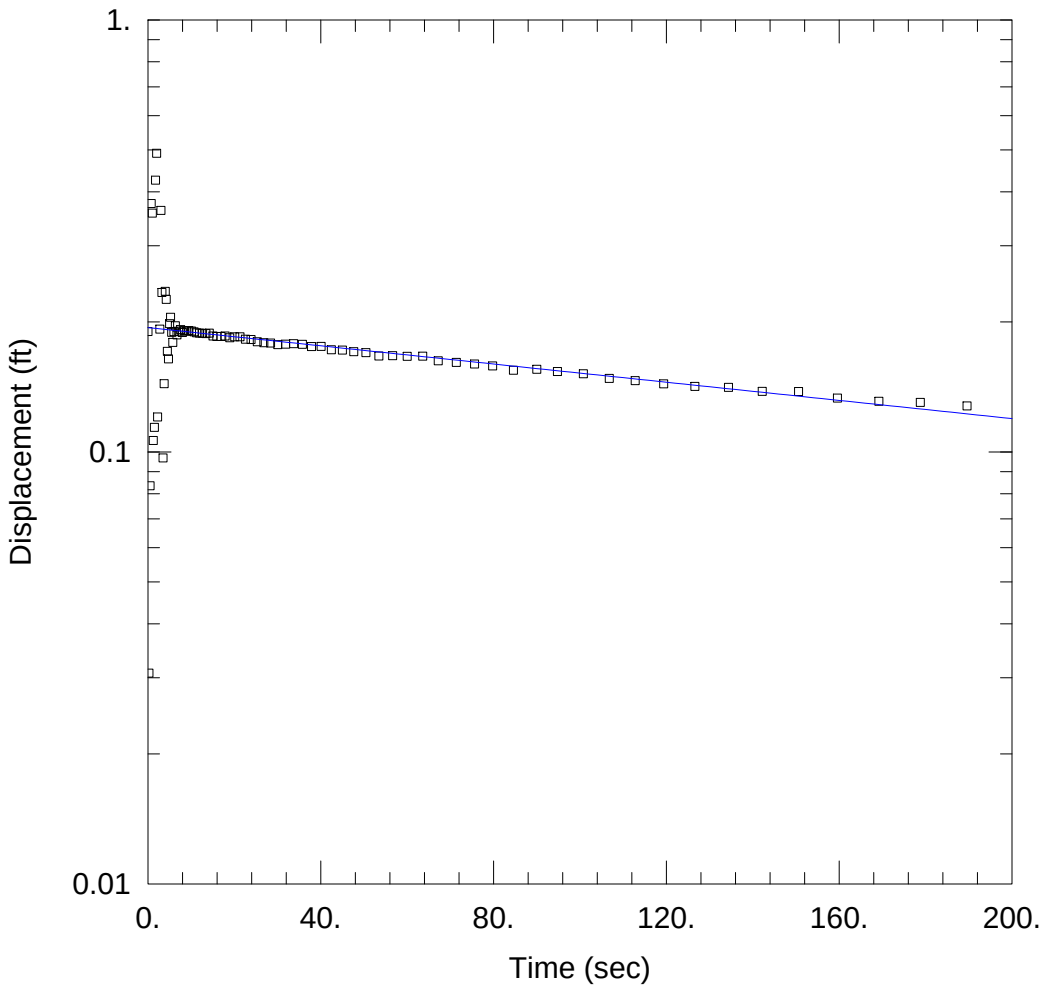
## WELL DATA (MW-03-2019)

Initial Displacement: 1.4 ft
Total Well Penetration Depth: 9.09 ft
Casing Radius: 0.085 ft
Static Water Column Height: 9.09 ft
Screen Length: 9.09 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0001283 cm/sec y0 = 0.5604 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW04-2019_FALLING_02.aqt
Date: 07/18/22 Time: 21:33:27

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-04-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

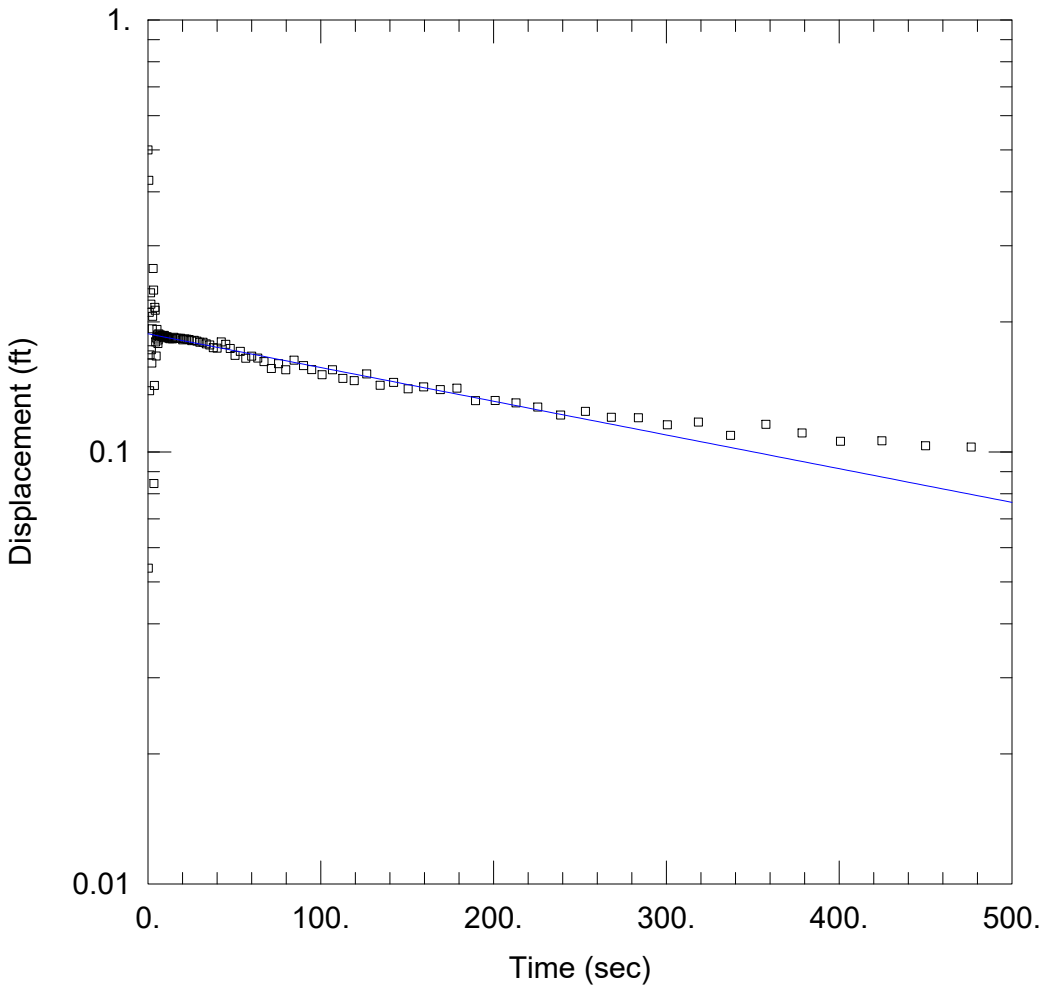
## WELL DATA (MW-04-2019)

Initial Displacement: 0.19 ft
Total Well Penetration Depth: 8.67 ft
Casing Radius: 0.085 ft
Static Water Column Height: 8.67 ft
Screen Length: 8.67 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 9.541E-5 cm/sec y0 = 0.1939 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW04-2019_FALLING_04.aqt
Date: 07/26/22 Time: 10:22:32

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-04-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

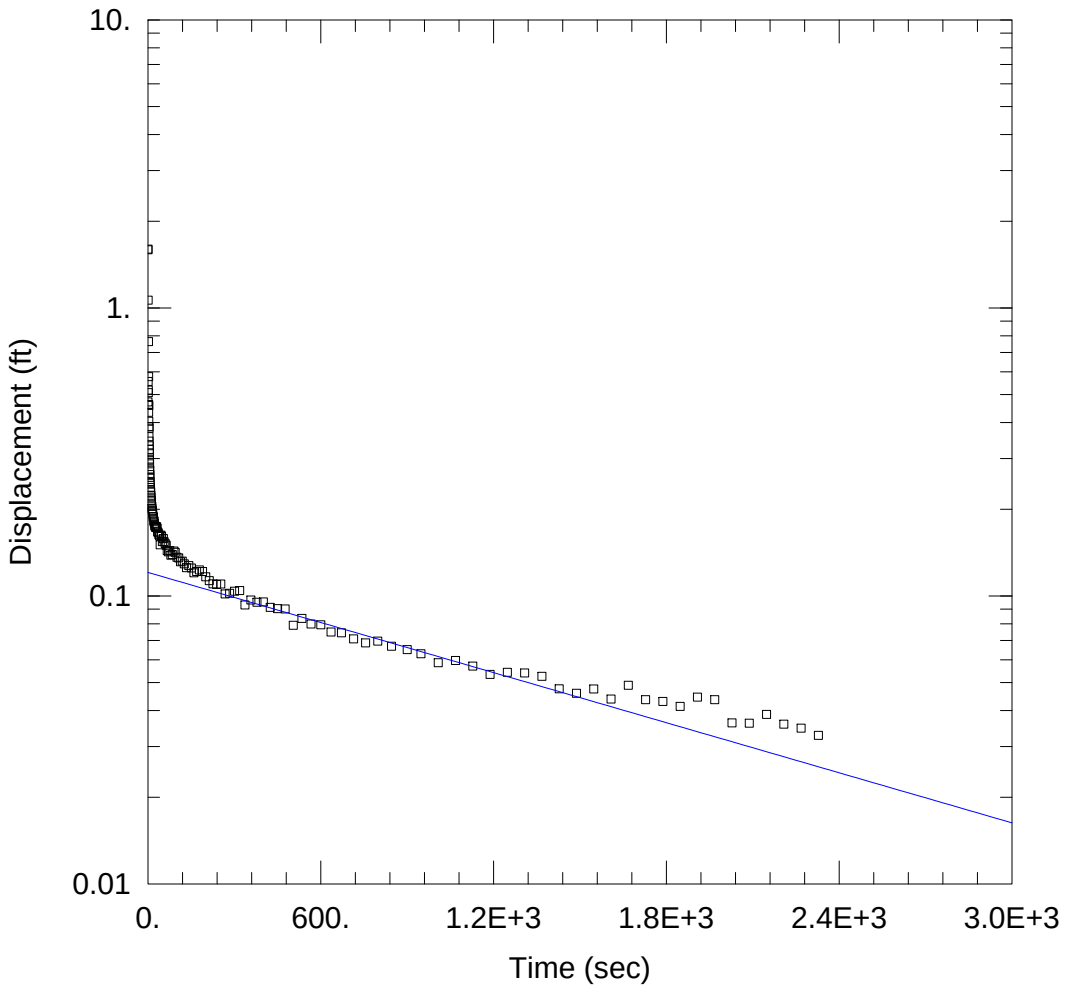
## WELL DATA (MW-04-2019)

Initial Displacement: 0.5 ft
Total Well Penetration Depth: 8.67 ft
Casing Radius: 0.085 ft
Static Water Column Height: 8.67 ft
Screen Length: 8.67 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 7.071E-5 cm/sec y0 = 0.1876 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW04-2019_RISING_03.aqt
Date: 07/18/22 Time: 21:33:52

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-04-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

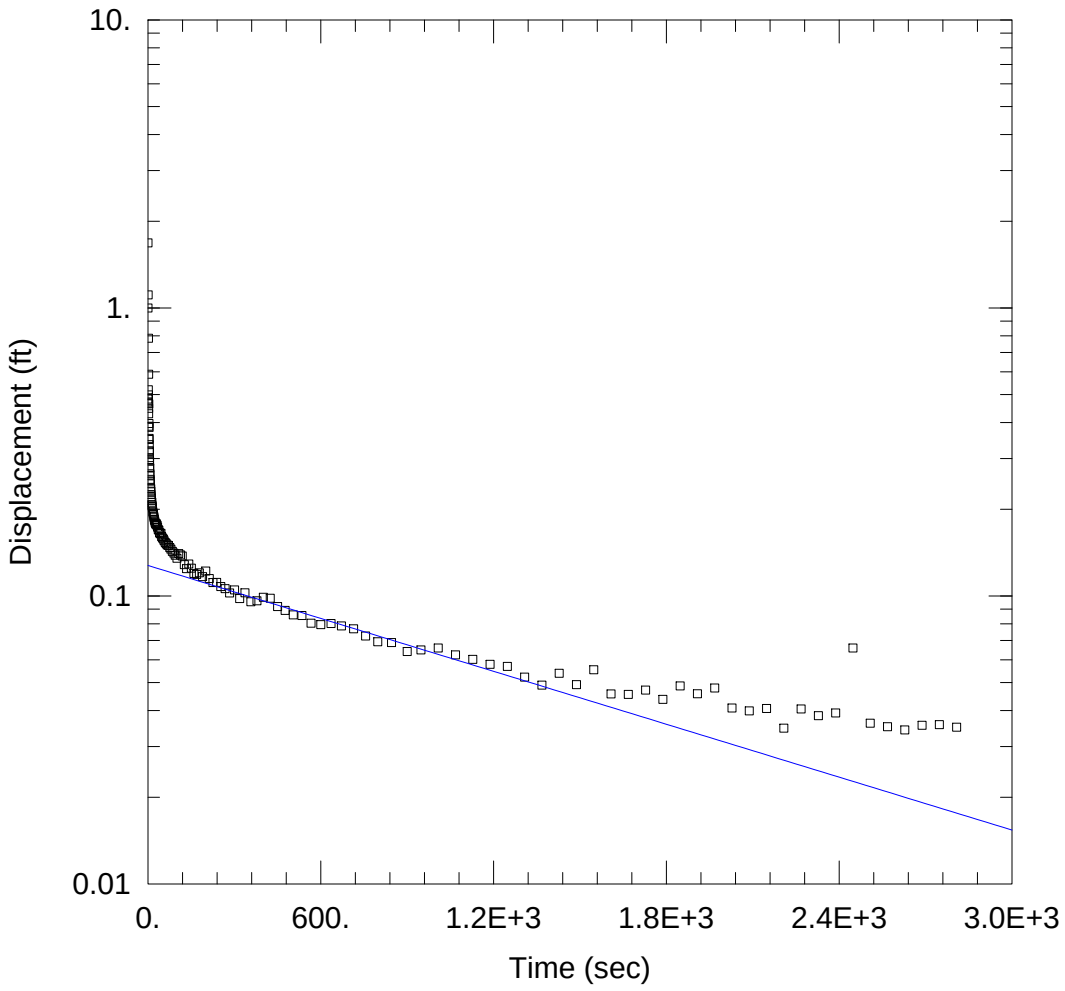
## WELL DATA (MW-04-2019)

Initial Displacement: 1.6 ft
Total Well Penetration Depth: 8.67 ft
Casing Radius: 0.085 ft
Static Water Column Height: 8.67 ft
Screen Length: 8.67 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.627E-5 cm/sec y0 = 0.1206 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW04-2019_RISING_05.aqt
Date: 07/18/22 Time: 21:35:46

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-04-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

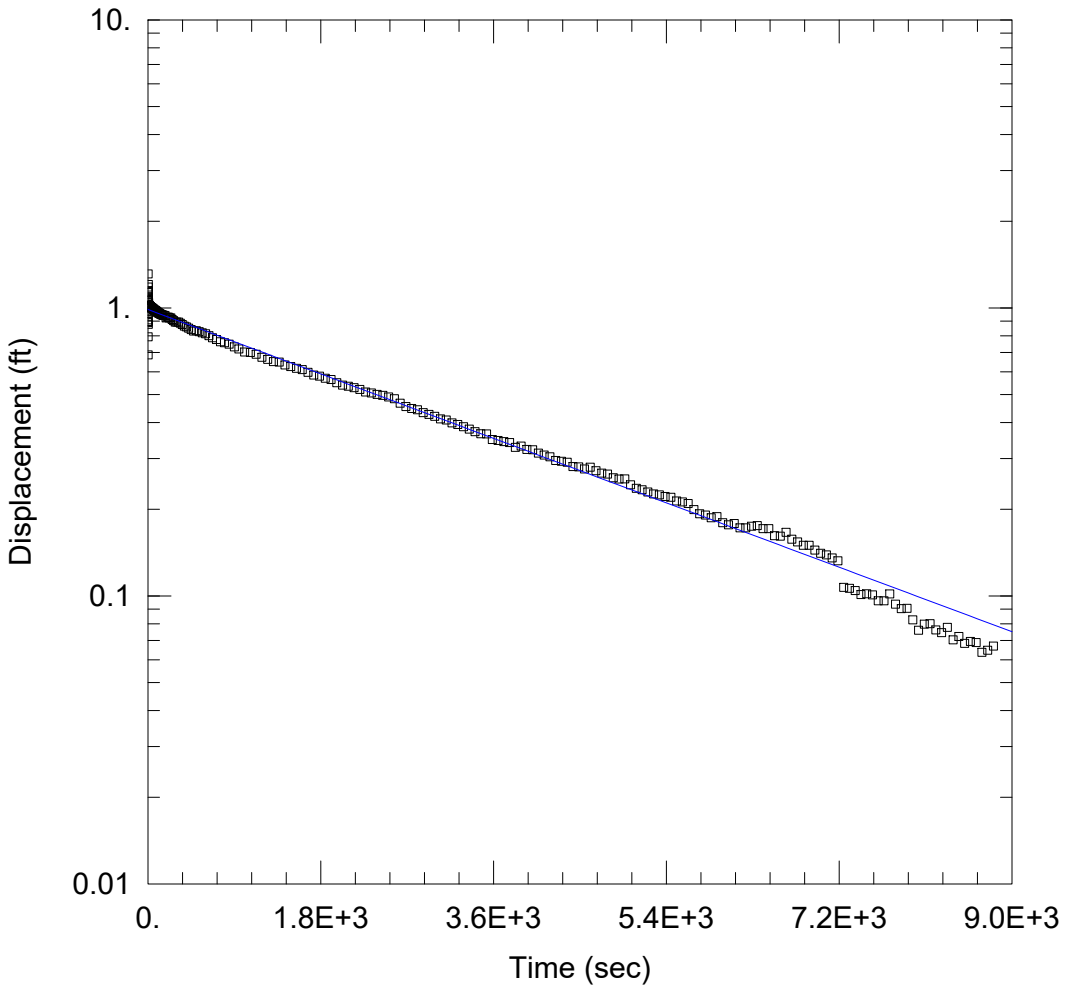
## WELL DATA (MW-04-2019)

Initial Displacement: 1. ft
Total Well Penetration Depth: 8.67 ft
Casing Radius: 0.085 ft
Static Water Column Height: 8.67 ft
Screen Length: 8.67 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.775E-5 cm/sec y0 = 0.1275 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW06-2019_FALLING_01.aqt
Date: 07/26/22 Time: 10:24:18

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-06-2019
Test Date: 7/10/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

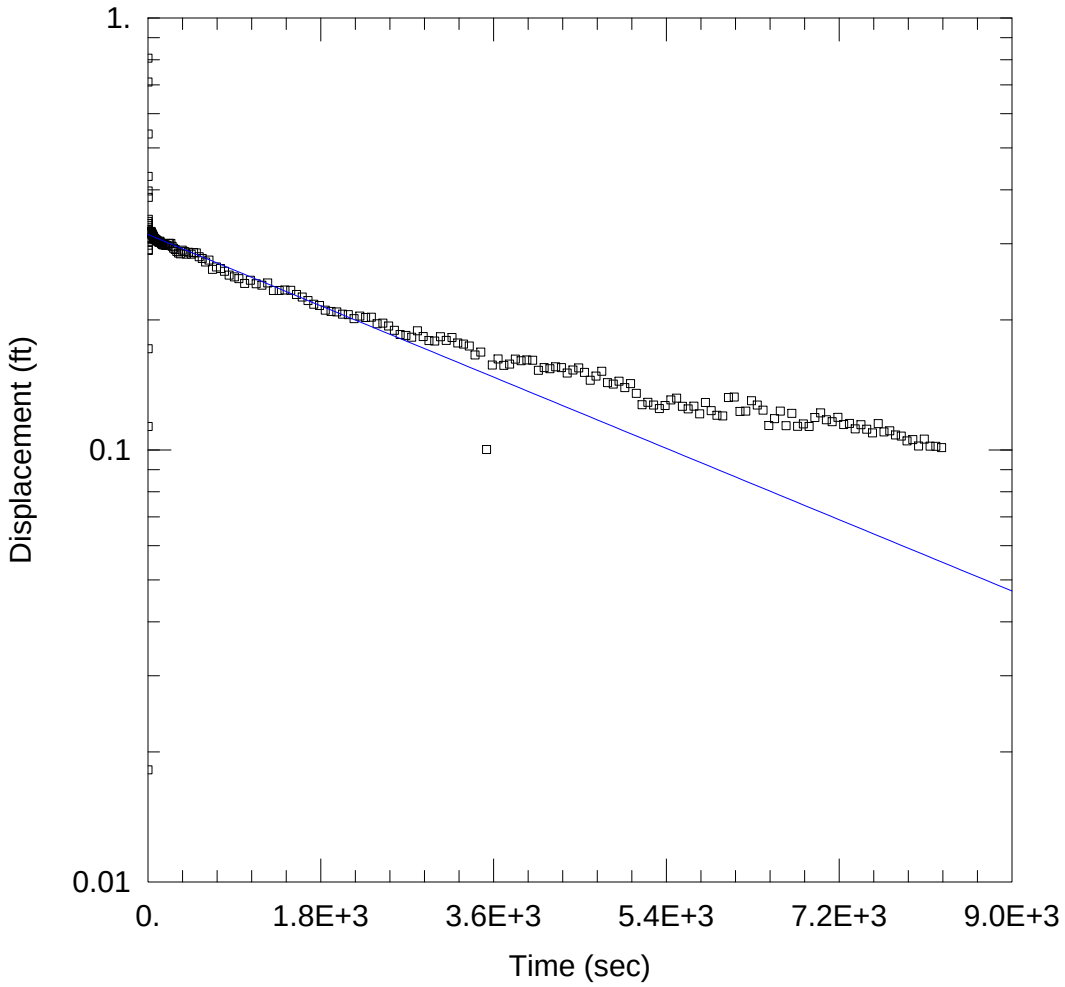
## WELL DATA (MW-06-2019)

Initial Displacement: 1. ft
Total Well Penetration Depth: 9.7 ft
Casing Radius: 0.085 ft
Static Water Column Height: 9.7 ft
Screen Length: 9.7 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.038E-5 cm/sec y0 = 0.9873 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW07-2019_FALLING_01.aqt
Date: 07/18/22 Time: 21:36:03

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-07-2019
Test Date: 7/10/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

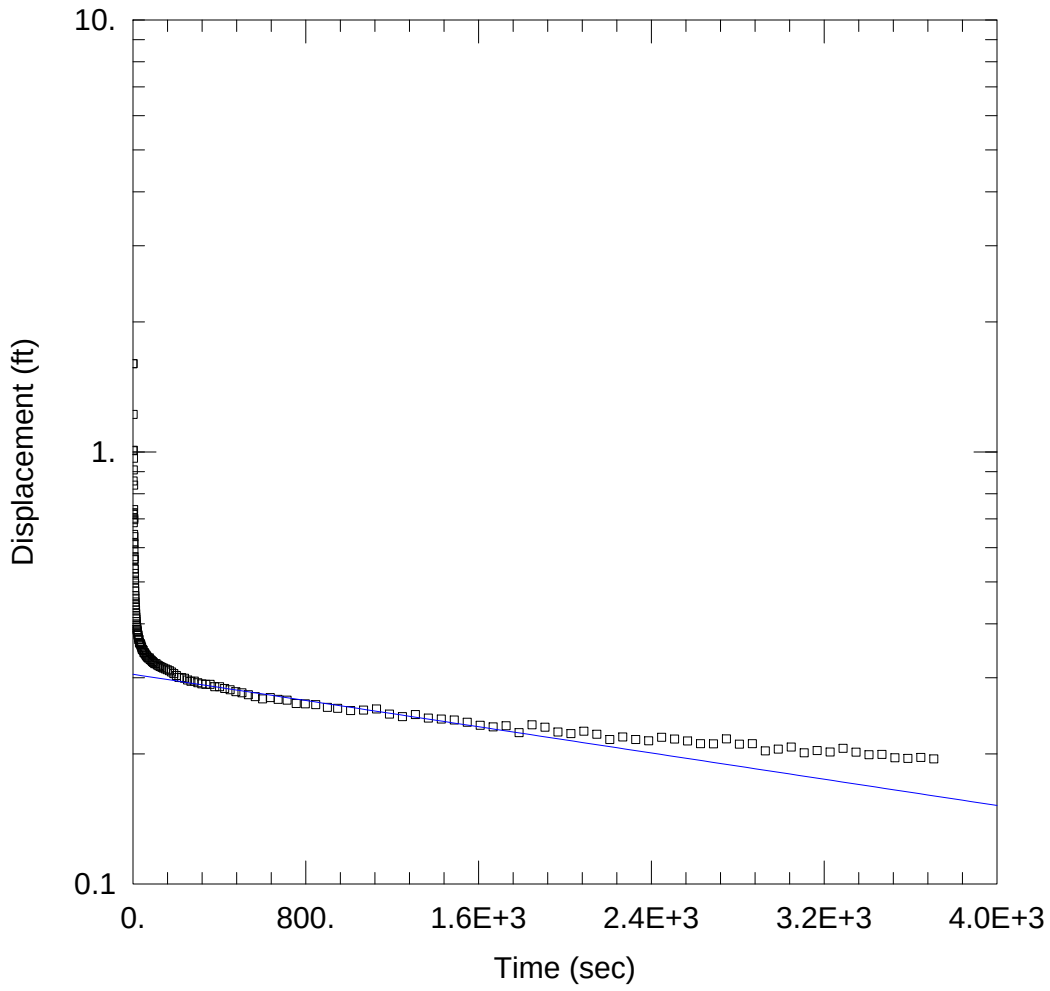
## WELL DATA (MW-07-2019)

Initial Displacement: 0.31 ft
Total Well Penetration Depth: 8.44 ft
Casing Radius: 0.085 ft
Static Water Column Height: 8.44 ft
Screen Length: 8.44 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 8.473E-6 cm/sec y0 = 0.3152 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW07-2019_RISING_02.aqt
Date: 07/18/22 Time: 21:37:08

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-07-2019
Test Date: 7/10/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

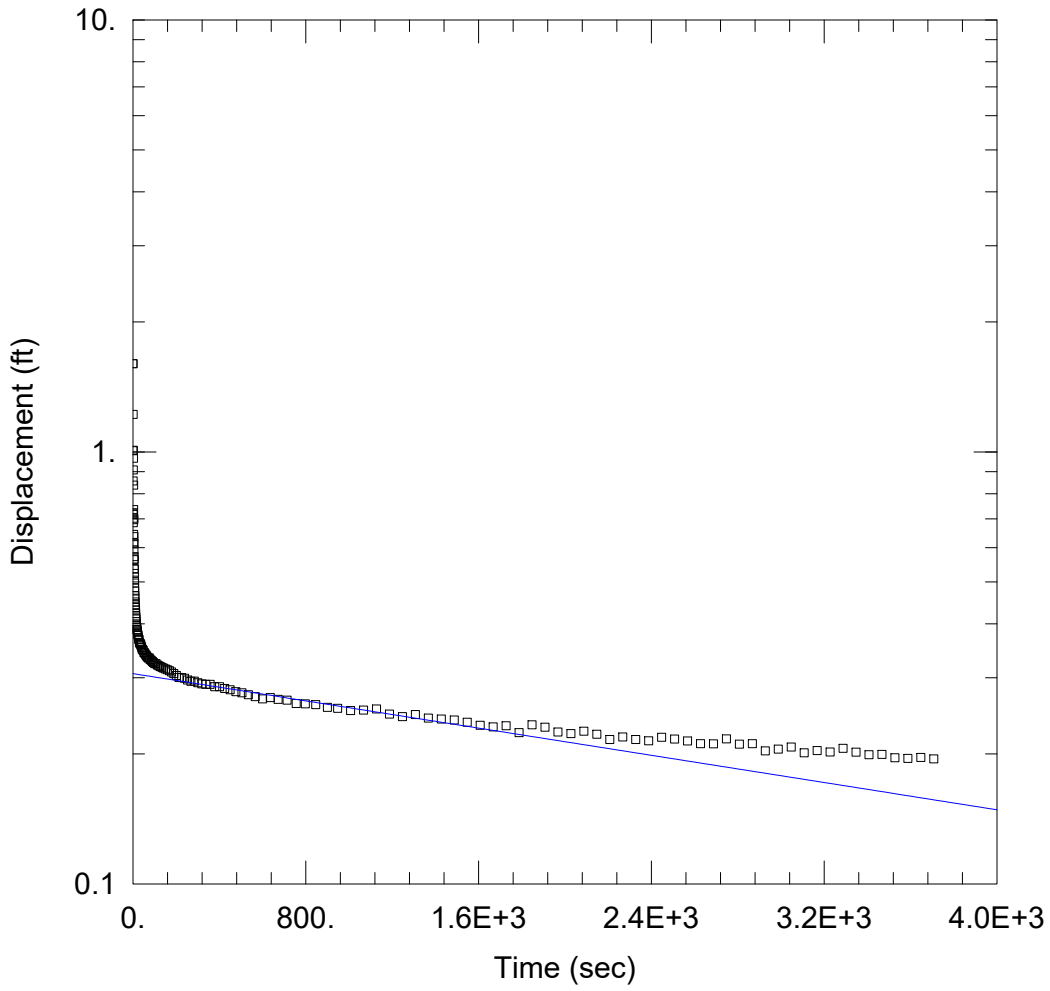
## WELL DATA (MW-07-2019)

Initial Displacement: 1.6 ft
Total Well Penetration Depth: 8.44 ft
Casing Radius: 0.085 ft
Static Water Column Height: 8.44 ft
Screen Length: 8.44 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 7.015E-6 cm/sec y0 = 0.3057 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW08-2019_FALLING_01.aqt
Date: 07/26/22 Time: 10:28:47

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-08-2019
Test Date: 7/10/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

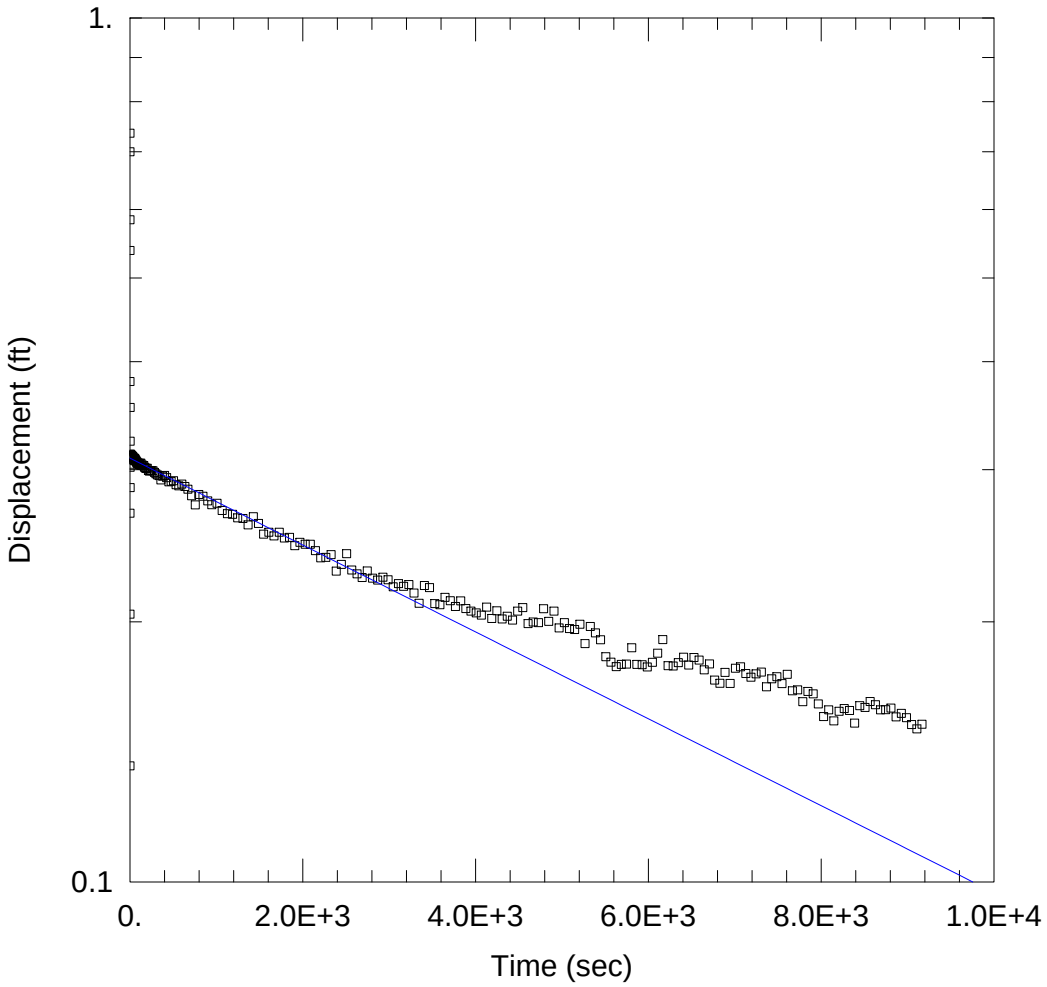
## WELL DATA (MW-08-2019)

Initial Displacement: 1.6 ft Static Water Column Height: 7.27 ft
Total Well Penetration Depth: 7.27 ft Screen Length: 7.27 ft
Casing Radius: 0.085 ft Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 8.121E-6 cm/sec y0 = 0.3067 ft




## WELL TEST ANALYSIS

Data Set: P:\...\MW09-2019_FALLING_01.aqt
Date: 07/18/22 Time: 21:37:25

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-09-2019
Test Date: 7/13/2020

## AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 0.01

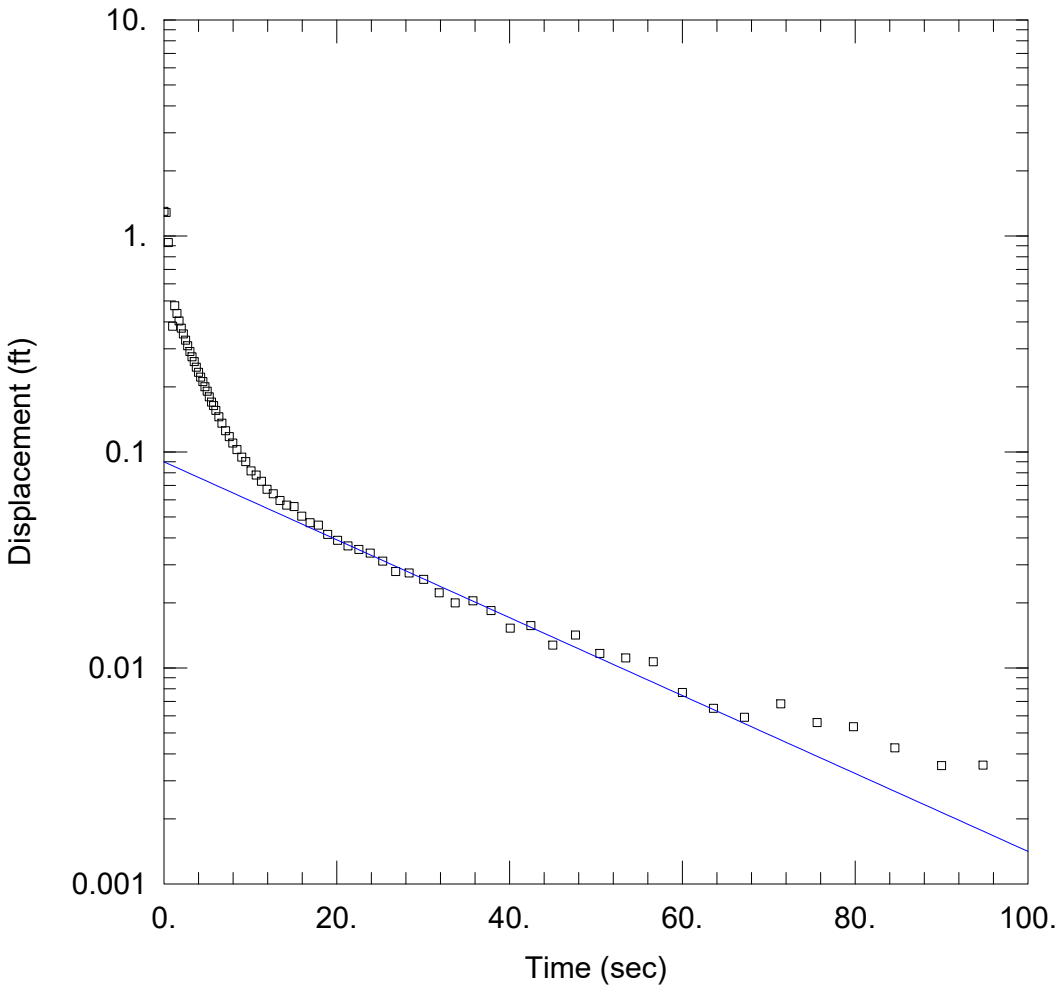
## WELL DATA (MW-09-2019)

Initial Displacement: 0.7 ft
Total Well Penetration Depth: 7.87 ft
Casing Radius: 0.085 ft
Static Water Column Height: 7.87 ft
Screen Length: 7.87 ft
Well Radius: 0.33 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 4.89E-6 cm/sec y0 = 0.3093 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-01-2019_FALLING_01.aqt
Date: 07/26/22 Time: 10:29:58

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-01-2019
Test Date: 7/9/2020

## AQUIFER DATA

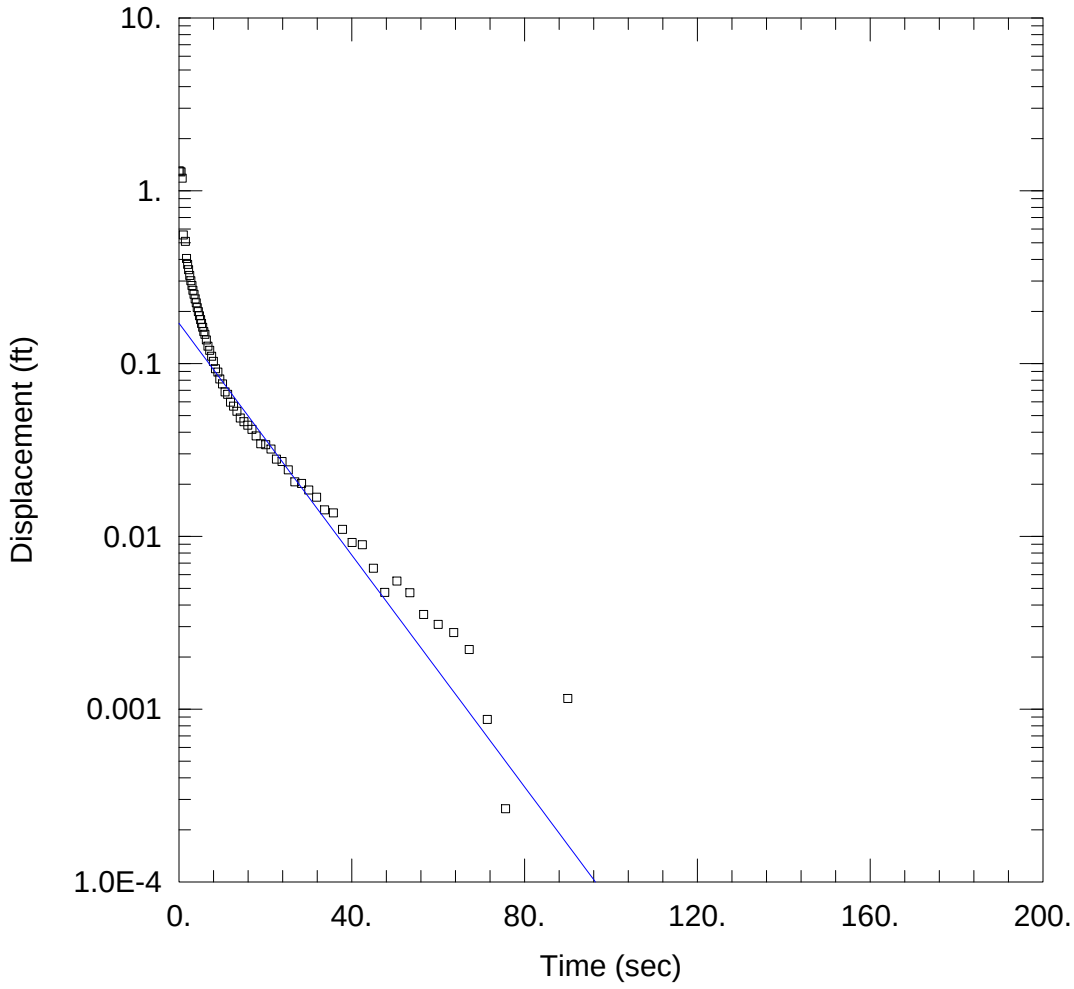
Saturated Thickness: 50. ft Anisotropy Ratio (Kz/Kr): 0.01

## WELL DATA (P-01-2019)

Initial Displacement: 1.3 ft Static Water Column Height: 10.95 ft
Total Well Penetration Depth: 10.29 ft Screen Length: 10. ft
Casing Radius: 0.085 ft Well Radius: 0.098 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
K = 0.001935 cm/sec y0 = 0.08994 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-01-2019_FALLING_03.aqt
Date: 07/18/22 Time: 21:39:06

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-01-2019
Test Date: 7/9/2020

## AQUIFER DATA

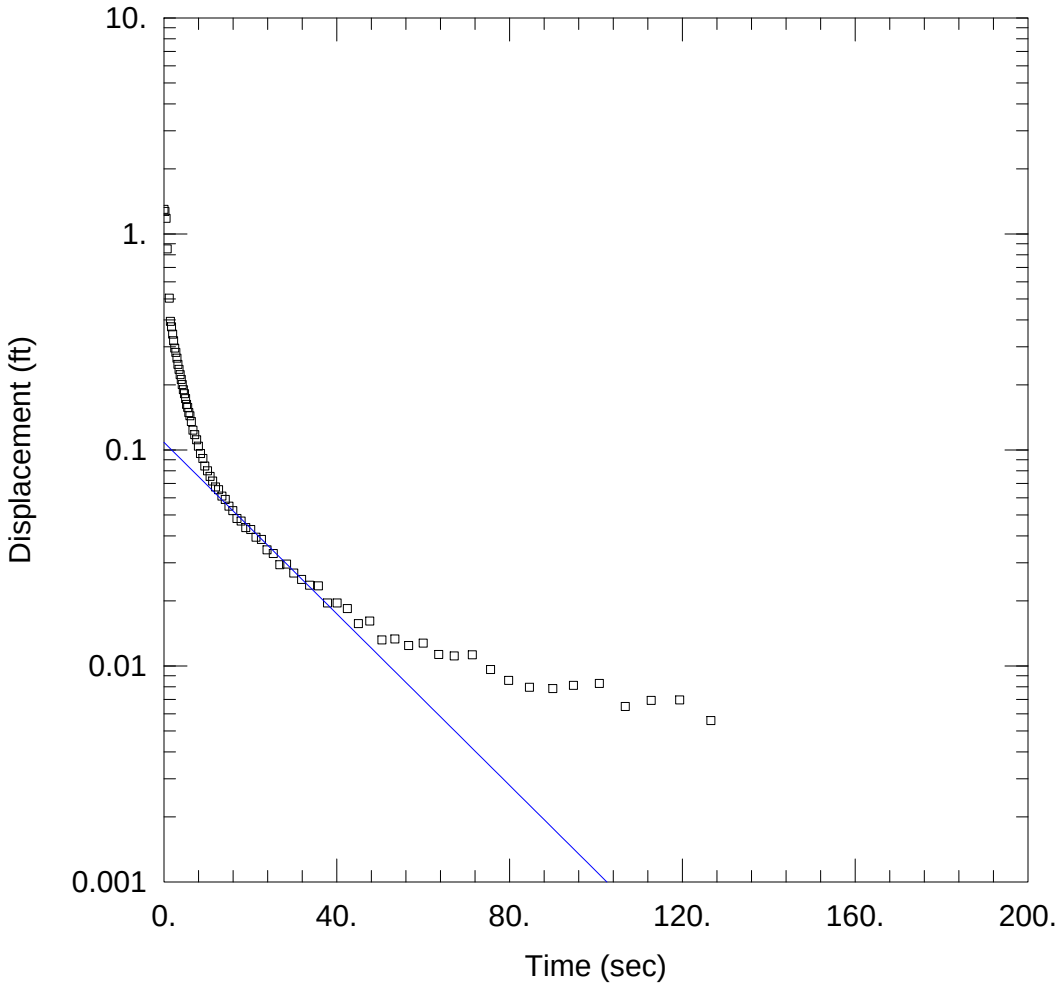
Saturated Thickness: 50. ft Anisotropy Ratio (Kz/Kr): 0.01

## WELL DATA (P-01-2019)

Initial Displacement: 1.3 ft Static Water Column Height: 11.29 ft
Total Well Penetration Depth: 11.29 ft Screen Length: 10. ft
Casing Radius: 0.085 ft Well Radius: 0.25 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
K = 0.002918 cm/sec y0 = 0.171 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-01-2019_FALLING_05.aqt
Date: 07/18/22 Time: 21:39:15

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-01-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 50. ft Anisotropy Ratio (Kz/Kr): 0.01

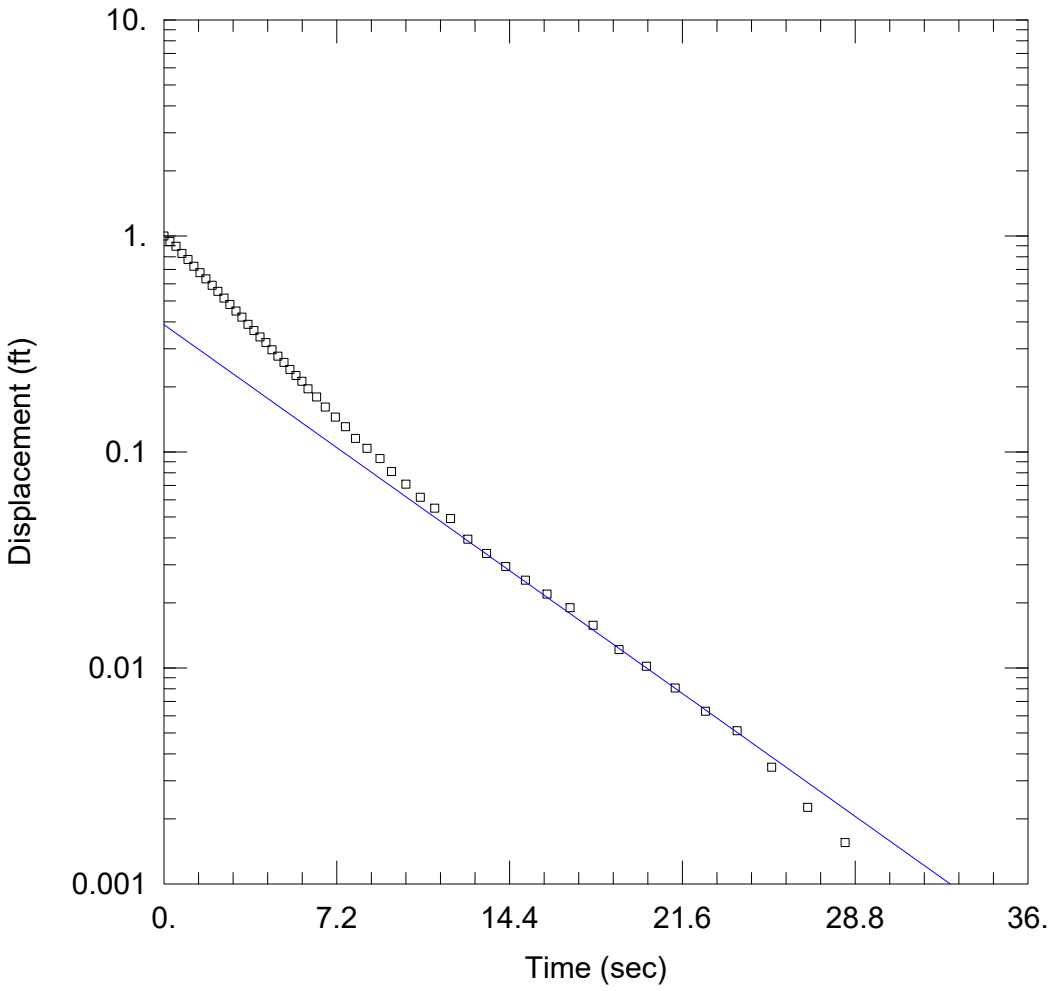
## WELL DATA (P-01-2019)

Initial Displacement: 1.3 ft Static Water Column Height: 11.29 ft
Total Well Penetration Depth: 11.29 ft Screen Length: 10. ft
Casing Radius: 0.085 ft Well Radius: 0.098 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.002155 cm/sec y0 = 0.1084 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-01-2019_RISING_02.aqt
Date: 07/26/22 Time: 10:31:25

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-01-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 50. ft Anisotropy Ratio (Kz/Kr): 0.01

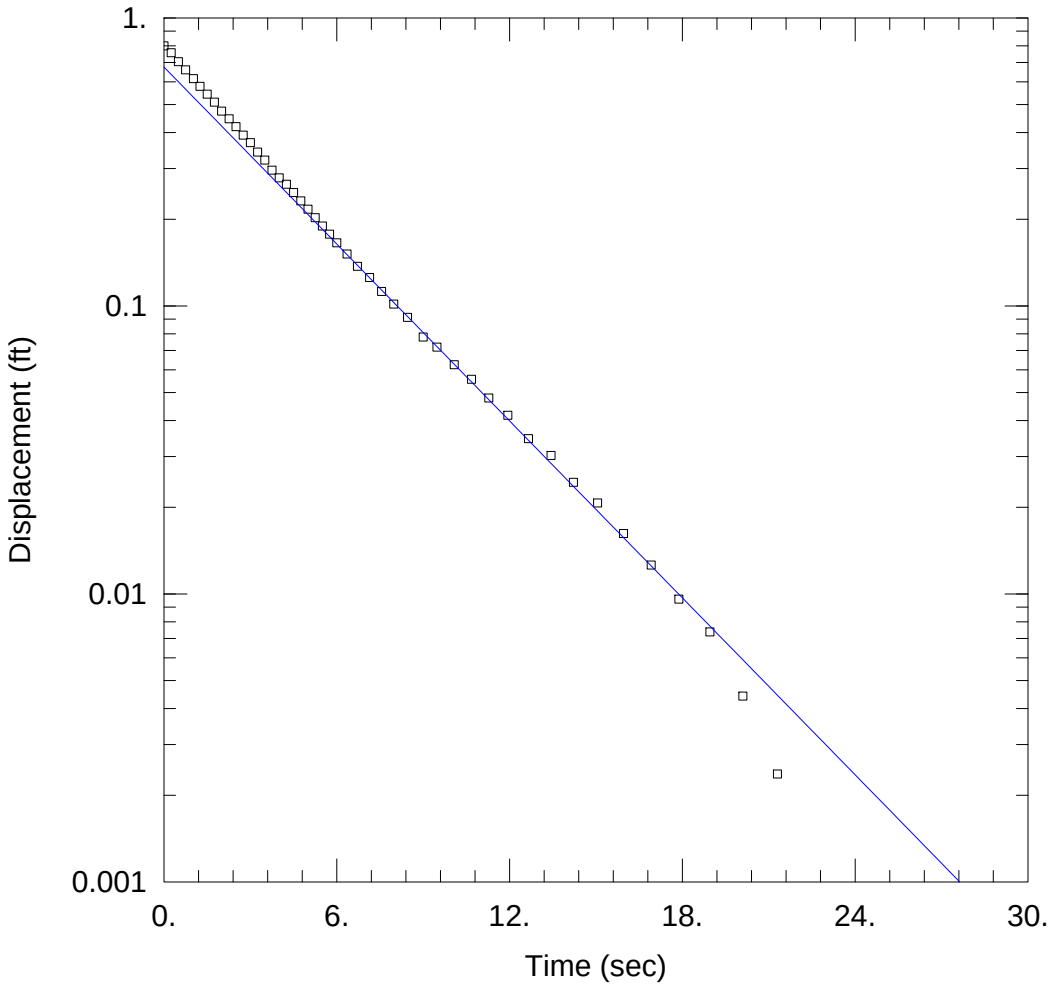
## WELL DATA (P-01-2019)

Initial Displacement: 1. ft
Total Well Penetration Depth: 11.29 ft
Casing Radius: 0.085 ft
Static Water Column Height: 11.29 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.006874 cm/sec y0 = 0.3881 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-01-2019_RISING_06.aqt
Date: 07/25/22 Time: 16:29:12

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-01-2019
Test Date: 7/9/2020

## AQUIFER DATA

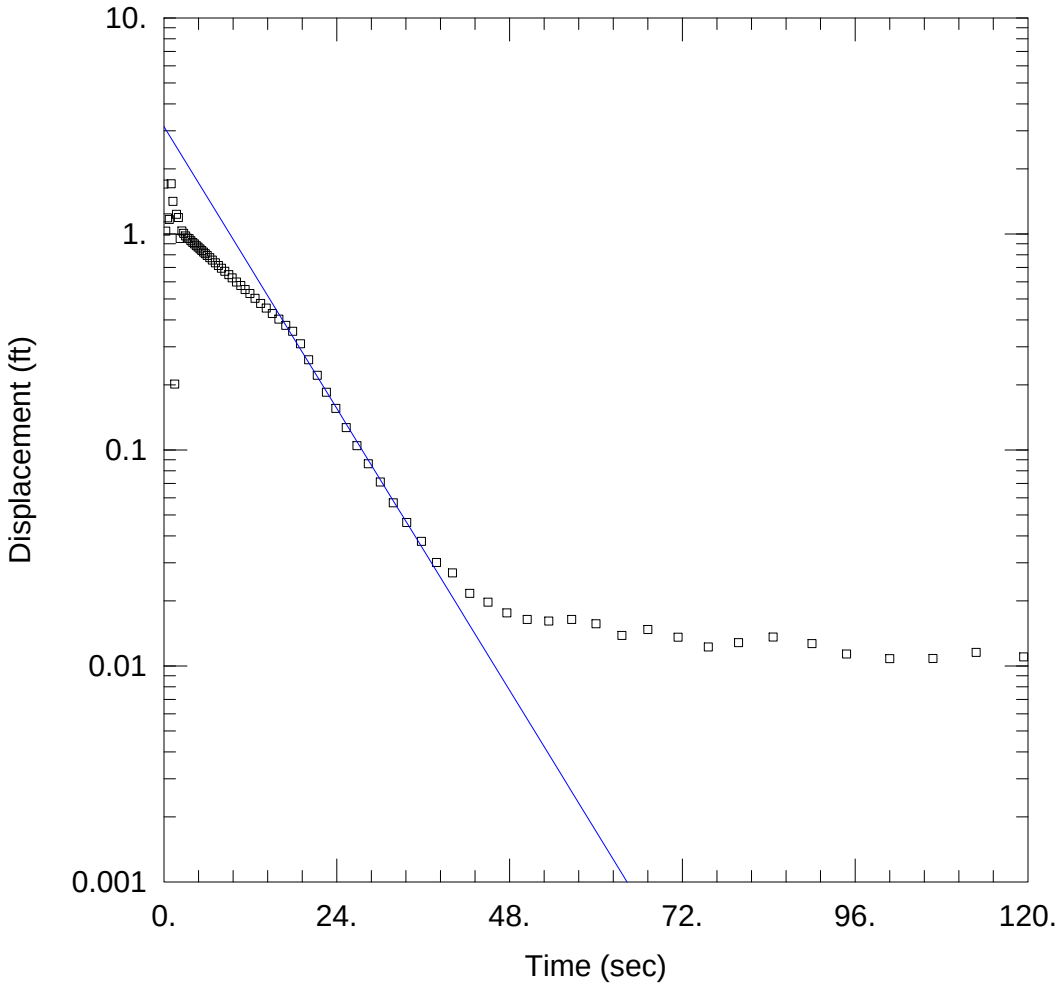
Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 0.01

## WELL DATA (P-01-2019)

Initial Displacement: 0.8 ft
Static Water Column Height: 11.29 ft
Total Well Penetration Depth: 11.29 ft
Screen Length: 10. ft
Casing Radius: 0.085 ft
Well Radius: 0.098 ft

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.01111 cm/sec
y0 = 0.6751 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-05-2019_FALLING_01.aqt
Date: 07/18/22 Time: 21:41:36

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-05-2019
Test Date: 7/9/2020

## AQUIFER DATA

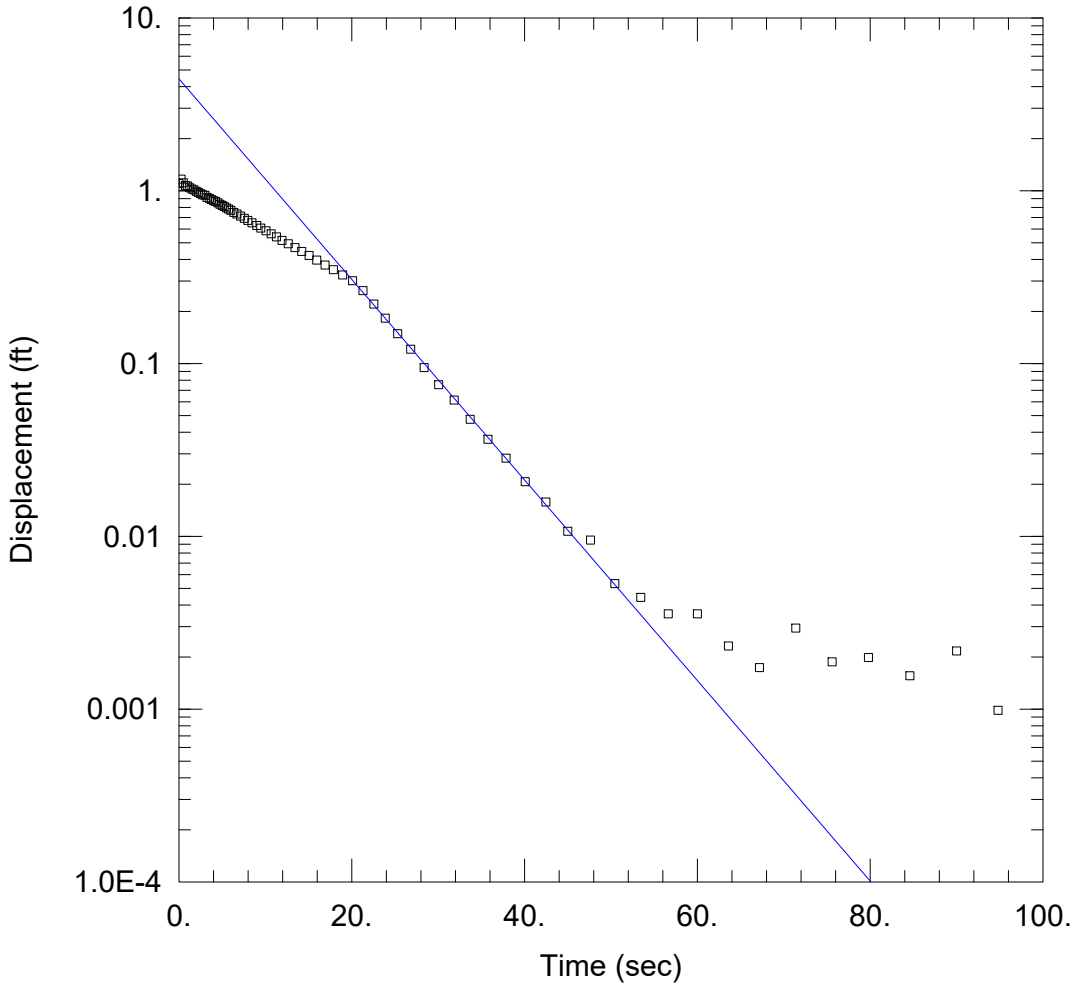
Saturated Thickness: 50. ft Anisotropy Ratio (Kz/Kr): 0.01

## WELL DATA (P-05-2019)

Initial Displacement: 1.7 ft Static Water Column Height: 13.79 ft
Total Well Penetration Depth: 12.64 ft Screen Length: 10. ft
Casing Radius: 0.085 ft Well Radius: 0.098 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
K = 0.005982 cm/sec y0 = 3.14 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-05-2019_FALLING_03.aqt
Date: 07/26/22 Time: 10:32:27

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-05-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 50. ft Anisotropy Ratio (Kz/Kr): 0.01

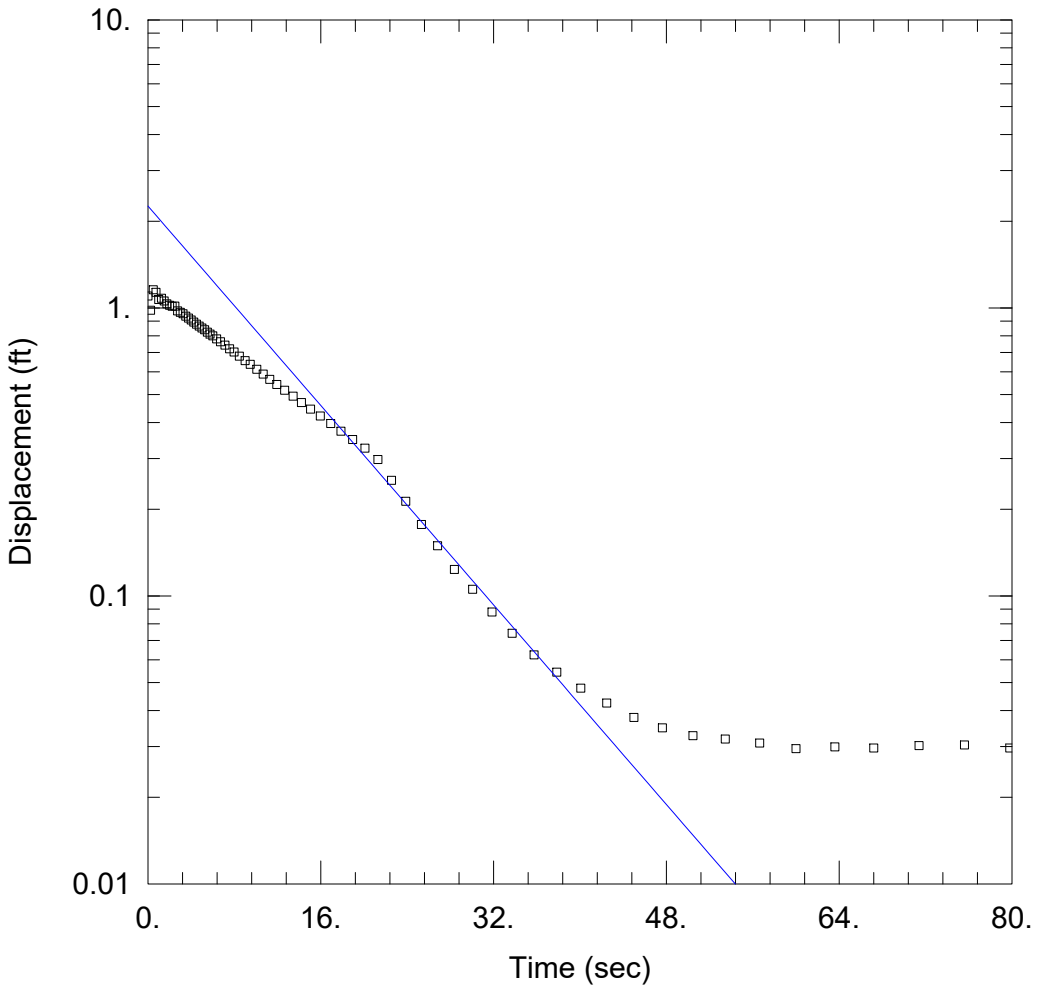
## WELL DATA (P-05-2019)

Initial Displacement: 1.1 ft
Total Well Penetration Depth: 15.08 ft
Casing Radius: 0.085 ft
Static Water Column Height: 13.79 ft
Screen Length: 11.29 ft
Well Radius: 0.098 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.005851 cm/sec y0 = 4.436 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-05-2019_FALLING_05.aqt
Date: 07/26/22 Time: 10:33:09

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-1
Test Date: 7/9/2020

## AQUIFER DATA

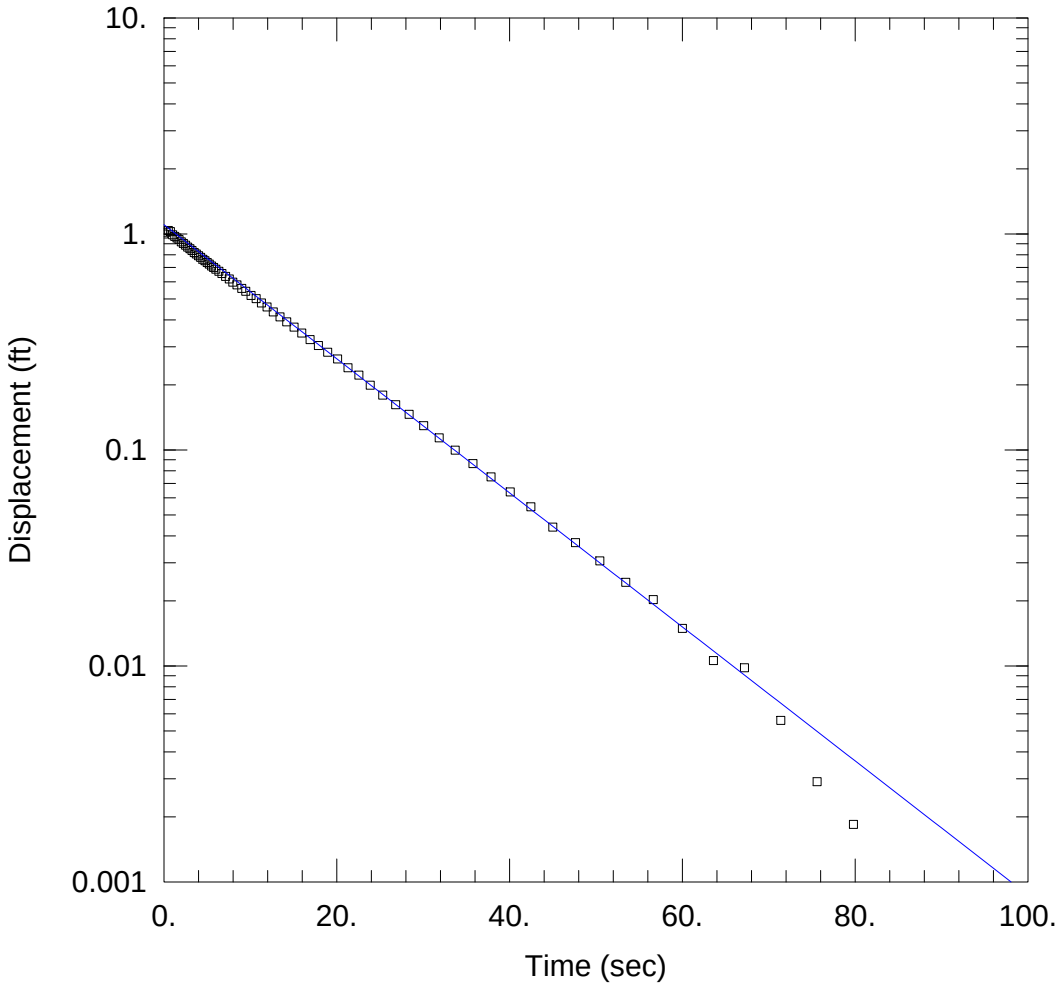
Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 0.01

## WELL DATA (P-05-2019)

Initial Displacement: 1.1 ft
Total Well Penetration Depth: 15.08 ft
Casing Radius: 0.085 ft
Static Water Column Height: 13.79 ft
Screen Length: 11.29 ft
Well Radius: 0.098 ft

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.004364 cm/sec
y0 = 2.258 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-05-2019_RISING_02.aqt
Date: 07/18/22 Time: 21:42:51

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-05-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 50. ft Anisotropy Ratio (Kz/Kr): 0.01

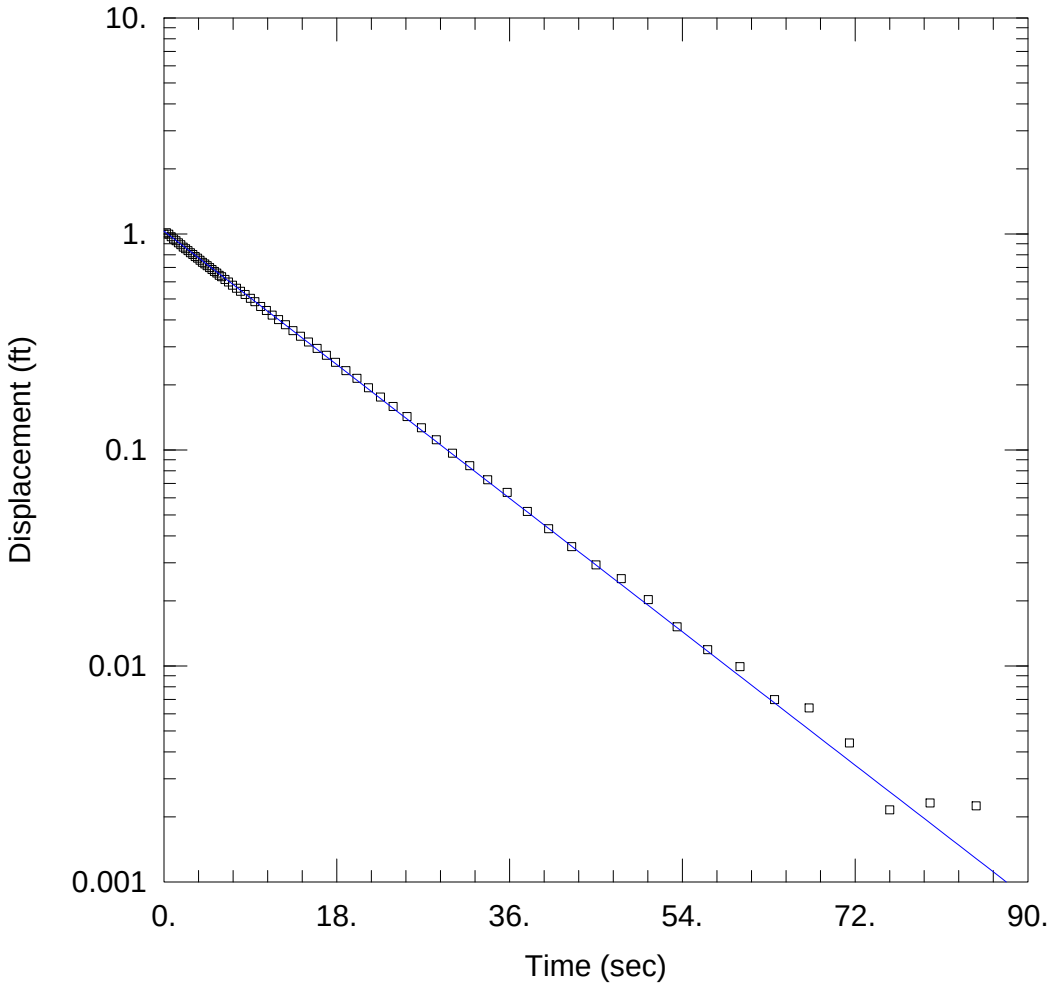
## WELL DATA (P-05-2019)

Initial Displacement: 1. ft
Total Well Penetration Depth: 13.79 ft
Casing Radius: 0.085 ft
Static Water Column Height: 14.33 ft
Screen Length: 10. ft
Well Radius: 0.098 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.00345 cm/sec y0 = 1.103 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-05-2019_RISING_04.aqt
Date: 07/18/22 Time: 21:43:01

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-05-2022
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 50. ft Anisotropy Ratio (Kz/Kr): 0.1

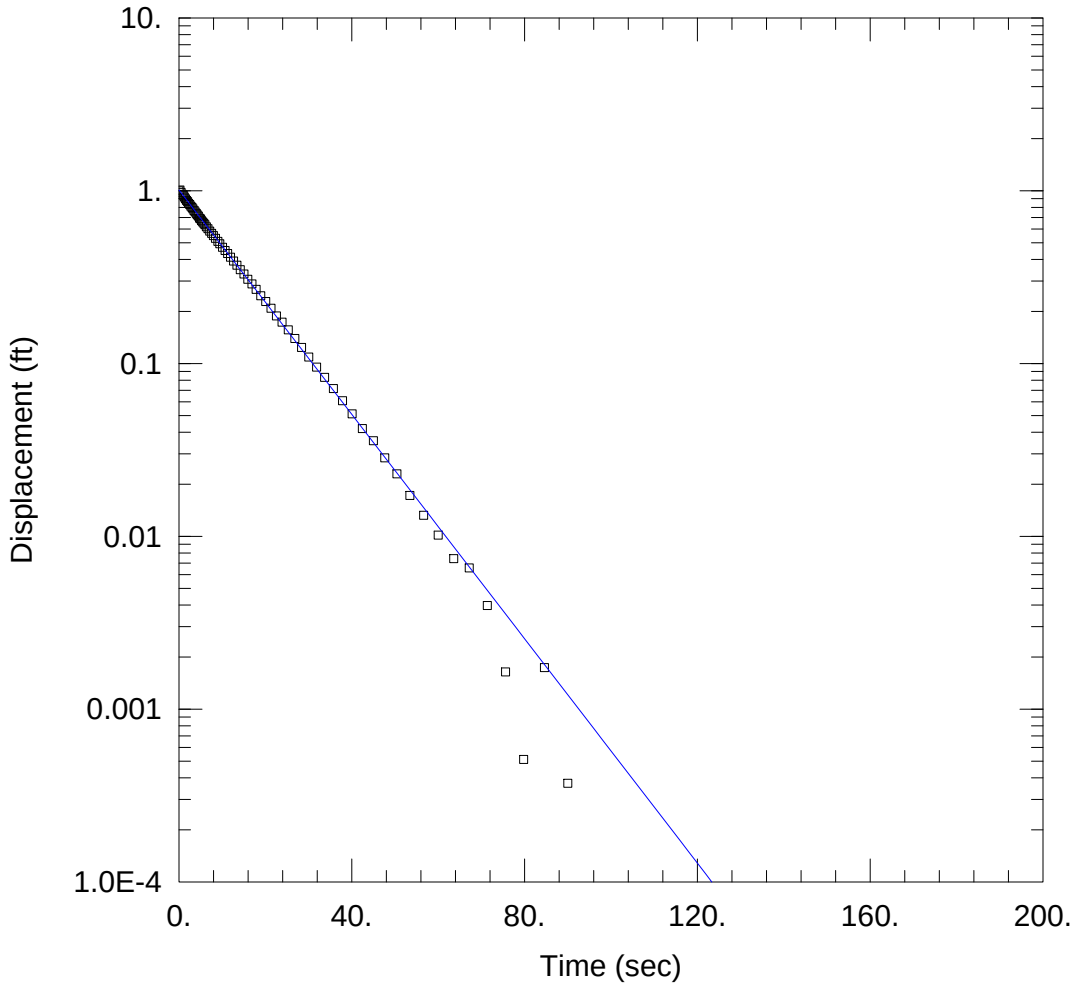
## WELL DATA (P-05-2019)

Initial Displacement: 1. ft
Total Well Penetration Depth: 13.79 ft
Casing Radius: 0.085 ft
Static Water Column Height: 13.79 ft
Screen Length: 10. ft
Well Radius: 0.098 ft

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.002912 cm/sec
y0 = 1.03 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-05-2019_RISING_06.aqt
Date: 07/18/22 Time: 21:43:08

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-05-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 50. ft Anisotropy Ratio (Kz/Kr): 0.01

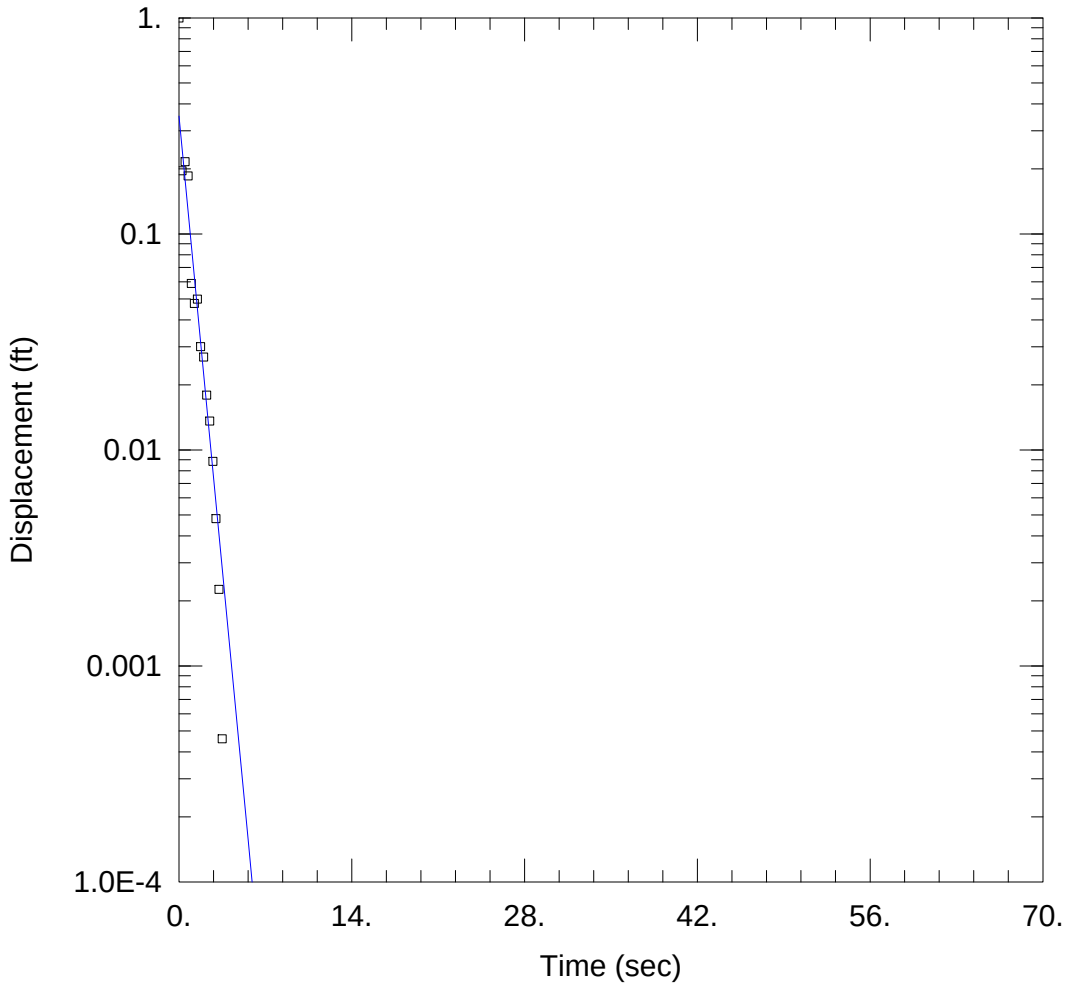
## WELL DATA (P-05-2019)

Initial Displacement: 1. ft
Total Well Penetration Depth: 13.79 ft
Casing Radius: 0.085 ft
Static Water Column Height: 13.79 ft
Screen Length: 10. ft
Well Radius: 0.098 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.003608 cm/sec y0 = 1.009 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-08-2019_FALLING_01.aqt
Date: 07/18/22 Time: 21:44:40

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-1
Test Date: 7/9/2020

## AQUIFER DATA

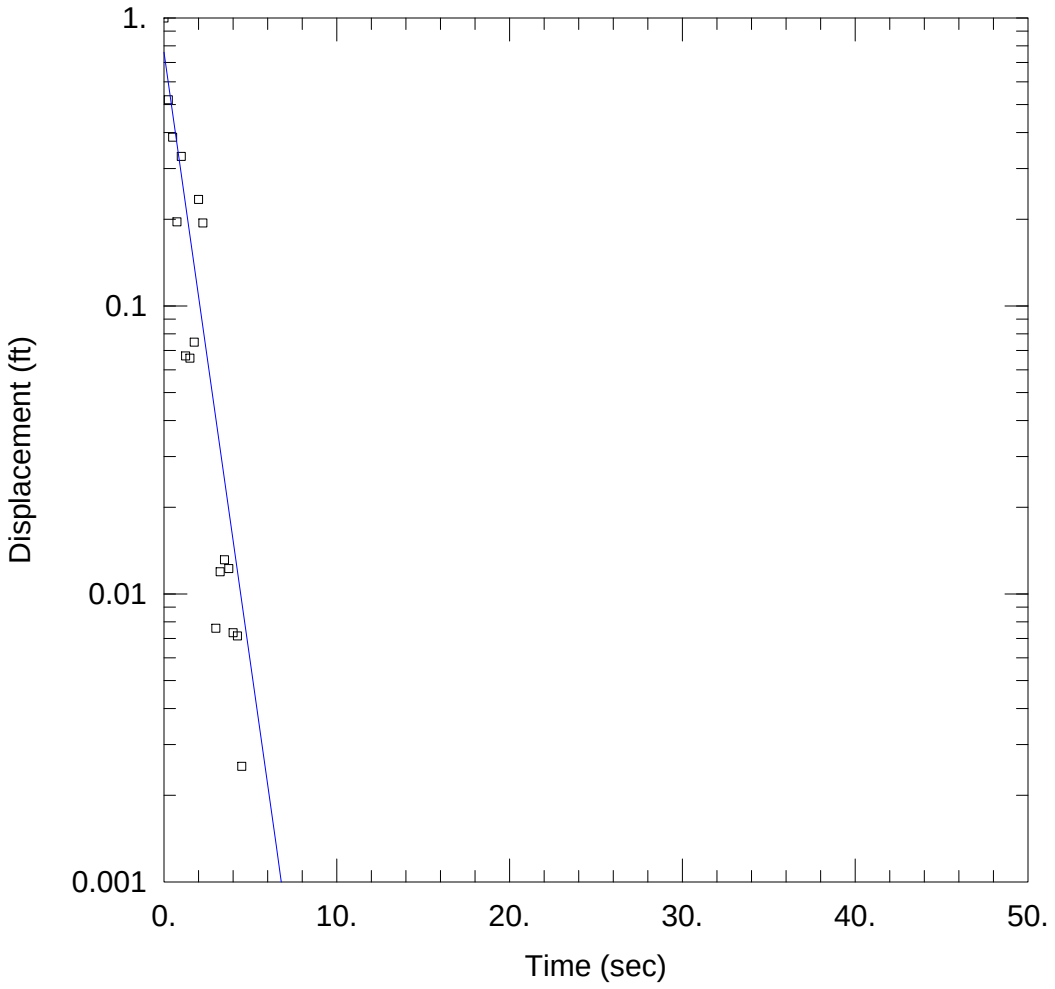
Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 0.01

## WELL DATA (P-08-2019)

Initial Displacement: 1. ft
Static Water Column Height: 12.12 ft
Total Well Penetration Depth: 12.12 ft
Screen Length: 10. ft
Casing Radius: 0.085 ft
Well Radius: 0.25 ft

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.05249 cm/sec
y0 = 0.3512 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-08-2019_FALLING_03.aqt
Date: 07/18/22 Time: 21:45:46

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: MW-1
Test Date: 7/9/2020

## AQUIFER DATA

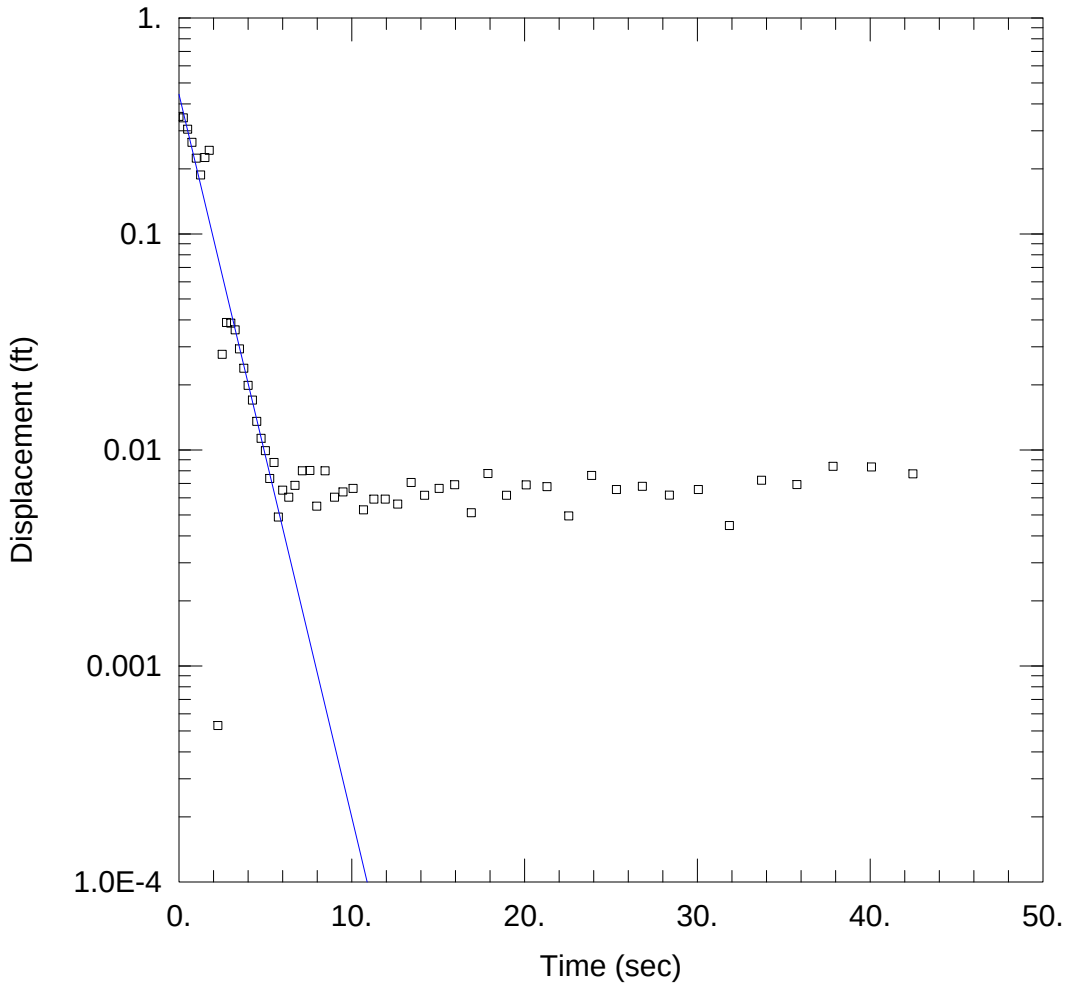
Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 0.01

## WELL DATA (P-08-2019)

Initial Displacement: 1. ft
Static Water Column Height: 12.12 ft
Total Well Penetration Depth: 12.12 ft
Screen Length: 10. ft
Casing Radius: 0.085 ft
Well Radius: 0.098 ft

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0464 cm/sec
y0 = 0.7598 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-08-2019_FALLING_05.aqt
Date: 07/18/22 Time: 21:45:54

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-08-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 50. ft Anisotropy Ratio (Kz/Kr): 0.01

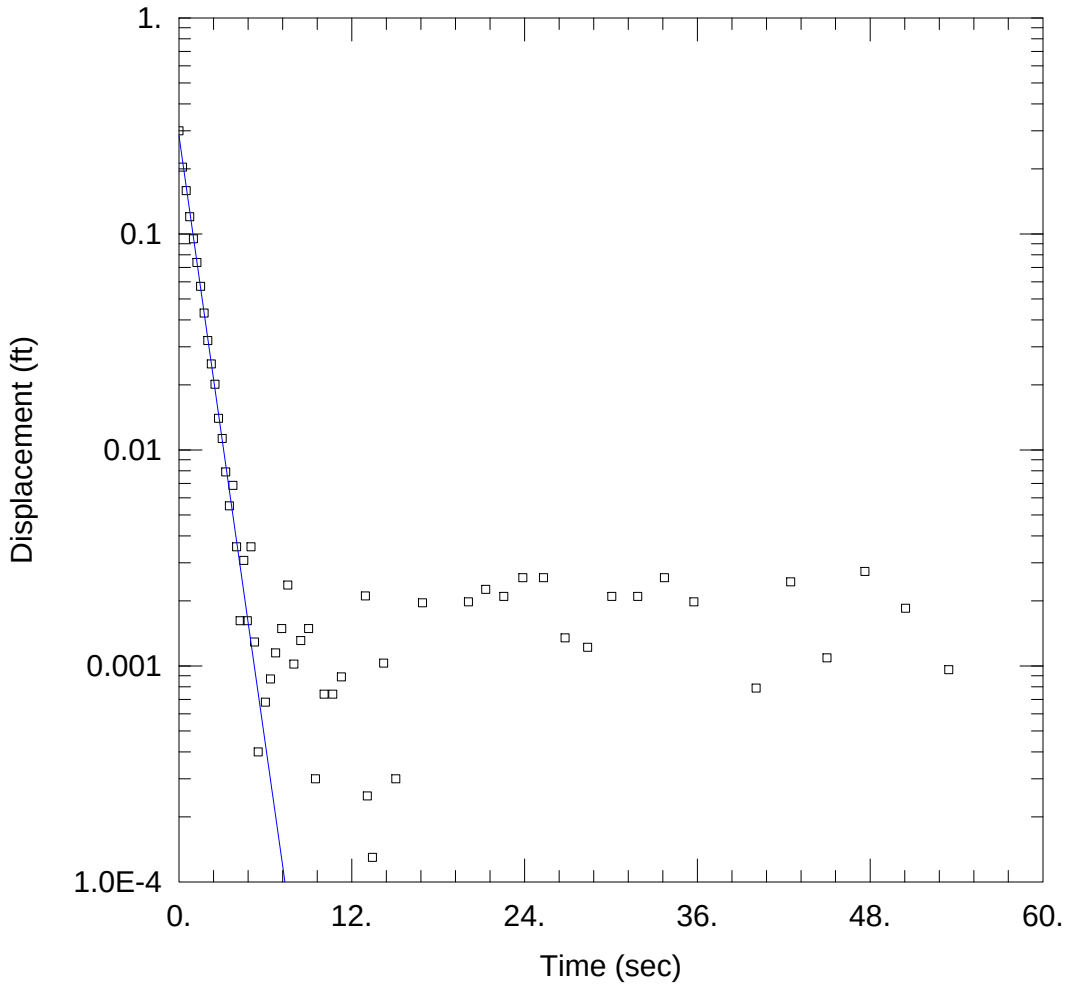
## WELL DATA (P-08-2019)

Initial Displacement: 0.35 ft
Total Well Penetration Depth: 12.12 ft
Casing Radius: 0.085 ft
Static Water Column Height: 12.12 ft
Screen Length: 10. ft
Well Radius: 0.098 ft

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.03665 cm/sec
y0 = 0.4431 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-08-2019_RISING_02.aqt
Date: 07/18/22 Time: 21:46:04

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-08-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 50. ft Anisotropy Ratio (Kz/Kr): 0.01

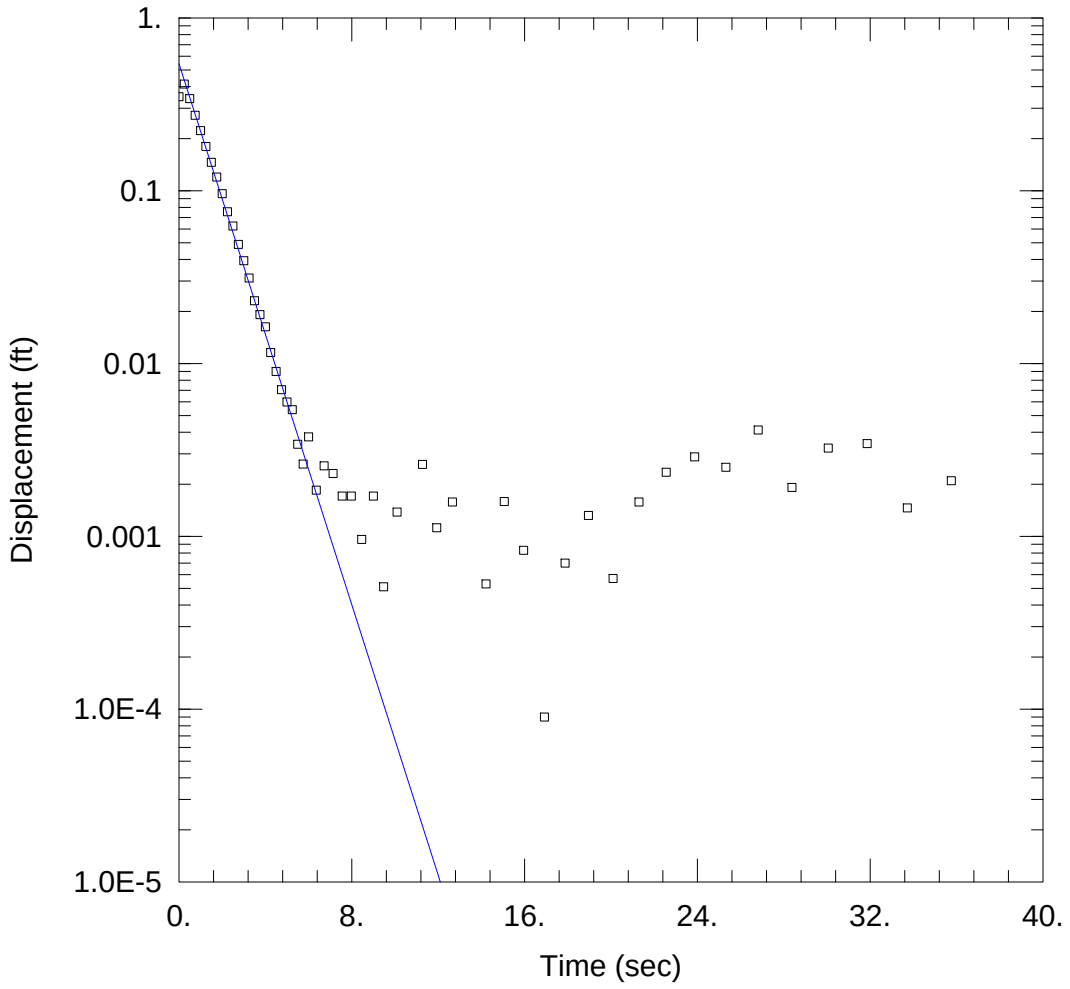
## WELL DATA (P-08-2019)

Initial Displacement: 0.3 ft
Total Well Penetration Depth: 12.12 ft
Casing Radius: 0.085 ft
Static Water Column Height: 12.12 ft
Screen Length: 10. ft
Well Radius: 0.098 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.05139 cm/sec y0 = 0.2848 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-08-2019_RISING_04.aqt
Date: 07/18/22 Time: 21:47:01

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-08-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 50. ft Anisotropy Ratio (Kz/Kr): 0.01

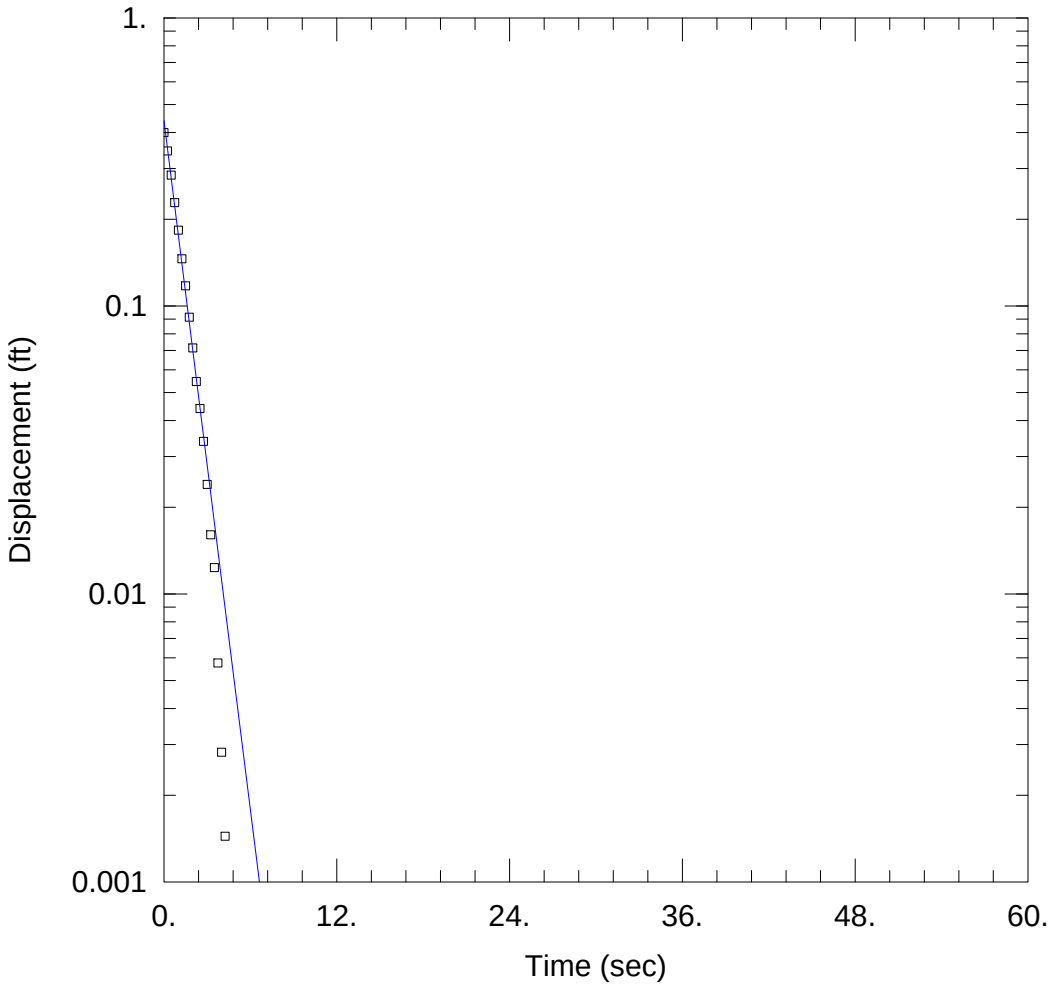
## WELL DATA (P-08-2019)

Initial Displacement: 0.35 ft Static Water Column Height: 12.12 ft
Total Well Penetration Depth: 12.12 ft Screen Length: 10. ft
Casing Radius: 0.085 ft Well Radius: 0.098 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.04284 cm/sec y0 = 0.5427 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-08-2019_RISING_06.aqt
Date: 07/18/22 Time: 21:47:11

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-08-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 50. ft Anisotropy Ratio (Kz/Kr): 0.01

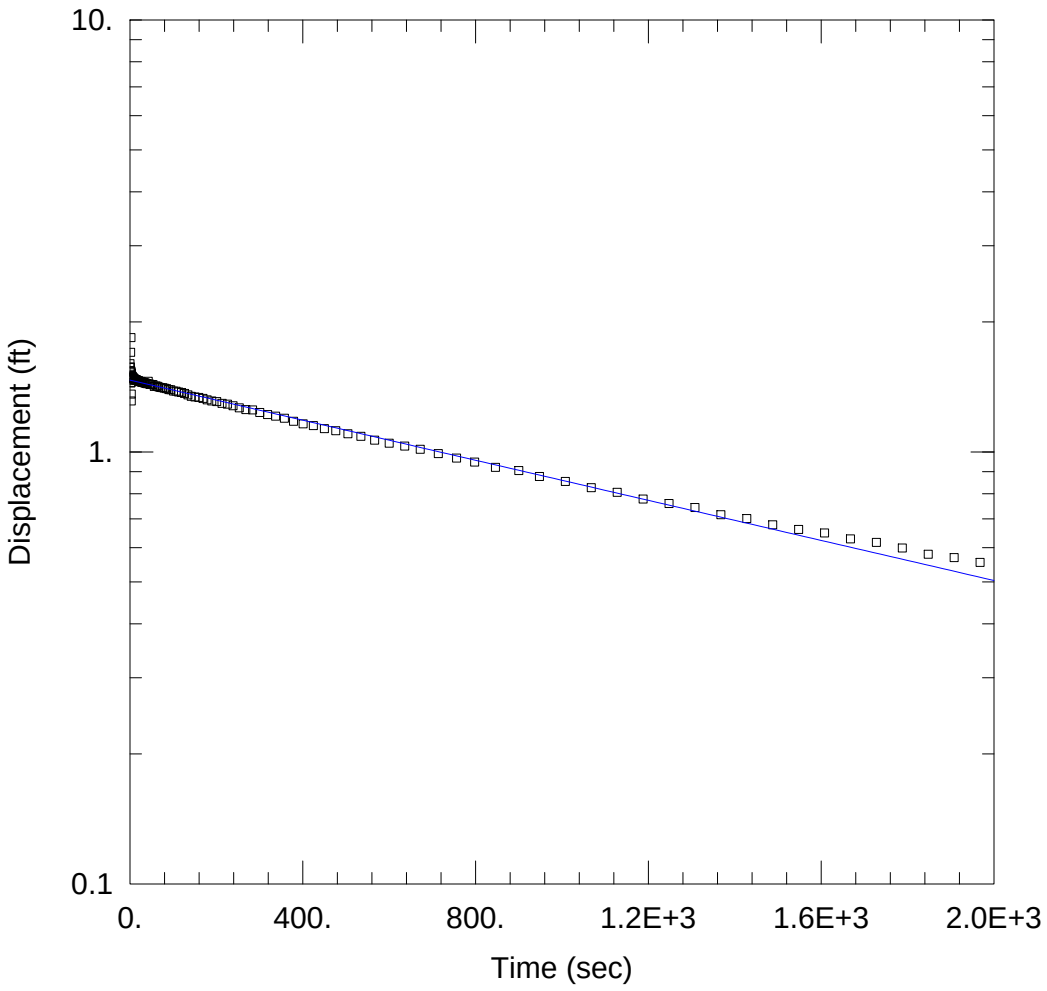
## WELL DATA (P-08-2019)

Initial Displacement: 0.4 ft Static Water Column Height: 12.12 ft
Total Well Penetration Depth: 12.12 ft Screen Length: 10. ft
Casing Radius: 0.085 ft Well Radius: 0.098 ft

## SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.04365 cm/sec y0 = 0.4394 ft




## WELL TEST ANALYSIS

Data Set: P:\...\P-09A-2019_FALLING_01.aqt
Date: 07/18/22 Time: 21:47:20

## PROJECT INFORMATION

Company: Geosyntec Consultants
Client: We Energies
Project: CHE8094OQ
Location: Milwaukee, WI
Test Well: P-09A-2019
Test Date: 7/9/2020

## AQUIFER DATA

Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 0.01

## WELL DATA (P-09A-2019)

Initial Displacement: 1.6 ft
Static Water Column Height: 20.51 ft
Total Well Penetration Depth: 20.83 ft
Screen Length: 10. ft
Casing Radius: 0.085 ft
Well Radius: 0.25 ft

## SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 2.175E-5 cm/sec
y0 = 1.466 ft

# APPENDIX 3

# Groundwater Monitoring Well Construction Documentation

Boring Logs (WDNR Form 4400-122)
Monitoring Well Construction Forms (WDNR Form 4400-113A)
Monitoring Well Development Forms (WDNR Form 4400-113B)
Screen Interval Grain Size Distribution Testing Data
Well Installation-Generated Soil Disposal Documentation

State of Wisconsin
Departament 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**<br>Metro North Service Center | | | **License/Permit/Monitoring No.** | **Boring Number**<br>P-01-22 |
| **Boring Drilled By** (First and Last Name, Firm)<br>Todd Schmalfelt, Cacade Drilling LP | | | **Drilling Start Date**<br>03/28/2022 | **Drilling End Date**<br>03/28/2022 | **Drilling Method**<br>Sonic |
| **WI Unique Well No.** | **DNR Well ID No.** | **Well Name**<br>P-01-22 | **Final Static WL**<br>Feet MSL | **Surface Elevation**<br>696.12 Feet MSL | **Borehole Diameter**<br>6 inches |
| **Local Grid Origin** ☐ or **Boring Location** ☒<br>State Plane **393333.111** N, **2515407.499** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | | | **Lat** --<br>**Long** -- | **Local Grid Location**<br>☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W | |
| **Facility ID**<br>241311510 | **County**<br>Milwaukee | | **County Code**<br>41 | **Civil Town/City/Village**<br>Milwaukee | |

| SAMPLE | | | | | | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | SOIL PROPERTIES | | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type | Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | | | | | | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | |
| 1/CB | CB | | 42/60 | | 0 | (0') Brown, WELL-GRADED SAND (SW); moist, few to little gravel (FILL). | FILL | | | 0.4 | | | | | | | |
| 2/CB | CB | | 32/60 | | 5 | (5') Brown, CLAY (CL); moist, medium plasticity, cohesive, trace sand, massive, trace gray mottles. | CL | | | 0.0 | | | | | | | |
| 3/CB | CB | | 60/60 | | 10 | (12') Brown, SANDY CLAY with GRAVEL (CL); moist, few rounded gravel and trace gravel >2 inch diameter, massive. | CL | | | | | | | | | | |
| | | | | | | | SC | | | | | | | | | | |
| | | | | | | (13') Brown, CLAYEY SAND (SC); moist to wet, medium sand with few gravel, massive. | CL | | | | | | | | | | |
| 4/CB | CB | | 54/60 | | 15 | (13.5') Brown, LEAN CLAY (CL); moist, medium plasticity, cohesive, little sand with few gravel (trace >1 inch diameter), massive. | | | | | | | | | | | |
| | | | | | | (16.6') Brown to grayish brown, SILT and CLAY (ML-CL); moist to dry, low to medium plasticity, cohesive, interbedded/laminated. | ML-CL | | | 0.0 | | | | | | | |
| | | | | | 20 | | | | | | | | | | | | |

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

Signature  Firm **Geosyntec Consultants, Inc.**

| Facility/Project Name | License/Permit/Monitoring No. | Boring Number |
|---|---|---|
| Metro North Service Center | | P-01-22 |

| Boring Drilled By (First and Last Name, Firm) | Drilling Start Date | Drilling End Date | Drilling Method |
|---|---|---|---|
| Todd Schmalfelt, Cacade Drilling LP | 03/28/2022 | 03/28/2022 | Sonic |

| WI Unique Well No. | DNR Well ID No. | Well Name | Final Static WL | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| | | P-01-22 | Feet MSL | 696.12 Feet MSL | 6 inches |

| Local Grid Origin ☐ or Boring Location ☒ | Lat -- | Local Grid Location |
|---|---|---|
| State Plane **393333.111** N, **2515407.499** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | Long -- | ☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |

| Facility ID | County | County Code | Civil Town/City/Village |
|---|---|---|---|
| 241311510 | Milwaukee | 41 | Milwaukee |

| SAMPLE | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 5/CB | CB | 48/60 | | 20 | (20') Rock >6 inch diameter. | ML-CL | | | | | | | | | | |
| | | | | | (21.5') Brown, SANDY CLAY to CLAYEY SAND (CL-SC); moist, little gravel with few >1 inch diameter. | CL-SC | | | 0.0 | | | | | | | |
| | | | | | (23') Brown, POORLY GRADED SAND with GRAVEL (SP); dry, massive. | SP | | | | | | | | | | |
| 6/CB | CB | 100/120 | | 25 | (25') Brown, POORLY GRADED SAND (SP); dry, trace gravel, massive. | SP | | | 0.2 | | | | | | | |
| | | | | | (29') Grayish brown, CLAY (CL); moist, little sand with few gravel, massive. | CL | | | | | | | | | | |
| | | | | 30 | (30') Grayish brown, POORLY GRADED SAND (SP); moist, medium sand, massive. | SP | | | | | | | | | | |
| | | | | | (31.5') Brown, CLAYEY SAND (SC); dry, few to little rounded gravel, massive. | SC | | | | | | | | | | |
| | | | | | (32.3') Grayish brown, POORLY GRADED SAND (SP); dry, little to some gravel with few >2 inch diameter, massive. | SP | | | 0.2 | | | | | | | |
| 7/CB | CB | 105/120 | | 35 | (35') Grayish brown, POORLY GRADED SAND with SILT (SP-SM); dry, few fine to coarse gravel (well-graded), few silt, massive. | SP-SM | | | | | | | | | | |
| | | | | 40 | | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
|  | **Geosyntec Consultants, Inc.** |

| Facility/Project Name | License/Permit/Monitoring No. | Boring Number |
|---|---|---|
| Metro North Service Center | | P-01-22 |

| Boring Drilled By (First and Last Name, Firm) | Drilling Start Date | Drilling End Date | Drilling Method |
|---|---|---|---|
| Todd Schmalfelt, Cacade Drilling LP | 03/28/2022 | 03/28/2022 | Sonic |

| WI Unique Well No. | DNR Well ID No. | Well Name | Final Static WL | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| | | P-01-22 | Feet MSL | 696.12 Feet MSL | 6 inches |

| Local Grid Origin ☐ or Boring Location ☒ | Lat -- | Local Grid Location |
|---|---|---|
| State Plane **393333.111** N, **2515407.499** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | Long -- | ☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |

| Facility ID | County | County Code | Civil Town/City/Village |
|---|---|---|---|
| 241311510 | Milwaukee | 41 | Milwaukee |

| SAMPLE | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| | | | | 40 | (40') Grayish brown, POORLY GRADED SAND (SP); dry, few gravel, massive. | SP | | | | | | | | | | |
| | | | | | (42.5') Gray, SANDY SILT (ML); dry, some sand with few gravel, massive. | ML | | | | | | | | | | |
| 8/CB | CB | 120/120 | | 45 | (45') Gray, POORLY GRADED SAND to POORLY GRADED GRAVEL (SP-GP); few coarse gravel. | SP-GP | | | | | | | | | | |
| | | | | 50 | (53') Grayish brown, CLAY (CL); moist, medium plasticity, cohesive, few gravel and sand, massive. | CL | | | | | | | | | | |
| 9/CB | CB | 60/60 | | 55 | (53.5') Grayish brown, SANDY CLAY (CL); moist to dry, little to some sand with few gravel, massive. | CL | | | | | | | | | | |
| | | | | | (55') As above from 53.5-55 feet. | | | | | | | | | | | |
| | | | | 60 | | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
|  | **Geosyntec Consultants, Inc.** |

State of Wisconsin
Departament of Natural Resources

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

**Route To:** **Watershed/Wastewater** ☐ **Waste Management** ☐
**Remedation/Redevelopment** ☒ **Other** ☐ _____



| | | | | |
|---|---|---|---|---|
| **Facility/Project Name**<br>Metro North Service Center | | | **License/Permit/Monitoring No.** | **Boring Number**<br>P-01-22 |
| **Boring Drilled By** (First and Last Name, Firm)<br>Todd Schmalfelt, Cacade Drilling LP | | | **Drilling Start Date**<br>03/28/2022 | **Drilling End Date**<br>03/28/2022 | **Drilling Method**<br>Sonic |
| **WI Unique Well No.** | **DNR Well ID No.** | **Well Name**<br>P-01-22 | **Final Static WL**<br>Feet MSL | **Surface Elevation**<br>696.12 Feet MSL | **Borehole Diameter**<br>6 inches |
| **Local Grid Origin** ☐ or **Boring Location** ☒<br>State Plane **393333.111** N, **2515407.499** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | | | **Lat** --<br>**Long** -- | **Local Grid Location**<br>☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W | |
| **Facility ID**<br>241311510 | **County**<br>Milwaukee | | **County Code**<br>41 | **Civil Town/City/Village**<br>Milwaukee | |

| SAMPLE | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 10/CB | CB | 50/60 | | 60 | (60') Gray, SILT (ML); moist. | ML | | | | | | | | | | |
| | | | | | (60.8') Gray, SILTY SAND (SM); wet, few gravel, massive. | SM | | | | | | | | | | |
| | | | | | (62') Gray, SILT (ML); wet, nonplastic, noncohesive, massive. | ML | | | | | | | | | | |
| | | | | | (63') Grayish brown, SANDY CLAY (CL); moist to dry, some sand with few gravel, massive. | CL | | | | | | | | | | |
| | | | | 65 | (65') Boring terminated. | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
|  | **Geosyntec Consultants, Inc.** |

State of Wisconsin
Departament of Natural Resources

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

**Route To:** Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____



| | | | | |
|---|---|---|---|---|
| **Facility/Project Name**<br>Metro North Service Center | | | **License/Permit/Monitoring No.** | **Boring Number**<br>MW-02I-22 |
| **Boring Drilled By** (First and Last Name, Firm)<br>Keith Smith, Cacade Drilling LP | | | **Drilling Start Date**<br>04/05/2022 | **Drilling End Date**<br>04/05/2022 | **Drilling Method**<br>Sonic |
| **WI Unique Well No.** | **DNR Well ID No.** | **Well Name**<br>MW-02I-22 | **Final Static WL**<br>Feet MSL | **Surface Elevation**<br>694.90 Feet MSL | **Borehole Diameter**<br>6 inches |
| **Local Grid Origin** ☐ or **Boring Location** ☒<br>State Plane **393338.734** N, **2515584.109** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | | | **Lat** --<br>**Long** -- | **Local Grid Location**<br>☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W | |
| **Facility ID**<br>241311510 | **County**<br>Milwaukee | | **County Code**<br>41 | **Civil Town/City/Village**<br>Milwaukee | |

| SAMPLE | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 1/CB | CB | 50/60 | | 0 | (0') Brown, CLAY (CL); moist, few debris (asphalt, roots) (FILL). | FILL | | | 0.0 | | | | | | | |
| 2/CB | CB | 30/60 | | 5 | (5') As above from 0-5 feet. | | | | 1.4 | | | | | | | |
| 3/CB | CB | 60/60 | | 10 | (9') Brown, CLAY (CL); moist, medium plasticity, cohesive, massive. | CL | | | | | | | | | | |
| | | | | | (11') Brown, CLAY with SAND (CL); moist to wet, medium plasticity, cohesive, few gravel, massive. | CL | | | | | | | | | | |
| | | | | | (12.5') Gray, CLAY (CL); moist, medium plasticity, cohesive, trace gravel. | CL | | | | | | | | | | |
| | | | | | (14') Poorly graded sand (SP), wet. | ML | | | | | | | | | | |
| 4/CB | CB | 60/60 | | 15 | (14.1') Gray, SILT (ML); wet, nonplastic, noncohesive, massive. | CL | | | | | | | | | | |
| | | | | | (15') Gray, CLAY (CL); moist, medium plasticity, cohesive, few gravel, massive. | ML | | | 1.0 | | | | | | | |
| | | | | | (15.8') Gray, SILT (ML); moist, nonplastic, noncohesive, massive. | CL | | | | | | | | | | |
| | | | | | (16.5') Gray, CLAY (CL); moist, medium plasticity, cohesive, massive. | | | | | | | | | | | |
| | | | | 20 | (19.5') Few interbedded silt seams | | | | 1.2 | | | | | | | |

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

Signature

Firm **Geosyntec Consultants, Inc.**

| Facility/Project Name | License/Permit/Monitoring No. | Boring Number |
|---|---|---|
| Metro North Service Center | | MW-02I-22 |

| Boring Drilled By (First and Last Name, Firm) | Drilling Start Date | Drilling End Date | Drilling Method |
|---|---|---|---|
| Keith Smith, Cacade Drilling LP | 04/05/2022 | 04/05/2022 | Sonic |

| WI Unique Well No. | DNR Well ID No. | Well Name | Final Static WL | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| | | MW-02I-22 | Feet MSL | 694.90 Feet MSL | 6 inches |

| Local Grid Origin ☐ or Boring Location ☒ | Lat -- | Local Grid Location |
|---|---|---|
| State Plane **393338.734** N, **2515584.109** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | Long -- | ☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |

| Facility ID | County | County Code | Civil Town/City/Village |
|---|---|---|---|
| 241311510 | Milwaukee | 41 | Milwaukee |

| SAMPLE | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 5/CB | CB | 60/60 | | 20 | <0.1-inch thick.<br>(20') As above from 16.5-20 feet but with little silt seams 0.1-1 inch thick. | CL | | | | | | | | | | |
| | | | | | (22') Gray, SILT (ML); moist, nonplastic, noncohesive, massive. | ML | | | 0.0 | | | | | | | |
| 6/CB | CB | 60/60 | | 25 | (24') Gray, CLAY and SILT (CL-ML); moist, nonplastic to medium plasticity, cohesive, laminated with interbedded clay and silt. | CL-ML | | | | | | | | | | |
| | | | | | (25.5') Gray, CLAY (CL); moist, medium plasticity, cohesive, massive. | CL | | | | | | | | | | |
| | | | | | (26.1') Gray, CLAY (CL); moist, medium plasticity, cohesive, few to little gravel, few cobbles, massive. | SP | | | | | | | | | | |
| | | | | | (27') Grayish brown, POORLY GRADED SAND with GRAVEL (SP); trace cobbles, massive. | CL | | | | | | | | | | |
| 7/CB | CB | 60/60 | | 30 | (29.5') Gray, SANDY CLAY (CL); moist, low plasticity, cohesive, some sand with few to little gravel and coarse sand, massive. | SP | | | | | | | | | | |
| | | | | | (30') Grayish brown, POORLY GRADED SAND with GRAVEL (SP); moist to dry, trace cobble, massive. | CL | | | | | | | | | | |
| | | | | | (32') Gray, SANDY CLAY (CL); moist, low plasticity, cohesive, little gravel, few cobble, massive. | SP | | | | | | | | | | |
| 8/CB | CB | 60/60 | | 35 | (34') Brown, POORLY GRADED SAND with GRAVEL (SP); moist to dry, massive. | | | | | | | | | | | |
| | | | | | (36') Gray, SANDY CLAY (CL); moist, low plasticity, cohesive, some gravel/cobbles, massive. | CL<br>SP | | | | | | | | | | |
| | | | | | (36.5') Gray, POORLY GRADED SAND (SP); moist, few to little gravel, massive. | | | | 55.0 | | | | | | | |
| | | | | 40 | | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
| | **Geosyntec Consultants, Inc.** |

State of Wisconsin
Departament of Natural Resources

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

**Route To:** Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____



| **Facility/Project Name** | **License/Permit/Monitoring No.** | **Boring Number** |
|---|---|---|
| Metro North Service Center | | MW-02I-22 |

| **Boring Drilled By** (First and Last Name, Firm) | **Drilling Start Date** | **Drilling End Date** | **Drilling Method** |
|---|---|---|---|
| Keith Smith, Cacade Drilling LP | 04/05/2022 | 04/05/2022 | Sonic |

| **WI Unique Well No.** | **DNR Well ID No.** | **Well Name** | **Final Static WL** | **Surface Elevation** | **Borehole Diameter** |
|---|---|---|---|---|---|
| | | MW-02I-22 | Feet MSL | 694.90 Feet MSL | 6 inches |

| **Local Grid Origin** ☐ or **Boring Location** ☒ | **Lat --** | **Local Grid Location** |
|---|---|---|
| State Plane **393338.734** N, **2515584.109** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | **Long --** | ☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |

| **Facility ID** | **County** | **County Code** | **Civil Town/City/Village** |
|---|---|---|---|
| 241311510 | Milwaukee | 41 | Milwaukee |

| SAMPLE | | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 9/CB | CB | 60/60 | | 40 | (40') Gray, SANDY CLAY (CL); moist, low plasticity, cohesive, little gravel, massive. | CL | | | | | | | | | | |
| | | | | | (42') Gray, POORLY GRADED SAND with GRAVEL (SP); moist to dry, little gravel, trace fines, massive. | SP | | | | | | | | | | |
| 10/CB | CB | 60/60 | | 45 | (45') As above from 42-45 feet but wet. | | | | | | | | | | | |
| | | | | 50 | (50') Boring terminated. | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
| | **Geosyntec Consultants, Inc.** |

State of Wisconsin
Departament 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 No.** | **Boring Number** |
|---|---|---|
| Metro North Service Center | | MW-03I-22 |

| **Boring Drilled By** (First and Last Name, Firm) | **Drilling Start Date** | **Drilling End Date** | **Drilling Method** |
|---|---|---|---|
| Keith Smith, Cacade Drilling LP | 01/06/2022 | 01/06/2022 | Sonic |

| **WI Unique Well No.** | **DNR Well ID No.** | **Well Name** | **Final Static WL** | **Surface Elevation** | **Borehole Diameter** |
|---|---|---|---|---|---|
| | | MW-03I-22 | Feet MSL | 696.97 Feet MSL | 6 inches |

| **Local Grid Origin** ☐ or **Boring Location** ☒ | **Lat --** | **Local Grid Location** |
|---|---|---|
| State Plane **393319.569** N, **2515265.088** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | **Long --** | ☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |

| **Facility ID** | **County** | **County Code** | **Civil Town/City/Village** |
|---|---|---|---|
| 241311510 | Milwaukee | 41 | Milwaukee |

| SAMPLE | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 1/CB | CB | 24/60 | | 0 | (0') Brown, CLAY (CL); moist, few gravel (FILL). | FILL | | | 0.0 | | | | | | | |
| | | | | | (4') Black, ASPHALT. | | | | | | | | | | | |
| 2/CB | CB | 24/60 | | 5 | (5') Brown, CLAY (CL); moist to wet, medium plasticity, cohesive, laminated (lacustrine) with trace roots. | CL | | | 2.4 | | | | | | | |
| 3/CB | CB | 50/60 | | 10 | (10') Wet. | | | | | | | | | | | |
| | | | | | (10.5') Brown, CLAYEY SAND (SC); moist to wet, nonplastic to low plasticity, cohesive, medium sand with few to little gravel, massive. | SC | | | | | | | | | | |
| | | | | | (12.5') Gray, CLAY (CL); moist, medium plasticity, cohesive, few to little sand and few gravel, massive. | CL | | | | | | | | | | |
| 4/CB | CB | 60/60 | | 15 | | | | | 0.0 | | | | | | | |
| | | | | | (16.5') Brown, CLAY (CL); dry to moist, medium plasticity, cohesive, few to little gravel. | CL | | | | | | | | | | |
| | | | | | (17') Gray, CLAY (CL); dry to moist, low to medium plasticity, cohesive, little sand with few fine to coarse gravel, massive. | CL | | | | | | | | | | |
| | | | | 20 | | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
| | **Geosyntec Consultants, Inc.** |

State of Wisconsin
Departament 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 No. | Boring Number |
|---|---|---|
| Metro North Service Center | | MW-03I-22 |

| Boring Drilled By (First and Last Name, Firm) | Drilling Start Date | Drilling End Date | Drilling Method |
|---|---|---|---|
| Keith Smith, Cacade Drilling LP | 01/06/2022 | 01/06/2022 | Sonic |

| WI Unique Well No. | DNR Well ID No. | Well Name | Final Static WL | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| | | MW-03I-22 | Feet MSL | 696.97 Feet MSL | 6 inches |

| Local Grid Origin ☐ or Boring Location ☒ | Lat -- | Local Grid Location |
|---|---|---|
| State Plane **393319.569** N, **2515265.088** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | Long -- | ☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |

| Facility ID | County | County Code | Civil Town/City/Village |
|---|---|---|---|
| 241311510 | Milwaukee | 41 | Milwaukee |

| SAMPLE | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 5/CB | CB | 60/60 | | 20 | | CL | | | 0.4 | | | | | | | |
| | | | | | (22') Brown, SANDY CLAY with GRAVEL (CL); moist, low plasticity, cohesive, medium to coarse sand with little to some fine to coarse gravel and trace to few cobbles, massive. | CL | | | | | | | | | | |
| | | | | | | SP | | | | | | | | | | |
| 6/CB | CB | 60/60 | | 25 | (24') Brown, POORLY GRADED SAND (SP); dry, coarse sand with little gravel and few cobbles, massive.<br>(25') As above from 24-25 feet.<br>(26') Clayey sand from 26-26.3 feet. | | | | | | | | | | | |
| 7/CB | CB | 50/60 | | 30 | (30') Gray, POORLY GRADED SAND (SP); moist, medium to coarse sand with trace gravel, massive. | SP | | | | | | | | | | |
| | | | | | (32.6') Gray, CLAYEY SAND to SANDY CLAY (SC-CL); dry, fine to medium sand with little gravel and few cobbles, massive. | SC-CL | | | | | | | | | | |
| 8/CB | CB | 40/60 | | 35 | (35') As above from 32.5-35 feet. | | | | | | | | | | | |
| | | | | 40 | | | | | | | | | | | | |

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

Signature  Firm **Geosyntec Consultants, Inc.**

State of Wisconsin
Departament of Natural Resources

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

**Route To:** Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____



| | | | | |
|---|---|---|---|---|
| **Facility/Project Name**<br>Metro North Service Center | | | **License/Permit/Monitoring No.** | **Boring Number**<br>MW-03I-22 |
| **Boring Drilled By** (First and Last Name, Firm)<br>Keith Smith, Cacade Drilling LP | | | **Drilling Start Date**<br>01/06/2022 | **Drilling End Date**<br>01/06/2022 | **Drilling Method**<br>Sonic |
| **WI Unique Well No.** | **DNR Well ID No.** | **Well Name**<br>MW-03I-22 | **Final Static WL**<br>Feet MSL | **Surface Elevation**<br>696.97 Feet MSL | **Borehole Diameter**<br>6 inches |
| **Local Grid Origin** ☐ or **Boring Location** ☒<br>State Plane **393319.569** N, **2515265.088** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | | | **Lat** --<br>**Long** -- | **Local Grid Location**<br>☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W | |
| **Facility ID**<br>241311510 | **County**<br>Milwaukee | | **County Code**<br>41 | **Civil Town/City/Village**<br>Milwaukee | |

| SAMPLE | | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 9/CB | CB | 40/120 | | 40 | | SC-CL | | | | | | | | | | |
| | | | | | (41') Gray, POORLY GRADED SAND with GRAVEL (SP); moist, trace cobbles, massive. | SP | | | | | | | | | | |
| | | | | | (44') Pushed large rock from 44-50 feet. | | | | | | | | | | | |
| | | | | 45 | | | | | | | | | | | | |
| 10/CB | CB | 60/60 | | 50 | | | | | | | | | | | | |
| | | | | | (51') Gray, POORLY GRADED SAND (SP); wet, fine sand without gravel, massive. | SP | | | | | | | | | | |
| | | | | 55 | | | | | | | | | | | | |
| | | | | | (55') Boring terminated. | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
| | **Geosyntec Consultants, Inc.** |

State of Wisconsin
Departament of Natural Resources

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

**Route To:** Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____



| **Facility/Project Name** | **License/Permit/Monitoring No.** | **Boring Number** |
|---|---|---|
| Metro North Service Center | | MW-04I-22 |

| **Boring Drilled By** (First and Last Name, Firm) | **Drilling Start Date** | **Drilling End Date** | **Drilling Method** |
|---|---|---|---|
| Todd Schmalfelt, Cacade Drilling LP | 04/01/2022 | 04/01/2022 | Sonic |

| **WI Unique Well No.** | **DNR Well ID No.** | **Well Name** | **Final Static WL** | **Surface Elevation** | **Borehole Diameter** |
|---|---|---|---|---|---|
| | | MW-04I-22 | Feet MSL | 697.10 Feet MSL | 6 inches |

| **Local Grid Origin** ☐ or **Boring Location** ☒ | **Lat --** | **Local Grid Location** |
|---|---|---|
| State Plane **393535.588** N, **2515454.522** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | **Long --** | ☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |

| **Facility ID** | **County** | **County Code** | **Civil Town/City/Village** |
|---|---|---|---|
| 241311510 | Milwaukee | 41 | Milwaukee |

| SAMPLE | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 1/CB | CB | 24/60 | | 0 | (0') Brown, CLAY with SAND (CL); moist, medium plasticity, cohesive, few gravel (FILL). | FILL | | | 0.0 | | | | | | | |
| 2/CB | CB | 36/60 | | 5 | (5') As above from 0-5 feet. | | | | 0.0 | | | | | | | |
| | | | | | (8') FILL; brick and debris. | FILL | | | | | | | | | | |
| 3/CB | CB | 110/120 | | 10 | (9') Brown, CLAY (CL); moist, medium plasticity, cohesive, few sand with trace gravel and cobbles, massive. | CL | | | 0.0 | | | | | | | |
| | | | | | (13') Brown, POORLY GRADED SAND with GRAVEL (SP); moist, trace cobbles, massive. | SP | | | | | | | | | | |
| | | | | | | CL | | | | | | | | | | |
| | | | | 15 | (14') Brown, CLAY (CL); moist, medium plasticity, cohesive, massive. | | | | | | | | | | | |
| | | | | | (16') Gray, CLAY (CL); moist, medium plasticity, cohesive, massive. | CL | | | 0.5 | | | | | | | |
| | | | | | (19') Brown, POORLY GRADED SAND (SP); wet, massive. | SP<br>SC | | | | | | | | | | |
| | | | | 20 | | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
| | **Geosyntec Consultants, Inc.** |

State of Wisconsin
Departament of Natural Resources

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

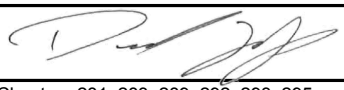
**Route To:** Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____



| | | | | |
|---|---|---|---|---|
| **Facility/Project Name**<br>Metro North Service Center | | | **License/Permit/Monitoring No.** | **Boring Number**<br>MW-04I-22 |
| **Boring Drilled By** (First and Last Name, Firm)<br>Todd Schmalfelt, Cacade Drilling LP | | | **Drilling Start Date**<br>04/01/2022 | **Drilling End Date**<br>04/01/2022 | **Drilling Method**<br>Sonic |
| **WI Unique Well No.** | **DNR Well ID No.** | **Well Name**<br>MW-04I-22 | **Final Static WL**<br>Feet MSL | **Surface Elevation**<br>697.10 Feet MSL | **Borehole Diameter**<br>6 inches |
| **Local Grid Origin** ☐ or **Boring Location** ☒<br>State Plane **393535.588** N, **2515454.522** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | | | **Lat** --<br>**Long** -- | **Local Grid Location**<br>☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W | |
| **Facility ID**<br>241311510 | **County**<br>Milwaukee | | **County Code**<br>41 | **Civil Town/City/Village**<br>Milwaukee | |

| SAMPLE | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 4/CB | CB | 100/120 | | 20 | (19.3') Gray, CLAYEY SAND (SC); moist, nonplastic to low plasticity, low cohesive, few gravel and some fines, massive. | SC | | | | | | | | | | |
| | | | | | (21') Gray, CLAY (CL); medium plasticity, cohesive, few very small silt seams, massive. | CL | | | 1.0 | | | | | | | |
| | | | | | (23.5') Gray, CLAYEY SILT (CL-ML); moist to wet, low to medium plasticity, cohesive, laminated. | CL-ML | | | | | | | | | | |
| | | | | 25 | (25') Gray, POORLY GRADED SAND (SP); moist, few to little gravel, massive. | SP | | | | | | | | | | |
| | | | | | (25.5') Gray, SILT (ML); moist, low plasticity to nonplastic, few fine sand, massive. | ML | | | | | | | | | | |
| | | | | | (27') Gray, CLAY (CL); moist, medium plasticity, cohesive, few gravel and sand, massive. | CL | | | 1.9 | | | | | | | |
| 5/CB | CB | 96/120 | | 30 | (30') Gray, SILT (ML); moist, low plasticity to nonplastic, cohesive, massive. | ML | | | | | | | | | | |
| | | | | | (31') Gray, SANDY CLAY (CL); moist, low plasticity, cohesive, fine to coarse sand with few to little gravel, massive. | CL | | | | | | | | | | |
| | | | | 35 | | | | | | | | | | | | |
| | | | | | (36') Gray, POORLY GRADED SAND with GRAVEL (SP); dry, few cobbles, massive. | SP | | | | | | | | | | |
| | | | | 40 | | | | | | | | | | | | |

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

Signature  Firm **Geosyntec Consultants, Inc.**

State of Wisconsin
Departament 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 No. | Boring Number |
|---|---|---|
| Metro North Service Center | | MW-04I-22 |

| Boring Drilled By (First and Last Name, Firm) | Drilling Start Date | Drilling End Date | Drilling Method |
|---|---|---|---|
| Todd Schmalfelt, Cacade Drilling LP | 04/01/2022 | 04/01/2022 | Sonic |

| WI Unique Well No. | DNR Well ID No. | Well Name | Final Static WL | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| | | MW-04I-22 | Feet MSL | 697.10 Feet MSL | 6 inches |

| Local Grid Origin ☐ or Boring Location ☒ | Lat -- | Local Grid Location |
|---|---|---|
| State Plane **393535.588** N, **2515454.522** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | Long -- | ☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |

| Facility ID | County | County Code | Civil Town/City/Village |
|---|---|---|---|
| 241311510 | Milwaukee | 41 | Milwaukee |

| SAMPLE | | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 6/CB | CB | 60/120 | | 40 | (40') As above from 36-40 feet. | SP | | | | | | | | | | |
| | | | | | (41') Gray, SANDY CLAY to CLAYEY SAND (SC); dry, low plasticity, cohesive, coarse sand with little to some gravel, massive. | SC | | | | | | | | | | |
| | | | | 45 | | | | | | | | | | | | |
| | | | | | (47') Gray, CLAYEY SAND (SC); wet, nonplastic, noncohesive, medium sand, few gravel, little fines, massive. | SC | | | | | | | | | | |
| 7/CB | CB | 50/60 | | 50 | | | | | | | | | | | | |
| | | | | | (53') Grayish brown, CLAY (CL); moist, medium plasticity, cohesive, few gravel and sand, massive. | CL | | | | | | | | | | |
| | | | | 55 | (55') Boring terminated. | | | | | | | | | | | |

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

Signature  Firm **Geosyntec Consultants, Inc.**

State of Wisconsin
Departament of Natural Resources

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

**Route To:** Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____



| | | | | |
|---|---|---|---|---|
| **Facility/Project Name**<br>Metro North Service Center | | **License/Permit/Monitoring No.** | | **Boring Number**<br>P-05-22 |
| **Boring Drilled By** (First and Last Name, Firm)<br>Keith Smith, Cacade Drilling LP | | **Drilling Start Date**<br>04/07/2022 | **Drilling End Date**<br>04/07/2022 | **Drilling Method**<br>Sonic |
| **WI Unique Well No.** | **DNR Well ID No.** | **Well Name**<br>P-05-22 | **Final Static WL**<br>Feet MSL | **Surface Elevation**<br>690.49 Feet MSL | **Borehole Diameter**<br>6 inches |
| **Local Grid Origin** ☐ or **Boring Location** ☒<br>State Plane **393462.506** N, **2515569.202** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | | | **Lat** --<br>**Long** -- | **Local Grid Location**<br>☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |
| **Facility ID**<br>241311510 | **County**<br>Milwaukee | **County Code**<br>41 | **Civil Town/City/Village**<br>Milwaukee | |

| SAMPLE | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 1/CB | CB | 60/60 | | 0 | (0') CONCRETE. | | | | | | | | | | | |
| | | | | | (0.8') Brown, CLAY (CL); moist, trace gravel (FILL). | FILL | | | 0.0 | | | | | | | |
| | | | | | (3') Brown, CLAY (CL); moist, medium plasticity, cohesive, possible laminations. | CL | | | | | | | | | | |
| 2/CB | CB | 60/60 | | 5 | (5.5') Brown, CLAY (CL); moist, medium plasticity, cohesive, few sand and trace gravel, massive. | CL | | | 0.5 | | | | | | | |
| | | | | | (8') Grading to SANDY CLAY (CL). | | | | | | | | | | | |
| 3/CB | CB | 60/60 | | 10 | (10') As above from 8-10 feet but grading to gray. | | | | 0.0 | | | | | | | |
| 4/CB | CB | 60/60 | | 15 | (15') Gray, SANDY CLAY (CL); moist, medium plasticity, cohesive, few wet thin (<0.1 inch) silt seams. | CL | | | | | | | | | | |
| | | | | | (18') Gray, SILT (ML); moist, nonplastic, noncohesive, massive. | ML | | | | | | | | | | |
| | | | | 20 | | | | | | | | | | | | |

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

Signature  Firm **Geosyntec Consultants, Inc.**

State of Wisconsin
Departament of Natural Resources

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

**Route To:** Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____



| | | | | |
|---|---|---|---|---|
| **Facility/Project Name**<br>Metro North Service Center | | | **License/Permit/Monitoring No.** | **Boring Number**<br>P-05-22 |
| **Boring Drilled By** (First and Last Name, Firm)<br>Keith Smith, Cacade Drilling LP | | | **Drilling Start Date**<br>04/07/2022 | **Drilling End Date**<br>04/07/2022 | **Drilling Method**<br>Sonic |
| **WI Unique Well No.** | **DNR Well ID No.** | **Well Name**<br>P-05-22 | **Final Static WL**<br>Feet MSL | **Surface Elevation**<br>690.49 Feet MSL | **Borehole Diameter**<br>6 inches |
| **Local Grid Origin** ☐ or **Boring Location** ☒<br>State Plane **393462.506** N, **2515569.202** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | | | **Lat** --<br>**Long** -- | **Local Grid Location**<br>☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W | |
| **Facility ID**<br>241311510 | **County**<br>Milwaukee | | **County Code**<br>41 | **Civil Town/City/Village**<br>Milwaukee | |

| SAMPLE | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 5/CB | CB | 50/60 | | 20 | (19.8') Gray, CLAY (CL); moist, medium plasticity, cohesive, interbedded clay and silt. | CL | | | | | | | | | | |
| | | | | | (20.6') Gray, CLAY with SAND (CL); moist, low to medium plasticity, cohesive, fine to coarse sand with few gravel, massive. | CL | | | | | | | | | | |
| | | | | | (22') Gray, SANDY CLAY to CLAYEY SAND (CL-SC); dry, coarse sand with few to little gravel and trace cobbles, massive. | CL-SC | | | | | | | | | | |
| 6/CB | CB | 50/60 | | 25 | (25') Gray, POORLY GRADED SAND to POORLY GRADED GRAVEL (SP-GP); moist, coarse sand with fine to medium gravel, massive. | SP-GP | | | | | | | | | | |
| | | | | | (29') Gray, CLAYEY SAND to SANDY CLAY (SC); moist, nonplastic fines, cohesive, coarse sand with few to little gravel, massive. | SC | | | | | | | | | | |
| 7/CB | CB | 50/60 | | 30 | (30') As above from 29-30 feet. | | | | | | | | | | | |
| | | | | | (33') Gray, POORLY GRADED SAND (SP); dry, few gravel and trace cobbles, massive. | SP | | | | | | | | | | |
| 8/CB | CB | 50/60 | | 35 | (35') As above from 33-35 feet. | | | | 0.0 | | | | | | | |
| | | | | | (39') Gray, CLAYEY SAND (SC); moist, nonplastic finees, cohesive, coarse sand | SC | | | | | | | | | | |
| | | | | 40 | | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
| | **Geosyntec Consultants, Inc.** |

| Facility/Project Name | License/Permit/Monitoring No. | Boring Number |
|---|---|---|
| Metro North Service Center | | P-05-22 |

| Boring Drilled By (First and Last Name, Firm) | Drilling Start Date | Drilling End Date | Drilling Method |
|---|---|---|---|
| Keith Smith, Cacade Drilling LP | 04/07/2022 | 04/07/2022 | Sonic |

| WI Unique Well No. | DNR Well ID No. | Well Name | Final Static WL | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| | | P-05-22 | Feet MSL | 690.49 Feet MSL | 6 inches |

| Local Grid Origin ☐ or Boring Location ☒ | Lat -- | Local Grid Location |
|---|---|---|
| State Plane **393462.506** N, **2515569.202** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | Long -- | ☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |

| Facility ID | County | County Code | Civil Town/City/Village |
|---|---|---|---|
| 241311510 | Milwaukee | 41 | Milwaukee |

| SAMPLE | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 9/CB | CB | 80/120 | | 40 | and fine gravel, massive. | SC | | | 0.0 | | | | | | | |
| | | | | 45 | (44') Gray, CLAY (CL); moist, medium plasticity, cohesive, trace gravel and sand, massive. | CL | | | | | | | | | | |
| | | | | | (45') Gray, POORLY GRADED SAND with CLAY and GRAVEL (SP-SC); wet, nonplastic, noncohesive, some gravel, fine sand, massive. | SP-SC | | | | | | | | | | |
| | | | | 50 | (48.5') Gray, SANDY CLAY (CL); moist, low plasticity, cohesive, medium to coarse sand with few gravel and trace cobbles, massive. | CL | | | | | | | | | | |
| 10/CB | CB | 60/60 | | | (50.5') Gray, CLAY (CL); moist, medium plasticity, cohesive, few gravel, massive. | CL | | | | | | | | | | |
| | | | | | (51.5') 0.1-inch silt seam. | | | | | | | | | | | |
| | | | | | (52.3') Gray, POORLY GRADED SAND (SP); wet, fine to medium sand, massive. | SP<br>ML | | | | | | | | | | |
| | | | | | (52.6') Gray, SILT (ML); wet, nonplastic, noncohesive, massive. | SP<br>ML | | | | | | | | | | |
| | | | | 55 | (53.5') Gray, POORLY GRADED SAND (SP); wet, massive. | SP | | | | | | | | | | |
| 11/CB | CB | 120/120 | | | (54') Gray, SILT (ML); moist, nonplastic, noncohesive, trace gravel, massive. | ML | | | | | | | | | | |
| | | | | | (54.5') Gray, POORLY GRADED SAND (SP); wet, fine sand, massive. | | | | | | | | | | | |
| | | | | | (55') Gray, SILT (ML); wet, nonplastic, noncohesive, massive. | CL | | | | | | | | | | |
| | | | | | (57.5') Gray, CLAY (CL); moist, low to medium plasticity, cohesive, few gravel, massive. | CL-ML | | | | | | | | | | |
| | | | | 60 | | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
| | **Geosyntec Consultants, Inc.** |

State of Wisconsin
Departament of Natural Resources

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

**Route To:** **Watershed/Wastewater** ☐ **Waste Management** ☐
**Remedation/Redevelopment** ☒ **Other** ☐ _____



| | | | |
|---|---|---|---|
| **Facility/Project Name**<br>Metro North Service Center | | **License/Permit/Monitoring No.** | **Boring Number**<br>P-05-22 |
| **Boring Drilled By** (First and Last Name, Firm)<br>Keith Smith, Cacade Drilling LP | | **Drilling Start Date**<br>04/07/2022 | **Drilling End Date**<br>04/07/2022 | **Drilling Method**<br>Sonic |
| **WI Unique Well No.** | **DNR Well ID No.** | **Well Name**<br>P-05-22 | **Final Static WL**<br>Feet MSL | **Surface Elevation**<br>690.49 Feet MSL | **Borehole Diameter**<br>6 inches |
| **Local Grid Origin** ☐ or **Boring Location** ☒<br>State Plane **393462.506** N, **2515569.202** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | | **Lat** --<br>**Long** -- | **Local Grid Location**<br>☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W | |
| **Facility ID**<br>241311510 | **County**<br>Milwaukee | **County Code**<br>41 | **Civil Town/City/Village**<br>Milwaukee | |

| SAMPLE | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| | | | | 60 | (59') Gray, SILTY CLAY (CL-ML); dry, low to medium plasticity, cohesive, few sand and trace gravel, massive. | CL-ML | | | | | | | | | | |
| | | | | | (62.5') Gray, SILT and CLAY (CL-ML); moist, low to medium plasticity, cohesive, interbedded layers. | CL-ML | | | | | | | | | | |
| | | | | | (64') Gray, CLAY (CL); dry. | CL | | | | | | | | | | |
| | | | | 65 | (65') Boring terminated. | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
| | **Geosyntec Consultants, Inc.** |

State of Wisconsin
Departament of Natural Resources

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

**Route To:** Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____



| **Facility/Project Name** | **License/Permit/Monitoring No.** | **Boring Number** |
|---|---|---|
| Metro North Service Center | | P-06-22 |

| **Boring Drilled By** (First and Last Name, Firm) | **Drilling Start Date** | **Drilling End Date** | **Drilling Method** |
|---|---|---|---|
| Todd Schmalfelt, Cacade Drilling LP | 03/30/2022 | 03/30/2022 | Sonic |

| **WI Unique Well No.** | **DNR Well ID No.** | **Well Name** | **Final Static WL** | **Surface Elevation** | **Borehole Diameter** |
|---|---|---|---|---|---|
| | | P-06-22 | Feet MSL | 690.69 Feet MSL | 6 inches |

| **Local Grid Origin** ☐ or **Boring Location** ☒ | **Lat --** | **Local Grid Location** |
|---|---|---|
| State Plane **393555.562** N, **2515669.348** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | **Long --** | ☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |

| **Facility ID** | **County** | **County Code** | **Civil Town/City/Village** |
|---|---|---|---|
| 241311510 | Milwaukee | 41 | Milwaukee |

| SAMPLE | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| 1/CB | CB | 48/48 | | 0 | (0') CONCRETE. | | | | | | | | | | | |
| | | | | | (0.8') Brown to black, WELL-GRADED SAND (SW); dry, few gravel (FILL). | FILL | | | | | | | | | | |
| | | | | | (1.5') Brown to black, CLAY (CL); moist, few gravel and sand (FILL). | FILL | | | 0.0 | | | | | | | |
| | | | | | (3') Brown, CLAY (CL); moist, medium plasticity, cohesive, trace to few gravel >2 inches and few sand, massive. | CL | | | | | | | | | | |
| 2/CB | CB | 36/60 | | 5 | (4') As above from 3-4 feet. | | | | | | | | | | | |
| | | | | | (7') Brown, CLAY (CL); moist, medium plasticity, cohesive, massive. | CL | | | 1.0 | | | | | | | |
| 3/CB | CB | 32/60 | | | (9') As above from 7-9 feet. | | | | | | | | | | | |
| | | | | 10 | (10') Gray, CLAYEY SAND with GRAVEL (SC); moist, nonplastic to low plasticity, cohesive, few gravel and few to little sand, massive. | SC | | | | | | | | | | |
| | | | | | (10.5') Brown, CLAY (CL); moist, medium plasticity, cohesive, massive. | CL | | | 0.3 | | | | | | | |
| 4/CB | CB | 120/144 | | | (14') As above from 10.5-14 feet. | | | | | | | | | | | |
| | | | | 15 | (14.6') Gray, CLAY (CL); moist, low to medium plasticity, cohesive, little silt and few gravel. | CL | | | 0.8<br>8.6 | | | | | | | |
| | | | | | (15.5') Brown, CLAY (CL); moist to dry, little silt with few gravel and sand, massive. | CL | | | | | | | | | | |
| | | | | | (16') Grading to grayish brown, few gravel >1.5 inch diameter. | | | | | | | | | | | |
| | | | | 20 | | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
| | **Geosyntec Consultants, Inc.** |

State of Wisconsin
Departament of Natural Resources

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

**Route To:** Watershed/Wastewater ☐ Waste Management ☐
Remedation/Redevelopment ☒ Other ☐ _____



| **Facility/Project Name** | **License/Permit/Monitoring No.** | **Boring Number** |
|---|---|---|
| Metro North Service Center | | P-06-22 |

| **Boring Drilled By** (First and Last Name, Firm) | **Drilling Start Date** | **Drilling End Date** | **Drilling Method** |
|---|---|---|---|
| Todd Schmalfelt, Cacade Drilling LP | 03/30/2022 | 03/30/2022 | Sonic |

| **WI Unique Well No.** | **DNR Well ID No.** | **Well Name** | **Final Static WL** | **Surface Elevation** | **Borehole Diameter** |
|---|---|---|---|---|---|
| | | P-06-22 | Feet MSL | 690.69 Feet MSL | 6 inches |

| **Local Grid Origin** ☐ or **Boring Location** ☒ | **Lat --** | **Local Grid Location** |
|---|---|---|
| State Plane **393555.562** N, **2515669.348** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | **Long --** | ☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |

| **Facility ID** | **County** | **County Code** | **Civil Town/City/Village** |
|---|---|---|---|
| 241311510 | Milwaukee | 41 | Milwaukee |

| SAMPLE | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| | | | | 20 | | CL | | | | | | | | | | |
| | | | | | (24') Grayish brown, POORLY GRADED SAND (SP); dry, coarse sand with few to little gravel with few cobbles, massive. | SP | | | | | | | | | | |
| 5/CB | CB | 96/96 | | 25 | | | | | | | | | | | | |
| | | | | | (29') Gray, SANDY CLAY (CL); dry, low to medium plasticity, little to some coarse sand with few to little gravel, massive. | CL | | | | | | | | | | |
| | | | | 30 | | | | | | | | | | | | |
| | | | | | (32') Grayish brown, POORLY GRADED SAND (SP); moist, coarse sand with little to some gravel, massive. | SP | | | | | | | | | | |
| 6/CB | CB | 120/180 | | 35 | | | | | 0.1 | | | | | | | |
| | | | | | (36') Gray, SANDY CLAY (CL); dry, low plasticity, cohesive, coarse sand with little to some gravel, massive. | CL | | | | | | | | | | |
| | | | | 40 | | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
|  | **Geosyntec Consultants, Inc.** |

| Facility/Project Name | License/Permit/Monitoring No. | Boring Number |
|---|---|---|
| Metro North Service Center | | P-06-22 |

| Boring Drilled By (First and Last Name, Firm) | Drilling Start Date | Drilling End Date | Drilling Method |
|---|---|---|---|
| Todd Schmalfelt, Cacade Drilling LP | 03/30/2022 | 03/30/2022 | Sonic |

| WI Unique Well No. | DNR Well ID No. | Well Name | Final Static WL | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| | | P-06-22 | Feet MSL | 690.69 Feet MSL | 6 inches |

| Local Grid Origin ☐ or Boring Location ☒ | Lat -- | Local Grid Location |
|---|---|---|
| State Plane **393555.562** N, **2515669.348** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | Long -- | ☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |

| Facility ID | County | County Code | Civil Town/City/Village |
|---|---|---|---|
| 241311510 | Milwaukee | 41 | Milwaukee |

| SAMPLE | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| | | | | 40 | | CL | | | 0.2 | | | | | | | |
| | | | | | (43') Grayish brown, CLAY (CL); moist, medium plasticity, cohesive, few gravel and sand, massive. | CL | | | | | | | | | | |
| | | | | 45 | (45') Gray, WELL-GRADED SAND with GRAVEL (SW); moist to wet, coarse sand with little to some fine to medium gravel, massive. | SW | | | | | | | | | | |
| 7/CB | CB | 120/120 | | | (48') Grayish brown, CLAY (CL); moist, medium plasticity, cohesive, few gravel and sand, massive. | CL | | | | | | | | | | |
| | | | | 50 | (49') As above from 43-49 feet. | | | | | | | | | | | |
| | | | | 55 | (55.5') Gray, POORLY GRADED SAND (SP); wet, fine sand interbedded with clay and silt, massive. | SP | | | | | | | | | | |
| | | | | | (57') Gray, SANDY CLAY (CL); moist, medium plasticity, cohesive, trace gravel and some sand, massive. | CL | | | 0.0 | | | | | | | |
| 8/CB | CB | 72/72 | | | (59') As above from 57-59 feet. | | | | | | | | | | | |
| | | | | 60 | | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
| | **Geosyntec Consultants, Inc.** |

| Facility/Project Name | License/Permit/Monitoring No. | Boring Number |
|---|---|---|
| Metro North Service Center | | P-06-22 |

| Boring Drilled By (First and Last Name, Firm) | Drilling Start Date | Drilling End Date | Drilling Method |
|---|---|---|---|
| Todd Schmalfelt, Cacade Drilling LP | 03/30/2022 | 03/30/2022 | Sonic |

| WI Unique Well No. | DNR Well ID No. | Well Name | Final Static WL | Surface Elevation | Borehole Diameter |
|---|---|---|---|---|---|
| | | P-06-22 | Feet MSL | 690.69 Feet MSL | 6 inches |

| Local Grid Origin ☐ or Boring Location ☒ | Lat -- | Local Grid Location |
|---|---|---|
| State Plane **393555.562** N, **2515669.348** E<br>**SW** 1/4 of **SE** 1/4 of Section **13**, T **7**, R **21E** | Long -- | ☐ N ☐ E<br>_____ Feet ☐ S _____ Feet ☐ W |

| Facility ID | County | County Code | Civil Town/City/Village |
|---|---|---|---|
| 241311510 | Milwaukee | 41 | Milwaukee |

| SAMPLE | | | | | | | | | | | SOIL PROPERTIES | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Type Length Attempt | Recovery (in) | Blow Counts | Depth (ft) | SOIL/ROCK VISUAL DESCRIPTION | USCS | Graphic Log | Well Diagram | PID/FID | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 | N Value RQD | Comments |
| | | | | 60 | | CL | | | | | | | | | | |
| 9/CB | CB | 60/60 | | 65 | (65') As above from 57-65 feet. | | | | | | | | | | | |
| | | | | | (68') 3/8-inch wet sand seam.<br>(68.5') 3/8-inch wet sand seam.<br>(69') 3/8-inch wet sand seam. | | | | | | | | | | | |
| | | | | 70 | (70') Boring terminated. | | | | | | | | | | | |

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

| Signature | Firm |
|---|---|
| | **Geosyntec Consultants, Inc.** |

**State of Wisconsin**
**Department of Natural Resources**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ] Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name: **Metro North Service Center** | Local Grid Location of Well: ft [ ] N. ft [ ] S. [ ] E. [ ] W. | Well Name: **MW-01-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]; Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID: **241311510** | St. Plane **393332.893** ft. N, **2515416.631** ft. E. (S) / C / N | Date Well Installed: **03/29/2022** |
| Type of Well; Well Code **11** / **mw** | Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. [ ] E. [ ] W. | Well Installed By: Name (first, last) and Firm: **Todd Schmalfelt**, **Cascade Drilling LP.** |
| Distance from Waste/Source ft; Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source: u [ ] Upgradient s [ ] Sidegradient; d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **695.77** ft. MSL
B. Well casing, top elevation **695.64** ft. MSL
C. Land surface elevation **695.97** ft. MSL
D. Surface seal, bottom **694.97** ft. MSL or **1** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

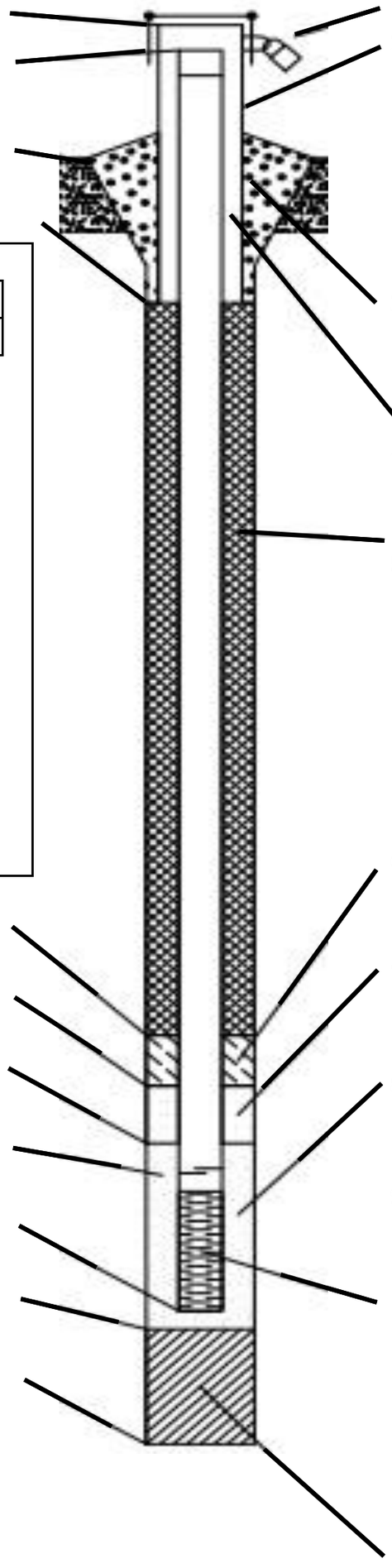
14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [ ] 02 Air [ ] 01 Drilling Mud [ ] 03 None [X] 99

16. Drilling additives used? [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):

E. Bentonite seal, top **694.97** ft. MSL or **1** ft.
F. Fine sand, top **--** ft. MSL or **--** ft.
G. Filter pack, top **691.97** ft. MSL or **4** ft.
H. Screen joint, top **690.97** ft. MSL or **5** ft.
I. Well bottom **680.97** ft. MSL or **15** ft.
J. Filter pack, bottom **680.97** ft. MSL or **15** ft.
K. Borehole, bottom **680.97** ft. MSL or **15** ft.
L. Borehole diameter **6** in.
M. O.D. well casing **2.36** in.
N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No
2. Protective cover pipe:
   a. Inside diameter: **12** in.
   b. Length: **1.5** in.
   c. Material: Steel [X] 04; Other [ ]
   d. Additional protection? [ ] Yes [X] No
   If yes, desrcibe:
3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]
4. Material between well casing and protective pipe: Bentonite [ ] 30; **Filter sand** Other [X]
5. Annular space seal: a. Granular/Chipped Bentonite [X] 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 [X] 08
6. Bentonite seal: a. Bentonite granules [ ] 33
   b. [ ] 1/4 in. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
   c. Other [ ]
7. Fine sand material: Manufacturer, product name & mesh size
   a. Other [ ]
   b. Volume added ____ $ft^3$
8. Filter pack material: Manufacturer, product name & mesh size
   a. **Red Flint Sand & Gravel** Other **40**
   b. Volume added **2** $ft^3$
9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]
10. Screen material: **PVC**
    a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
    b. Manufacturer: **Johnson Screens**
    c. Slot size: **0.010** in.
    d. Slotted length: **10.0** ft.
11. Backfill material (below filter pack): None [X] 01; Other [ ]

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

Signature | Firm: **Geosyntec Consultants**

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**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ] Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name: **Metro North Service Center** | Local Grid Location of Well: ft N. [ ] ft S. [ ] ft E. [ ] ft W. [ ] | Well Name: **MW-01I-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]; Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID: **241311510** | St. Plane **393332.978** ft. N, **2515412.177** ft. E. (S) / C / N | Date Well Installed: **03/29/2022** |
| Type of Well; Well Code **11** / **mw** | Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. E. [ ] W. [ ] | Well Installed By: Name (first, last) and Firm: **Todd Schmalfelt**, **Cascade Drilling LP.** |
| Distance from Waste/Source ft; Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source: u [ ] Upgradient s [ ] Sidegradient; d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **695.93** ft. MSL

B. Well casing, top elevation **695.43** ft. MSL

C. Land surface elevation **696.13** ft. MSL

D. Surface seal, bottom **694.13** ft. MSL or **2** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [X] 02 Air [ ] 01; Drilling Mud [ ] 03 None [ ] 99

16. Drilling additives used? [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):
**We Energies Facilities**

E. Bentonite seal, top **694.13** ft. MSL or **2** ft.

F. Fine sand, top **662.13** ft. MSL or **34** ft.

G. Filter pack, top **660.13** ft. MSL or **36** ft.

H. Screen joint, top **658.13** ft. MSL or **38** ft.

I. Well bottom **648.13** ft. MSL or **48** ft.

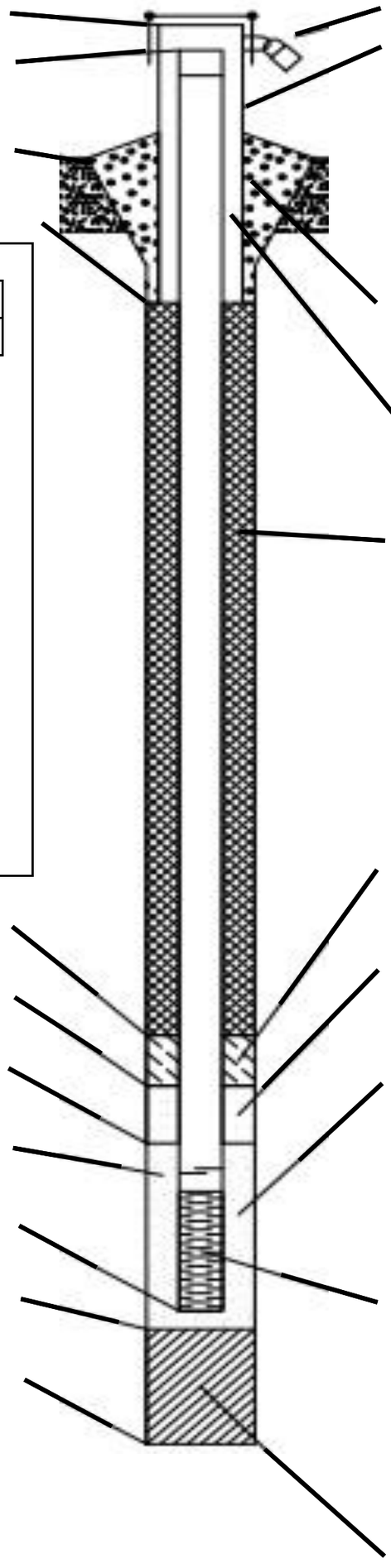
J. Filter pack, bottom **648.13** ft. MSL or **48** ft.

K. Borehole, bottom **648.13** ft. MSL or **48** ft.

L. Borehole diameter **6** in.

M. O.D. well casing **2.36** in.

N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No

2. Protective cover pipe:
a. Inside diameter: **12** in.
b. Length: **1.5** in.
c. Material: Steel [X] 04; Other [ ]
d. Additional protection? [ ] Yes [X] No
If yes, desrcibe:

3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]

4. Material between well casing and protective pipe:
Bentonite [ ] 30; **Filter sand** Other [X]

5. Annular space seal: a. Granular/Chipped Bentonite [X] 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. **4** $FT^3$ volume added for any of the above
f. ____ How installed: Tremie [ ] 01; Tremie pumped [ ] 02; Gravity [X] 08

6. Bentonite seal: a. Bentonite granules [ ] 33
b. [ ] 1/4 in. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
c. Other [ ]

7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **100**
b. Volume added **0.5** $ft^3$

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **40**
b. Volume added **2** $ft^3$

9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]

10. Screen material: **PVC**
a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.

11. Backfill material (below filter pack): None [X] 01; Other [ ]

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

Signature

Firm: **Geosyntec Consultants**

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**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ] Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name: **Metro North Service Center** | Local Grid Location of Well: ft [ ] N. ft [ ] S. [ ] E. [ ] W. | Well Name: **P-01-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]; Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID: **241311510** | St. Plane **393333.111** ft. N, **2515407.449** ft. E. (S) / C / N | Date Well Installed: **03/29/2022** |
| Type of Well; Well Code **12** / **pz** | Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. [ ] E. [ ] W. | Well Installed By: Name (first, last) and Firm: **Todd Schmalfelt**, **Cascade Drilling LP.** |
| Distance from Waste/Source ft; Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source: u [ ] Upgradient s [ ] Sidegradient; d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **696.12** ft. MSL

B. Well casing, top elevation **695.34** ft. MSL

C. Land surface elevation **696.12** ft. MSL

D. Surface seal, bottom **695.12** ft. MSL or **1** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [X] 02; Air [ ] 01; Drilling Mud [ ] 03; None [ ] 99

16. Drilling additives used? [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):
**We Energies Facilities**

E. Bentonite seal, top **643.12** ft. MSL or **53** ft.

F. Fine sand, top **640.12** ft. MSL or **56** ft.

G. Filter pack, top **638.12** ft. MSL or **58** ft.

H. Screen joint, top **636.12** ft. MSL or **60** ft.

I. Well bottom **631.12** ft. MSL or **65** ft.

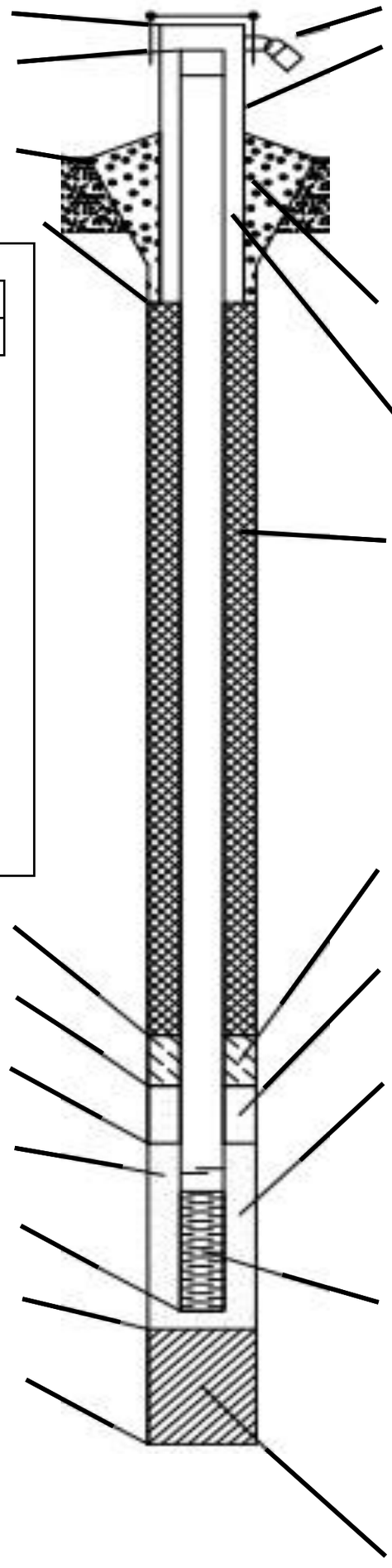
J. Filter pack, bottom **631.12** ft. MSL or **65** ft.

K. Borehole, bottom **631.12** ft. MSL or **65** ft.

L. Borehole diameter **6** in.

M. O.D. well casing **2.36** in.

N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No

2. Protective cover pipe:
a. Inside diameter: **12** in.
b. Length: **1.5** in.
c. Material: Steel [X] 04; Other [ ]
d. Additional protection? [ ] Yes [X] No
If yes, desrcibe:

3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]

4. Material between well casing and protective pipe: Bentonite [ ] 30; **Filter sand** Other [X]

5. Annular space seal: a. Granular/Chipped Bentonite [X] 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. **8** $FT^3$ volume added for any of the above
f. ____ How installed: Tremie [X] 01; Tremie pumped [ ] 02; Gravity [ ] 08

6. Bentonite seal: a. Bentonite granules [ ] 33
b. [ ] 1/4 in. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
c. Other [ ]

7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **100**
b. Volume added **0.5** $ft^3$

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **40**
b. Volume added **1** $ft^3$

9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]

10. Screen material: **PVC**
a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **5.0** ft.

11. Backfill material (below filter pack): None [X] 01; Other [ ]

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

Signature

Firm: **Geosyntec Consultants**

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**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ]
Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name<br>**Metro North Service Center** | Local Grid Location of Well ft [ ] N. [ ] S. ft [ ] E. [ ] W. | Well Name<br>**MW-02-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]<br>Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID<br>**241311510** | St. Plane **393338.899** ft. N, **2515589.206** ft. E. (S) / C / N | Date Well Installed<br>**04/05/2022** |
| Type of Well<br>Well Code **11** / **mw** | Section Location of Waste/Source<br>1/4 of 1/4 of Sec. T. N, R. [ ] E. [ ] W. | Well Installed By: Name (first, last) and Firm<br>**Kevin Smith**<br>**Cascade Drilling LP.** |
| Distance from Waste/ Source ft<br>Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source<br>u [ ] Upgradient s [ ] Sidegradient<br>d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **694.77** ft. MSL

B. Well casing, top elevation **694.53** ft. MSL

C. Land surface elevation **694.77** ft. MSL

D. Surface seal, bottom **693.77** ft. MSL or **1** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [ ] 02; Air [ ] 01; Drilling Mud [ ] 03; None [X] 99

16. Drilling additives used: [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):

E. Bentonite seal, top **693.77** ft. MSL or **1** ft.

F. Fine sand, top **691.27** ft. MSL or **3.5** ft.

G. Filter pack, top **689.77** ft. MSL or **5** ft.

H. Screen joint, top **687.77** ft. MSL or **7** ft.

I. Well bottom **677.77** ft. MSL or **17** ft.

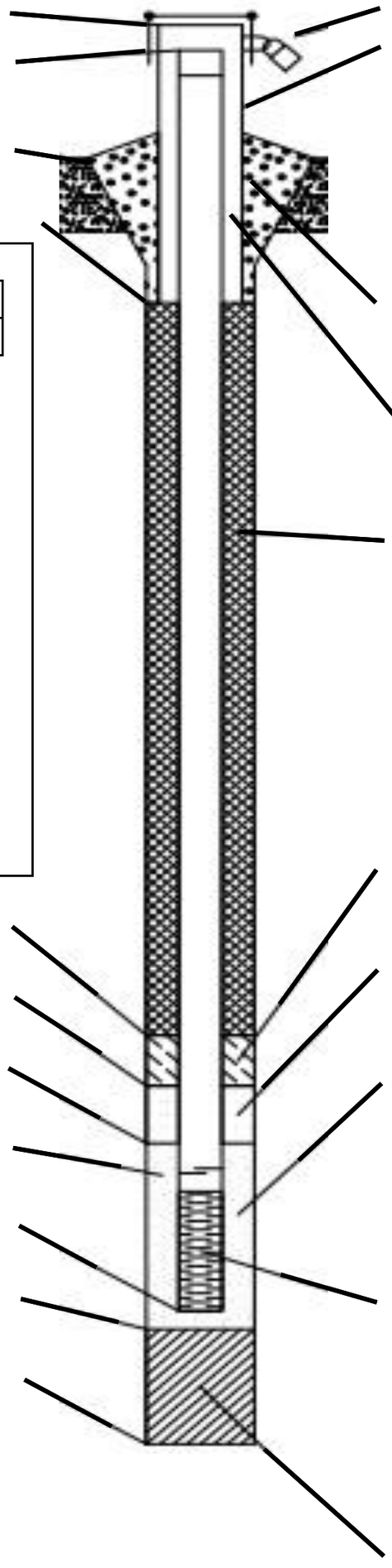
J. Filter pack, bottom **677.77** ft. MSL or **17** ft.

K. Borehole, bottom **677.77** ft. MSL or **17** ft.

L. Borehole diameter **6** in.

M. O.D. well casing **2.36** in.

N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No

2. Protective cover pipe:
a. Inside diameter: **12** in.
b. Length: **1.5** in.
c. Material: Steel [X] 04; Other [ ]
d. Additional protection? [ ] Yes [X] No
If yes, desrcibe:

3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]

4. Material between well casing and protective pipe:
Bentonite [ ] 30; **Filter sand** Other [X]

5. Annular space seal: a. Granular/Chipped Bentonite [X] 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. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
c. Other [ ]

7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **100**
b. Volume added **0.25** $ft^3$

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **40**
b. Volume added **2** $ft^3$

9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]

10. Screen material: **PVC**
a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.

11. Backfill material (below filter pack): None [X] 01; Other [ ]

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

Signature

Firm
**Geosyntec Consultants**

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**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ] Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name: **Metro North Service Center** | Local Grid Location of Well ft [ ] N. [ ] S. ft [ ] E. [ ] W. | Well Name: **MW-02I-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]; Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID: **241311510** | St. Plane **393338.734** ft. N, **2515584.109** ft. E. (S) / C / N | Date Well Installed: **04/05/2022** |
| Type of Well; Well Code **11** / **mw** | Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. [ ] E. [ ] W. | Well Installed By: Name (first, last) and Firm: **Kevin Smith**, **Cascade Drilling LP.** |
| Distance from Waste/Source ft; Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source: u [ ] Upgradient s [ ] Sidegradient; d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **694.90** ft. MSL

B. Well casing, top elevation **694.49** ft. MSL

C. Land surface elevation **694.90** ft. MSL

D. Surface seal, bottom **693.40** ft. MSL or **1.5** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [X] 02; Air [ ] 01; Drilling Mud [ ] 03; None [ ] 99

16. Drilling additives used? [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):
**We Energies Facilities**

E. Bentonite seal, top **661.90** ft. MSL or **33** ft.

F. Fine sand, top **658.90** ft. MSL or **36** ft.

G. Filter pack, top **656.90** ft. MSL or **38** ft.

H. Screen joint, top **654.90** ft. MSL or **40** ft.

I. Well bottom **644.90** ft. MSL or **50** ft.

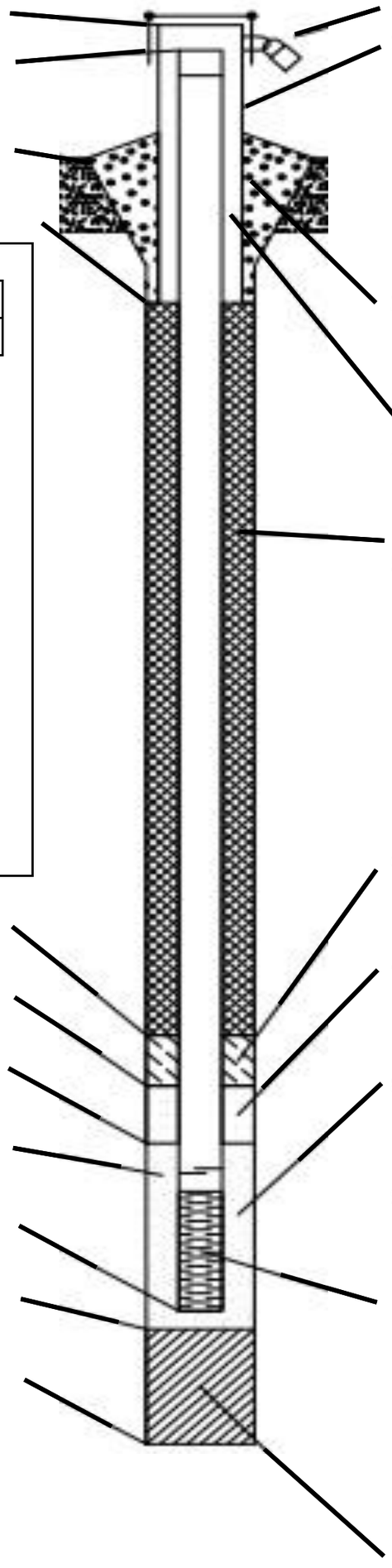
J. Filter pack, bottom **644.90** ft. MSL or **50** ft.

K. Borehole, bottom **644.90** ft. MSL or **50** ft.

L. Borehole diameter **6** in.

M. O.D. well casing **2.36** in.

N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No

2. Protective cover pipe:
a. Inside diameter: **12** in.
b. Length: **1.5** in.
c. Material: Steel [X] 04; Other [ ]
d. Additional protection? [ ] Yes [X] No
If yes, desrcibe:

3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]

4. Material between well casing and protective pipe: Bentonite [ ] 30; **Filter sand** Other [X]

5. Annular space seal: a. Granular/Chipped Bentonite [X] 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. **5** $FT^3$ volume added for any of the above
f. ____ How installed: Tremie [ ] 01; Tremie pumped [ ] 02; Gravity [X] 08

6. Bentonite seal: a. Bentonite granules [ ] 33
b. [ ] 1/4 in. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
c. Other [ ]

7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **100**
b. Volume added **0.75** $ft^3$

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **40**
b. Volume added **2** $ft^3$

9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]

10. Screen material: **PVC**
a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.

11. Backfill material (below filter pack): None [X] 01; Other [ ]

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

Signature

Firm: **Geosyntec Consultants**

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**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ] Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name: **Metro North Service Center** | Local Grid Location of Well: ft [ ] N. ft [ ] S. [ ] E. [ ] W. | Well Name: **MW-03-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]; Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID: **241311510** | St. Plane **393323.668** ft. N, **2515265.011** ft. E. (S) / C / N | Date Well Installed: **04/07/2022** |
| Type of Well; Well Code **11** / **mw** | Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. [ ] E. [ ] W. | Well Installed By: Name (first, last) and Firm: **Kevin Smith**, **Cascade Drilling LP.** |
| Distance from Waste/Source ft; Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source: u [ ] Upgradient s [ ] Sidegradient; d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **696.87** ft. MSL

B. Well casing, top elevation **696.34** ft. MSL

C. Land surface elevation **696.87** ft. MSL

D. Surface seal, bottom **695.37** ft. MSL or **1.5** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [ ] 02 Air [ ] 01 Drilling Mud [ ] 03 None [X] 99

16. Drilling additives used: [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):

E. Bentonite seal, top **695.37** ft. MSL or **1.5** ft.

F. Fine sand, top **691.87** ft. MSL or **5** ft.

G. Filter pack, top **690.87** ft. MSL or **6** ft.

H. Screen joint, top **689.87** ft. MSL or **7** ft.

I. Well bottom **679.87** ft. MSL or **17** ft.

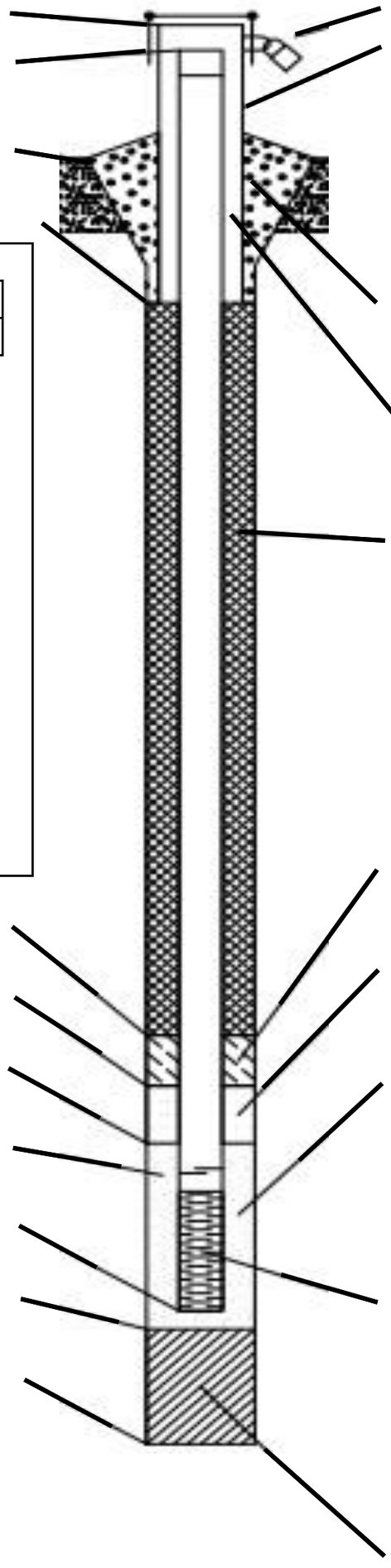
J. Filter pack, bottom **679.87** ft. MSL or **17** ft.

K. Borehole, bottom **679.87** ft. MSL or **17** ft.

L. Borehole diameter **6** in.

M. O.D. well casing **2.36** in.

N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No

2. Protective cover pipe:
a. Inside diameter: **12** in.
b. Length: **1.5** in.
c. Material: Steel [X] 04; Other [ ]
d. Additional protection? [ ] Yes [X] No
If yes, desrcibe:

3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]

4. Material between well casing and protective pipe: Bentonite [ ] 30; **Filter sand** Other [X]

5. Annular space seal: a. Granular/Chipped Bentonite [X] 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. **0.6** $FT^3$ volume added for any of the above
f. ____ How installed: Tremie [ ] 01; Tremie pumped [ ] 02; Gravity [X] 08

6. Bentonite seal: a. Bentonite granules [ ] 33
b. [ ] 1/4 in. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
c. Other [ ]

7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **60**
b. Volume added **0.25** $ft^3$

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **40**
b. Volume added **2** $ft^3$

9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]

10. Screen material: **PVC**
a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.

11. Backfill material (below filter pack): None [X] 01; Other [ ]

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

Signature | Firm: **Geosyntec Consultants**

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**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ] Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name: **Metro North Service Center** | Local Grid Location of Well: ft [ ] N. ft [ ] S. [ ] E. [ ] W. | Well Name: **MW-03I-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]; Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID: **241311510** | St. Plane **393319.708** ft. N, **2515264.745** ft. E. (S) / C / N | Date Well Installed: **04/06/2022** |
| Type of Well; Well Code **11** / **mw** | Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. [ ] E. [ ] W. | Well Installed By: Name (first, last) and Firm: **Kevin Smith**, **Cascade Drilling LP.** |
| Distance from Waste/Source ft; Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source: u [ ] Upgradient s [ ] Sidegradient; d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **696.97** ft. MSL

B. Well casing, top elevation **696.45** ft. MSL

C. Land surface elevation **696.97** ft. MSL

D. Surface seal, bottom **695.97** ft. MSL or **1** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [X] 02; Air [ ] 01; Drilling Mud [ ] 03; None [ ] 99

16. Drilling additives used? [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):
**We Energies Facilities**

E. Bentonite seal, top **661.97** ft. MSL or **35** ft.

F. Fine sand, top **658.97** ft. MSL or **38** ft.

G. Filter pack, top **656.47** ft. MSL or **40.5** ft.

H. Screen joint, top **653.97** ft. MSL or **43** ft.

I. Well bottom **643.97** ft. MSL or **53** ft.

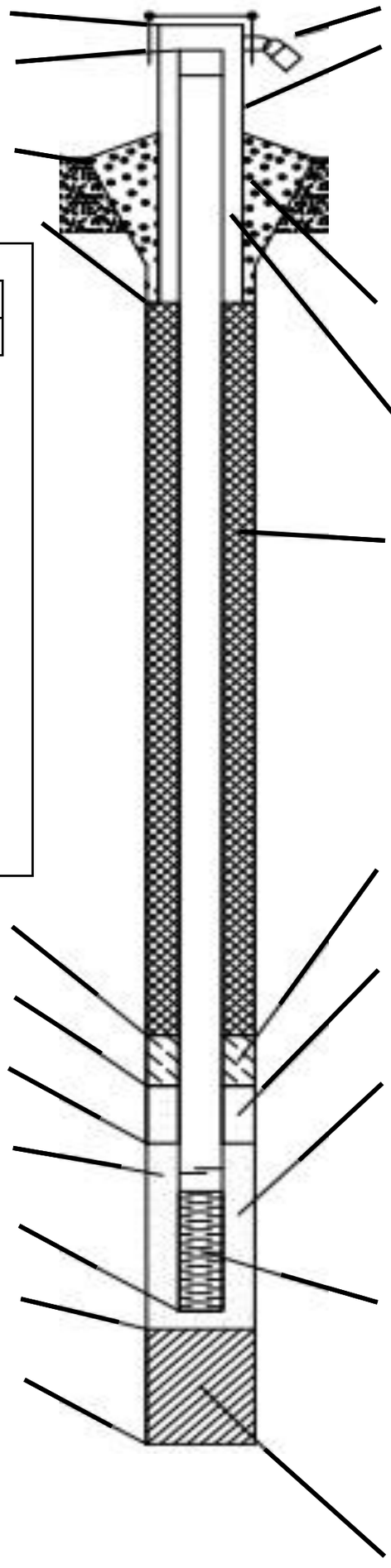
J. Filter pack, bottom **641.97** ft. MSL or **55** ft.

K. Borehole, bottom **641.97** ft. MSL or **55** ft.

L. Borehole diameter **6** in.

M. O.D. well casing **2.36** in.

N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No

2. Protective cover pipe:
a. Inside diameter: **12** in.
b. Length: **1.5** in.
c. Material: Steel [X] 04; Other [ ]
d. Additional protection? [ ] Yes [X] No
If yes, desrcibe:

3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]

4. Material between well casing and protective pipe: Bentonite [ ] 30; **Filter sand** Other [X]

5. Annular space seal: a. Granular/Chipped Bentonite [X] 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. **6** $FT^3$ volume added for any of the above
f. ____ How installed: Tremie [ ] 01; Tremie pumped [ ] 02; Gravity [X] 08

6. Bentonite seal: a. Bentonite granules [ ] 33
b. [ ] 1/4 in. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
c. Other [ ]

7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **100**
b. Volume added **0.5** $ft^3$

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **40**
b. Volume added **2.4** $ft^3$

9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]

10. Screen material: **PVC**
a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.

11. Backfill material (below filter pack): None [ ] 01; **Filter sand** Other [X]

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

Signature: [signature] Firm: **Geosyntec Consultants**

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**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ] Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name: **Metro North Service Center** | Local Grid Location of Well: ft N. [ ] S. [ ] ft E. [ ] W. [ ] | Well Name: **MW-04-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]; Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID: **241311510** | St. Plane **393531.796** ft. N, **2515454.096** ft. E. (S) / C / N | Date Well Installed: **04/04/2022** |
| Type of Well; Well Code **11** / **mw** | Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. E. [ ] W. [ ] | Well Installed By: Name (first, last) and Firm: **Kevin Smith**, **Cascade Drilling LP.** |
| Distance from Waste/Source ft; Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source: u [ ] Upgradient s [ ] Sidegradient; d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **697.30** ft. MSL
B. Well casing, top elevation **696.79** ft. MSL
C. Land surface elevation **697.30** ft. MSL
D. Surface seal, bottom **696.30** ft. MSL or **1** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

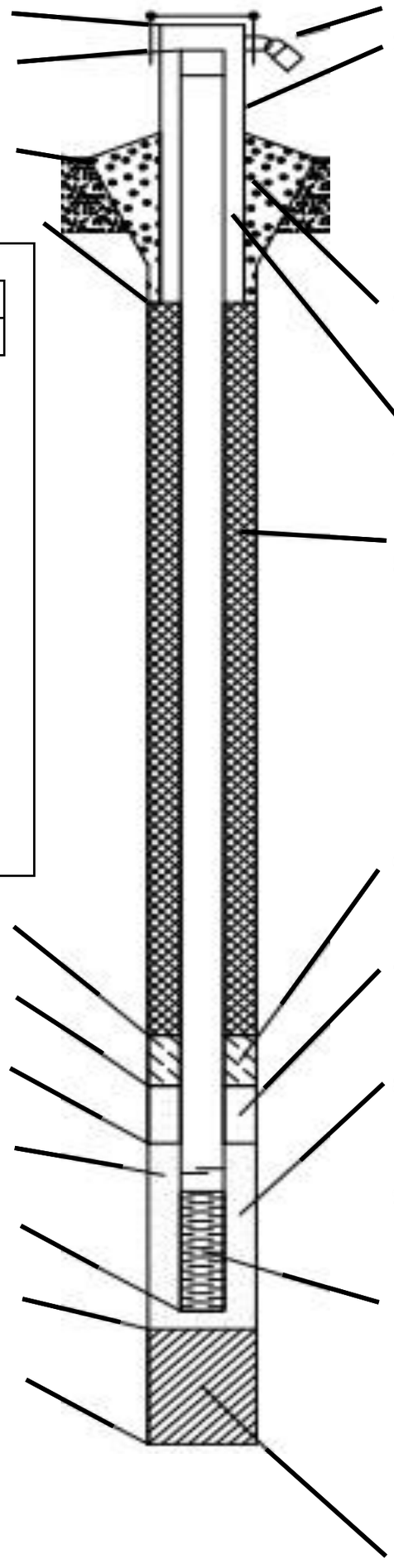
14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [ ] 02 Air [ ] 01; Drilling Mud [ ] 03 None [X] 99

16. Drilling additives used? [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):

E. Bentonite seal, top **696.30** ft. MSL or **1** ft.
F. Fine sand, top **691.30** ft. MSL or **6** ft.
G. Filter pack, top **689.30** ft. MSL or **8** ft.
H. Screen joint, top **687.30** ft. MSL or **10** ft.
I. Well bottom **677.30** ft. MSL or **20** ft.
J. Filter pack, bottom **677.30** ft. MSL or **20** ft.
K. Borehole, bottom **677.30** ft. MSL or **20** ft.
L. Borehole diameter **6** in.
M. O.D. well casing **2.36** in.
N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No
2. Protective cover pipe:
   a. Inside diameter: **12** in.
   b. Length: **1.5** in.
   c. Material: Steel [X] 04; Other [ ]
   d. Additional protection? [ ] Yes [X] No
   If yes, desrcibe:
3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]
4. Material between well casing and protective pipe: Bentonite [ ] 30; **Filter sand** Other [X]
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. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
   c. Other [ ]
7. Fine sand material: Manufacturer, product name & mesh size
   a. **Red Flint Sand & Gravel** Other **100**
   b. Volume added **0.25** $ft^3$
8. Filter pack material: Manufacturer, product name & mesh size
   a. **Red Flint Sand & Gravel** Other **40**
   b. Volume added **2** $ft^3$
9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]
10. Screen material: **PVC**
    a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
    b. Manufacturer: **Johnson Screens**
    c. Slot size: **0.010** in.
    d. Slotted length: **10.0** ft.
11. Backfill material (below filter pack): None [ ] 01; **Filter sand** Other [X]

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

Signature

Firm: **Geosyntec Consultants**

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**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ]
Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name: **Metro North Service Center** | Local Grid Location of Well: ft [ ] N. ft [ ] S. [ ] E. [ ] W. | Well Name: **MW-04I-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]<br>Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID: **241311510** | St. Plane **393535.588** ft. N, **2515454.522** ft. E. (S) / C / N | Date Well Installed: **04/01/2022** |
| Type of Well<br>Well Code **11** / **mw** | Section Location of Waste/Source<br>1/4 of 1/4 of Sec. T. N, R. [ ] E. [ ] W. | Well Installed By: Name (first, last) and Firm<br>**Todd Schmalfelt**<br>**Cascade Drilling LP.** |
| Distance from Waste/ Source ft / Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source<br>u [ ] Upgradient s [ ] Sidegradient<br>d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **697.10** ft. MSL

B. Well casing, top elevation **696.50** ft. MSL

C. Land surface elevation **697.10** ft. MSL

D. Surface seal, bottom **696.10** ft. MSL or **1** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [X] 02; Air [ ] 01; Drilling Mud [ ] 03; None [ ] 99

16. Drilling additives used? [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):
**We Energies Facilities**

E. Bentonite seal, top **662.10** ft. MSL or **35** ft.

F. Fine sand, top **659.10** ft. MSL or **38** ft.

G. Filter pack, top **657.10** ft. MSL or **40** ft.

H. Screen joint, top **655.10** ft. MSL or **42** ft.

I. Well bottom **645.10** ft. MSL or **52** ft.

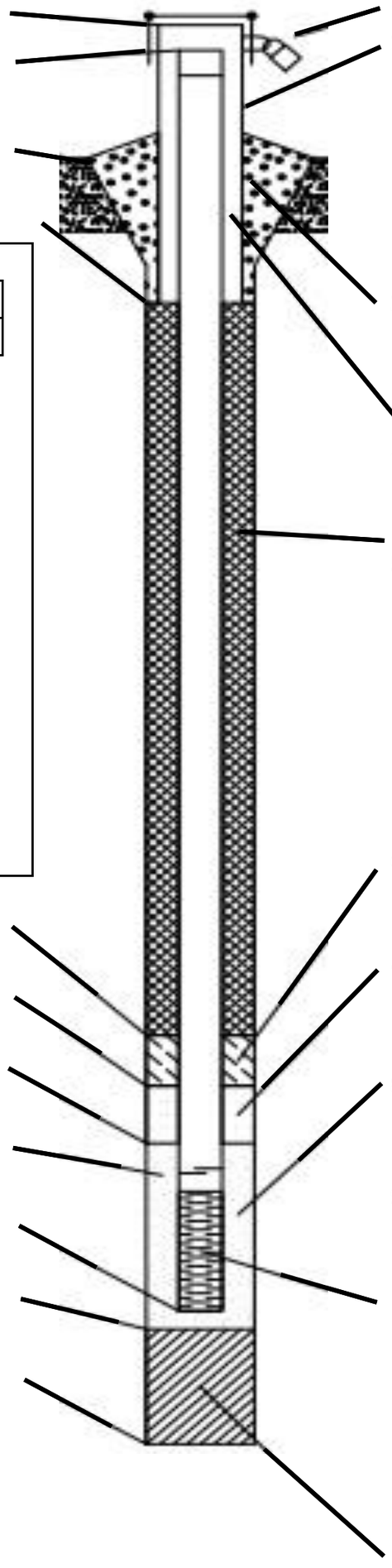
J. Filter pack, bottom **642.10** ft. MSL or **55** ft.

K. Borehole, bottom **642.10** ft. MSL or **55** ft.

L. Borehole diameter **6** in.

M. O.D. well casing **2.36** in.

N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No

2. Protective cover pipe:
a. Inside diameter: **12** in.
b. Length: **1.5** in.
c. Material: Steel [X] 04; Other [ ]
d. Additional protection? [ ] Yes [X] No
If yes, desrcibe:

3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]

4. Material between well casing and protective pipe:
Bentonite [ ] 30; **Filter sand** Other [X]

5. Annular space seal: a. Granular/Chipped Bentonite [X] 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. **6** $FT^3$ volume added for any of the above
f. ____ How installed: Tremie [ ] 01; Tremie pumped [ ] 02; Gravity [X] 08

6. Bentonite seal: a. Bentonite granules [ ] 33
b. [ ] 1/4 in. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
c. Other [ ]

7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **100**
b. Volume added **0.5** $ft^3$

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **40**
b. Volume added **2.5** $ft^3$

9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]

10. Screen material: **PVC**
a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.

11. Backfill material (below filter pack): None [ ] 01; **Filter sand** Other [X]

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

Signature

Firm: **Geosyntec Consultants**

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**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ]
Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name: **Metro North Service Center** | Local Grid Location of Well: ft N. [ ] ft S. [ ] ft E. [ ] ft W. [ ] | Well Name: **MW-05-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]<br>Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID: **241311510** | St. Plane **393471.451** ft. N, **2515568.963** ft. E. (S) / C / N | Date Well Installed: **04/12/2022** |
| Type of Well<br>Well Code **11** / **mw** | Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. E. [ ] W. [ ] | Well Installed By: Name (first, last) and Firm<br>**Kevin Smith**<br>**Cascade Drilling LP.** |
| Distance from Waste/Source ft; Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source: u [ ] Upgradient s [ ] Sidegradient d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **690.49** ft. MSL

B. Well casing, top elevation **690.00** ft. MSL

C. Land surface elevation **690.49** ft. MSL

D. Surface seal, bottom **689.49** ft. MSL or **1** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [ ] 02 Air [ ] 01 Drilling Mud [ ] 03 None [X] 99

16. Drilling additives used? [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):

E. Bentonite seal, top **689.49** ft. MSL or **1** ft.

F. Fine sand, top **685.49** ft. MSL or **5** ft.

G. Filter pack, top **684.49** ft. MSL or **6** ft.

H. Screen joint, top **683.49** ft. MSL or **7** ft.

I. Well bottom **673.49** ft. MSL or **17** ft.

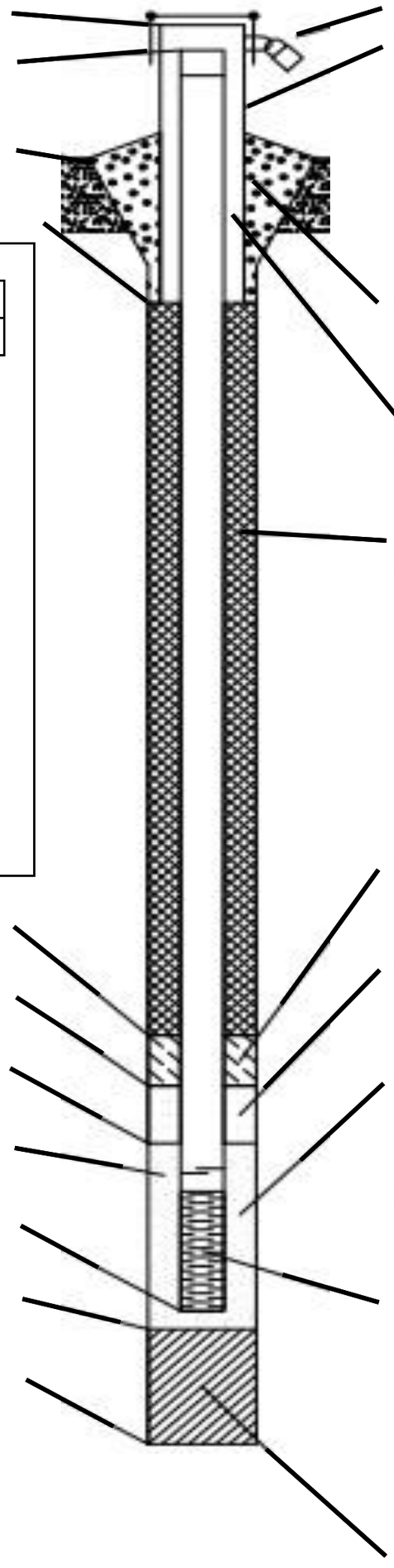
J. Filter pack, bottom **673.49** ft. MSL or **17** ft.

K. Borehole, bottom **673.49** ft. MSL or **17** ft.

L. Borehole diameter **6** in.

M. O.D. well casing **2.36** in.

N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No

2. Protective cover pipe:
a. Inside diameter: **12** in.
b. Length: **1.5** in.
c. Material: Steel [X] 04; Other [ ]
d. Additional protection? [ ] Yes [X] No
If yes, desrcibe:

3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]

4. Material between well casing and protective pipe:
Bentonite [ ] 30; **Filter sand** Other [X]

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. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
c. Other [ ]

7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **60**
b. Volume added **0.2** $ft^3$

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **40**
b. Volume added **1.75** $ft^3$

9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]

10. Screen material: **PVC**
a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.

11. Backfill material (below filter pack): None [X] 01; Other [ ]

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

Signature

Firm
**Geosyntec Consultants**

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**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ] Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name: **Metro North Service Center** | Local Grid Location of Well ft N. [ ] S. ft E. [ ] W. | Well Name: **MW-05I-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]; Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID: **241311510** | St. Plane **393467.192** ft. N, **2515569.058** ft. E. (S) / C / N | Date Well Installed: **04/12/2022** |
| Type of Well; Well Code **11** / **mw** | Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. E. [ ] W. [ ] | Well Installed By: Name (first, last) and Firm: **Kevin Smith**, **Cascade Drilling LP.** |
| Distance from Waste/Source ft; Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source: u [ ] Upgradient s [ ] Sidegradient; d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **690.49** ft. MSL
B. Well casing, top elevation **690.11** ft. MSL
C. Land surface elevation **690.49** ft. MSL
D. Surface seal, bottom **689.49** ft. MSL or **1** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

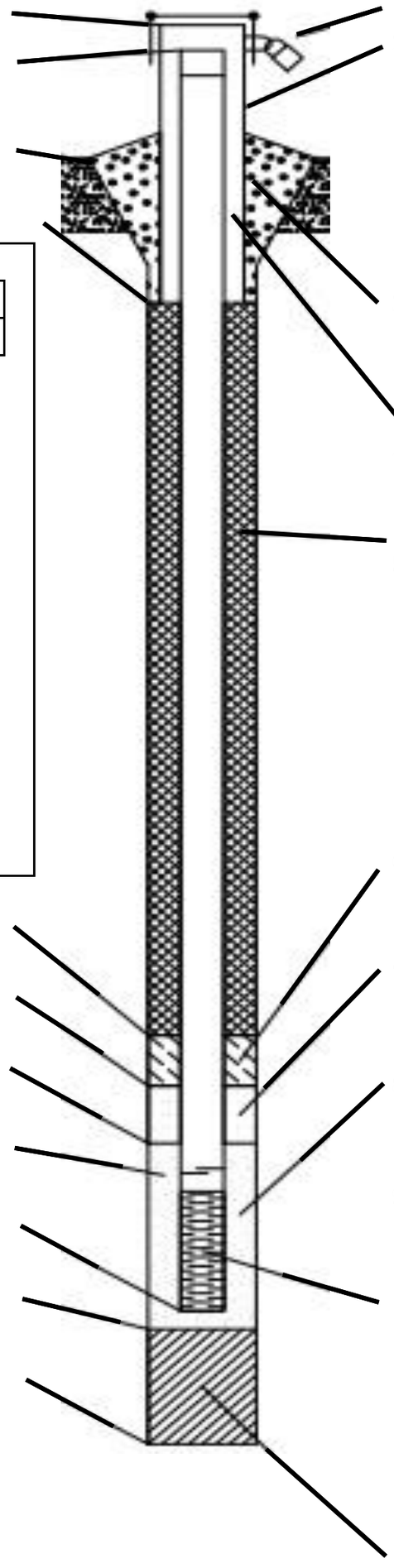
14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [X] 02; Air [ ] 01; Drilling Mud [ ] 03; None [ ] 99

16. Drilling additives used? [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):
**We Energies Facilities**

E. Bentonite seal, top **661.99** ft. MSL or **28.5** ft.
F. Fine sand, top **658.99** ft. MSL or **31.5** ft.
G. Filter pack, top **656.49** ft. MSL or **34** ft.
H. Screen joint, top **654.49** ft. MSL or **36** ft.
I. Well bottom **644.49** ft. MSL or **46** ft.
J. Filter pack, bottom **644.49** ft. MSL or **46** ft.
K. Borehole, bottom **644.49** ft. MSL or **46** ft.
L. Borehole diameter **6** in.
M. O.D. well casing **2.36** in.
N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No
2. Protective cover pipe:
a. Inside diameter: **12** in.
b. Length: **1.5** in.
c. Material: Steel [X] 04; Other [ ]
d. Additional protection? [ ] Yes [X] No
If yes, desrcibe:
3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]
4. Material between well casing and protective pipe: Bentonite [ ] 30; **Filter sand** Other [X]
5. Annular space seal: a. Granular/Chipped Bentonite [X] 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. **5** $FT^3$ volume added for any of the above
f. ____ How installed: Tremie [ ] 01; Tremie pumped [ ] 02; Gravity [X] 08
6. Bentonite seal: a. Bentonite granules [ ] 33
b. [ ] 1/4 in. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
c. Other [ ]
7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **100**
b. Volume added **0.5** $ft^3$
8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **40**
b. Volume added **2** $ft^3$
9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]
10. Screen material: **PVC**
a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.
11. Backfill material (below filter pack): None [X] 01; Other [ ]

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

Signature | Firm: **Geosyntec Consultants**

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**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ] Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name: **Metro North Service Center** | Local Grid Location of Well: ft [ ] N. ft [ ] S. [ ] E. [ ] W. | Well Name: **P-05-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]; Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID: **241311510** | St. Plane **393462.506** ft. N, **2515569.202** ft. E. (S) / C / N | Date Well Installed: **04/08/2022** |
| Type of Well; Well Code **12** / **pz** | Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. [ ] E. [ ] W. | Well Installed By: Name (first, last) and Firm: **Kevin Smith**, **Cascade Drilling LP.** |
| Distance from Waste/Source ft; Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source: u [ ] Upgradient s [ ] Sidegradient; d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **690.49** ft. MSL
B. Well casing, top elevation **690.05** ft. MSL
C. Land surface elevation **690.49** ft. MSL
D. Surface seal, bottom **689.49** ft. MSL or **1** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

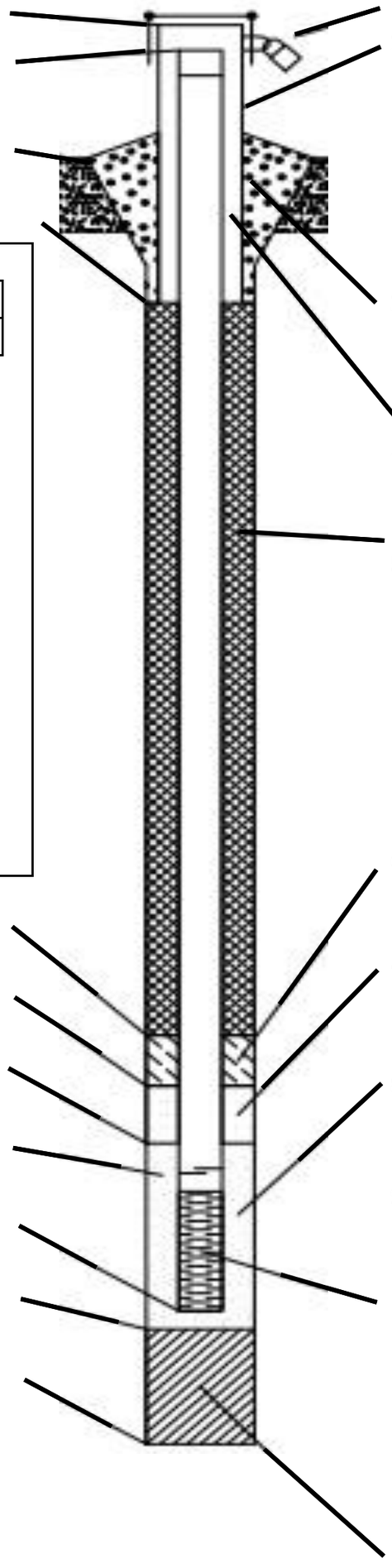
14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [X] 02; Air [ ] 01; Drilling Mud [ ] 03; None [ ] 99

16. Drilling additives used? [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):
**We Energies Facilities**

E. Bentonite seal, top **642.49** ft. MSL or **48** ft.
F. Fine sand, top **639.49** ft. MSL or **51** ft.
G. Filter pack, top **636.49** ft. MSL or **54** ft.
H. Screen joint, top **634.49** ft. MSL or **56** ft.
I. Well bottom **629.49** ft. MSL or **61** ft.
J. Filter pack, bottom **625.49** ft. MSL or **65** ft.
K. Borehole, bottom **625.49** ft. MSL or **65** ft.
L. Borehole diameter **6** in.
M. O.D. well casing **2.36** in.
N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No
2. Protective cover pipe:
a. Inside diameter: **12** in.
b. Length: **1.5** in.
c. Material: Steel [X] 04; Other [ ]
d. Additional protection? [ ] Yes [X] No
If yes, desrcibe:
3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]
4. Material between well casing and protective pipe: Bentonite [ ] 30; **Filter sand** Other [X]
5. Annular space seal: a. Granular/Chipped Bentonite [X] 33
b. ____ Lbs/gal mud weight... Bentonite sand-slurry [ ] 35
c. ____ Lbs/gal mud weight... Bentonite slurry [X] 31
d. ____ % Bentonite... Bentonite-cement grout [ ] 50
e. **6** $FT^3$ volume added for any of the above
f. ____ How installed: Tremie [X] 01; Tremie pumped [ ] 02; Gravity [ ] 08
6. Bentonite seal: a. Bentonite granules [ ] 33
b. [ ] 1/4 in. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
c. Other [ ]
7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **100**
b. Volume added **0.5** $ft^3$
8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **40**
b. Volume added **1** $ft^3$
9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]
10. Screen material: **PVC**
a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **5.0** ft.
11. Backfill material (below filter pack): None [ ] 01; **Filter sand** Other [X]

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

Signature | Firm: **Geosyntec Consultants**

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**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ]
Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name: **Metro North Service Center** | Local Grid Location of Well: ft [ ] N. ft [ ] S. [ ] E. [ ] W. | Well Name: **MW-06-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]; Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID: **241311510** | St. Plane **393542.966** ft. N, **2515669.362** ft. E. (S) / C / N | Date Well Installed: **03/31/2022** |
| Type of Well; Well Code **11** / **mw** | Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. [ ] E. [ ] W. | Well Installed By: Name (first, last) and Firm: **Todd Schmalfelt**, **Cascade Drilling LP.** |
| Distance from Waste/Source ft; Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source: u [ ] Upgradient s [ ] Sidegradient; d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **690.66** ft. MSL
B. Well casing, top elevation **690.19** ft. MSL
C. Land surface elevation **690.66** ft. MSL
D. Surface seal, bottom **689.66** ft. MSL or **1** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

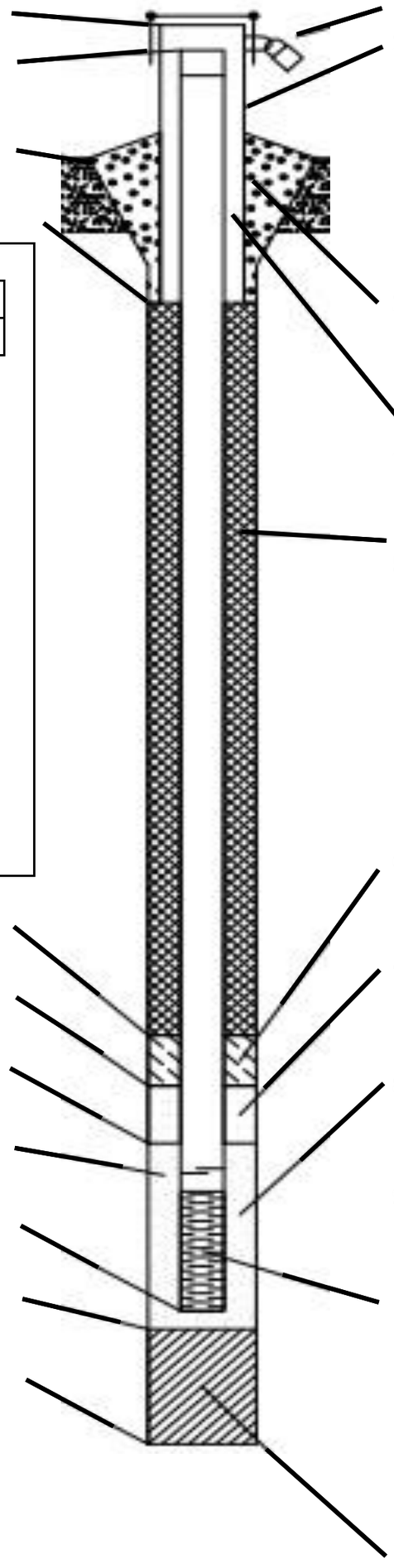
14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [ ] 02 Air [ ] 01; Drilling Mud [ ] 03 None [X] 99

16. Drilling additives used: [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):

E. Bentonite seal, top **689.66** ft. MSL or **1** ft.
F. Fine sand, top **686.66** ft. MSL or **4** ft.
G. Filter pack, top **685.66** ft. MSL or **5** ft.
H. Screen joint, top **684.66** ft. MSL or **6** ft.
I. Well bottom **674.66** ft. MSL or **16** ft.
J. Filter pack, bottom **674.66** ft. MSL or **16** ft.
K. Borehole, bottom **674.66** ft. MSL or **16** ft.
L. Borehole diameter **6** in.
M. O.D. well casing **2.36** in.
N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No
2. Protective cover pipe:
a. Inside diameter: **12** in.
b. Length: **1.5** in.
c. Material: Steel [X] 04; Other [ ]
d. Additional protection? [ ] Yes [X] No
If yes, desrcibe:
3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]
4. Material between well casing and protective pipe: Bentonite [ ] 30; **Filter sand** Other [X]
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. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
c. Other [ ]
7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **100**
b. Volume added **0.1** $ft^3$
8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **40**
b. Volume added **1.5** $ft^3$
9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]
10. Screen material: **PVC**
a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.
11. Backfill material (below filter pack): None [X] 01; Other [ ]

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

Signature | Firm: **Geosyntec Consultants**

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**State of Wisconsin**
**Department of Natural Resources**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ]
Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name: **Metro North Service Center** | Local Grid Location of Well: ft N. [ ] S. ft [ ] E. [ ] W. | Well Name: **MW-06I-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]; Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID: **241311510** | St. Plane **393548.702** ft. N, **2515669.271** ft. E. (S) / C / N | Date Well Installed: **03/31/2022** |
| Type of Well; Well Code **11** / **mw** | Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. [ ] E. [ ] W. | Well Installed By: Name (first, last) and Firm: **Todd Schmalfelt**, **Cascade Drilling LP.** |
| Distance from Waste/Source ft; Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source: u [ ] Upgradient s [ ] Sidegradient; d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **690.68** ft. MSL
B. Well casing, top elevation **690.22** ft. MSL
C. Land surface elevation **690.68** ft. MSL
D. Surface seal, bottom **689.68** ft. MSL or **1** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

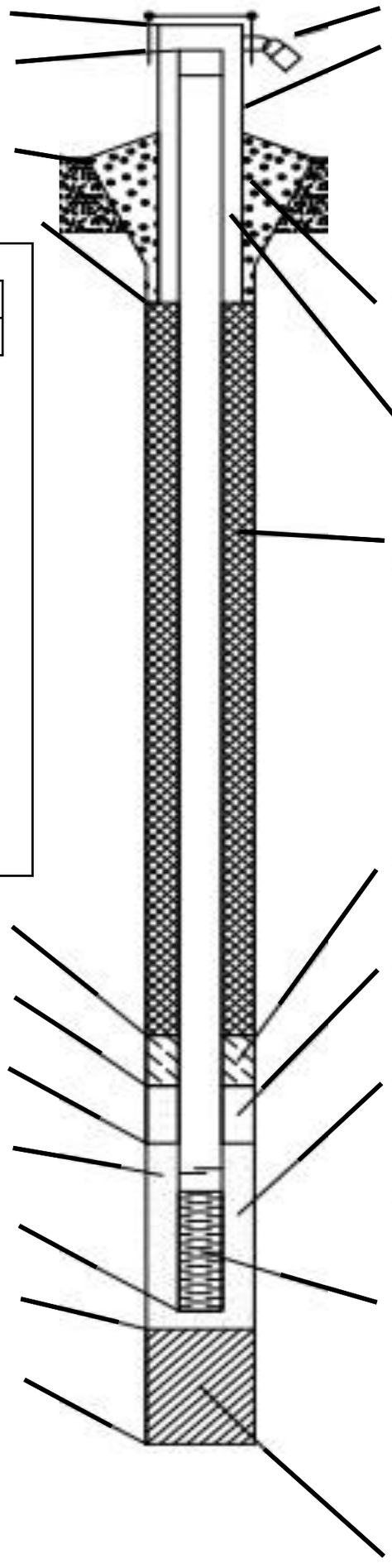
14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [X] 02; Air [ ] 01; Drilling Mud [ ] 03; None [ ] 99

16. Drilling additives used? [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):
**We Energies Facilities**

E. Bentonite seal, top **659.68** ft. MSL or **31** ft.
F. Fine sand, top **656.68** ft. MSL or **34** ft.
G. Filter pack, top **654.68** ft. MSL or **36** ft.
H. Screen joint, top **652.68** ft. MSL or **38** ft.
I. Well bottom **642.68** ft. MSL or **48** ft.
J. Filter pack, bottom **640.68** ft. MSL or **50** ft.
K. Borehole, bottom **640.68** ft. MSL or **50** ft.
L. Borehole diameter **6** in.
M. O.D. well casing **2.36** in.
N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No
2. Protective cover pipe:
a. Inside diameter: **12** in.
b. Length: **1.5** in.
c. Material: Steel [X] 04; Other [ ]
d. Additional protection? [ ] Yes [X] No
If yes, desrcibe:
3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]
4. Material between well casing and protective pipe: Bentonite [ ] 30; **Filter sand** Other [X]
5. Annular space seal: a. Granular/Chipped Bentonite [X] 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. **5** $FT^3$ volume added for any of the above
f. ____ How installed: Tremie [ ] 01; Tremie pumped [ ] 02; Gravity [X] 08
6. Bentonite seal: a. Bentonite granules [ ] 33
b. [ ] 1/4 in. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
c. Other [ ]
7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **100**
b. Volume added **0.25** $ft^3$
8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **40**
b. Volume added **2** $ft^3$
9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]
10. Screen material: **PVC**
a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.
11. Backfill material (below filter pack): None [ ] 01; **Filter sand** Other [X]

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

Signature: 
Firm: **Geosyntec Consultants**

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**State of Wisconsin**
**Department of Natural Resources**

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

Route to: Watershed/Wastewater [ ] Waste Management [ ]
Remediation/Redevelopment [X] Other [ ]

| | | |
|---|---|---|
| Facility/Project Name: **Metro North Service Center** | Local Grid Location of Well: ft [ ] N. ft [ ] S. [ ] E. [ ] W. | Well Name: **P-06-22** |
| Facility License, Permit or Monitoring No. | Local Grid Origin [ ] (estimated: [ ]) or Well Location [X]; Lat. Long. or | Wis. Unique Well No. DNR Well ID No. |
| Facility ID: **241311510** | St. Plane **393555.525** ft. N, **2515669.024** ft. E. (S) / C / N | Date Well Installed: **03/30/2022** |
| Type of Well; Well Code **12** / **pz** | Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. [ ] E. [ ] W. | Well Installed By: Name (first, last) and Firm: **Todd Schmalfelt**, **Cascade Drilling LP.** |
| Distance from Waste/Source ft; Enf. Stds. Apply [ ] | Location of Well Relative to Well/Source: u [ ] Upgradient s [ ] Sidegradient; d [ ] Downgradient n [ ] Not Known | Gov. Lot Number |

A. Protective pipe, top elevation **690.69** ft. MSL
B. Well casing, top elevation **690.36** ft. MSL
C. Land surface elevation **690.69** ft. MSL
D. Surface seal, bottom **689.69** ft. MSL or **1** ft.

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

13. Sieve analysis performed? [X] Yes [ ] No

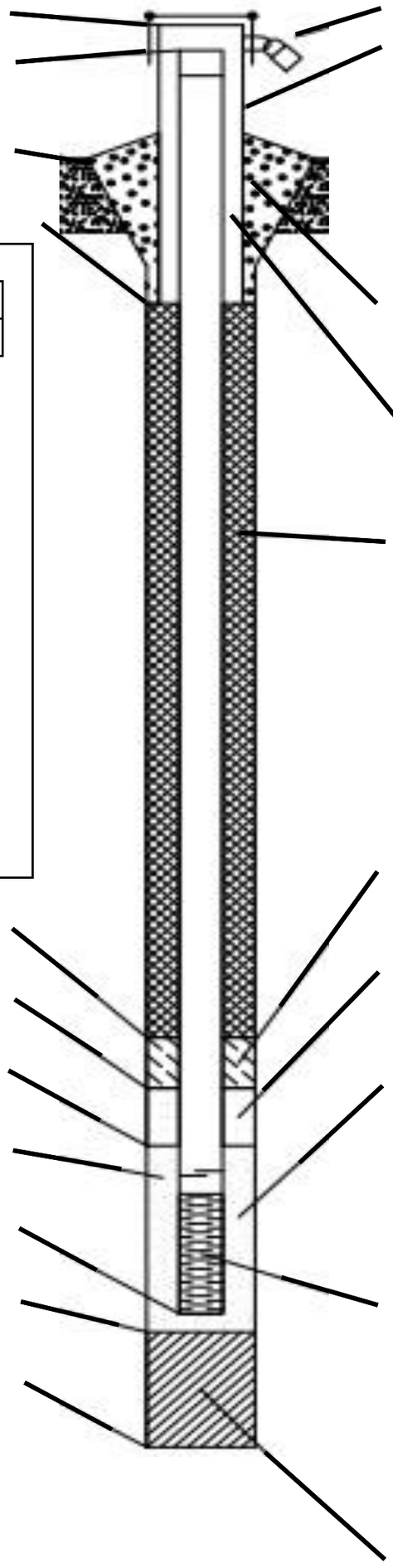
14. Drilling method used: Rotary [ ] 50; Hollow stem auger [ ] 41; **Sonic** Other [X]

15. Drilling fluid used: Water [X] 02; Air [ ] 01; Drilling Mud [ ] 03; None [ ] 99

16. Drilling additives used: [ ] Yes [X] No
Describe

17. Source of water (attach analysis, if required):
**We Energies Facilities**

E. Bentonite seal, top **633.19** ft. MSL or **57.5** ft.
F. Fine sand, top **629.69** ft. MSL or **61** ft.
G. Filter pack, top **627.69** ft. MSL or **63** ft.
H. Screen joint, top **625.69** ft. MSL or **65** ft.
I. Well bottom **620.69** ft. MSL or **70** ft.
J. Filter pack, bottom **620.69** ft. MSL or **70** ft.
K. Borehole, bottom **620.69** ft. MSL or **70** ft.
L. Borehole diameter **6** in.
M. O.D. well casing **2.36** in.
N. I.D. well casing **2.06** in.



1. Cap and lock? [X] Yes [ ] No
2. Protective cover pipe:
a. Inside diameter: **12** in.
b. Length: **1.5** in.
c. Material: Steel [X] 04; Other [ ]
d. Additional protection? [ ] Yes [X] No
If yes, desrcibe:
3. Surface seal: Bentonite [ ] 30; Concrete [X] 01; Other [ ]
4. Material between well casing and protective pipe: Bentonite [ ] 30; **Filter sand** Other [X]
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 [X] 31
d. ____ % Bentonite... Bentonite-cement grout [ ] 50
e. **8** $FT^3$ volume added for any of the above
f. ____ How installed: Tremie [X] 01; Tremie pumped [ ] 02; Gravity [ ] 08
6. Bentonite seal: a. Bentonite granules [ ] 33
b. [ ] 1/4 in. [X] 3/8 in. [ ] 1/2 in. Bentonite chips [X] 32
c. Other [ ]
7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **100**
b. Volume added **0.25** $ft^3$
8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint Sand & Gravel** Other **40**
b. Volume added **1.5** $ft^3$
9. Well casing: Flush threaded PVC schedule 40 [X] 23; Flush threaded PVC schedule 80 [ ] 24; Other [ ]
10. Screen material: **PVC**
a. Screen type: Factory cut [X] 11; Continuous slot [ ] 01; Other [ ]
b. Manufacturer: **Johnson Screens**
c. Slot size: **0.010** in.
d. Slotted length: **5.0** ft.
11. Backfill material (below filter pack): None [ ] 01; **Filter sand** Other [X]

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

Signature: 
Firm: **Geosyntec Consultants**

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

# MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

| Facility/Project Name | County Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | MW-01-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 15 _ _ min.

4. Depth of well (from top of well casisng) _ 14.0 ft.

5. Inside diameter of well _ 2.06 in.

6. Volume of water in filter pack and well casing _ _ 2.4 gal.

7. Volume of water removed from well _ 10.0 gal.

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

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. _ _ 9.32 ft. | _ _ 9.32 ft. |
| Date | b. 04/13/2022 (m m d d y y y y) | 04/13/2022 (m m d d y y y y) |
| Time | c. 14:50 ☐ a.m. ☒ p.m. | 15:20 ☐ a.m. ☒ p.m. |
| 12. Sediment in well bottom | _ 0.0 inches | _ _._ inches |
| 13. Water clarity | Clear ☐ 10 Turbid ☒ 15 (Describe) dark brown, silty | Clear ☒ 20 Turbid ☐ 25 (Describe) clear to light brown |

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: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: 
Print Name: David Zolp
Firm: Geosyntec Consultants

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 Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | MW-01I-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 15 min.

4. Depth of well (from top of well casisng) 475 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 1.1 gal.

7. Volume of water removed from well 1.0 gal.

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

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. 45.31 ft. | 47.31 ft. |
| Date | b. 04/13/2022 (mm/dd/yyyy) | 04/13/2022 (mm/dd/yyyy) |
| Time | c. 15:00 ☐ a.m. ☒ p.m. | 15:20 ☐ a.m. ☒ p.m. |
| 12. Sediment in well bottom | 0.0 inches | _ _ . _ inches |
| 13. Water clarity | Clear ☐ 10 Turbid ☒ 15 (Describe) dark brown, silty | Clear ☐ 20 Turbid ☒ 25 (Describe) brown |

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: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

Dry after ~1 gallon.

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: David Zolp
Firm: Geosyntec Consultants

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 Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | MW-02-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 pumped and surged with pump | ☒ |

3. Time spent developing well __ __ 1 5 min.

4. Depth of well (from top of well casisng) __ 1 7 . 1 ft.

5. Inside diameter of well __ 2 . 0 6 in.

6. Volume of water in filter pack and well casing __ __ 2 . 7 gal.

7. Volume of water removed from well __ __ 2 . 5 gal.

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

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. __ 4 6 . 7 6 ft. | __ 4 6 . 7 5 ft. |
| Date | b. 0 4 / 1 3 / 2 0 2 2 (m m d d y y y y) | 0 4 / 1 3 / 2 0 2 2 (m m d d y y y y) |
| Time | c. 1 1 : 2 0 ☒ a.m. ☐ p.m. | 1 1 : 4 0 ☒ a.m. ☐ p.m. |
| 12. Sediment in well bottom | __ 0 . 0 inches | __ __ . __ inches |
| 13. Water clarity | Clear ☐ 10 Turbid ☒ 15 (Describe) brown, silty | 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: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

Dry after 2.5 gallons

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: David Zolp
Firm: Geosyntec Consultants

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 Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | MW-02I-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 pumped and surged with pump | ☒ |

3. Time spent developing well __52 min.

4. Depth of well (from top of well casisng) __498 ft.

5. Inside diameter of well __2.06 in.

6. Volume of water in filter pack and well casing __2.9 gal.

7. Volume of water removed from well __300.0 gal.

8. Volume of water added (if any) ___.__ gal.

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. __44.29 ft. | __44.27 ft. |
| Date | b. 04/13/2022 (m m d d y y y y) | 04/13/2022 (m m d d y y y y) |
| Time | c. 10:15 ☒ a.m. ☐ p.m. | 11:15 ☒ a.m. ☐ p.m. |
| 12. Sediment in well bottom | __0.0 inches | ___.__ inches |
| 13. Water clarity | Clear ☐ 10 Turbid ☒ 15 (Describe) light gray, silty | 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: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

| Time | Rate | Vol. | Turb. | Temp. (C) | pH | Cond. (uS) | ORP (mV) |
|---|---|---|---|---|---|---|---|
| 10:51 | 0.5 | 20 | high | 14.2 | 6.7 | 4892 | 152 |
| 10:56 | 0.5 | | clear | 13.7 | 6.8 | 4909 | 120 |
| 11:01 | 0.5 | | clear | 13.3 | 6.85 | 4892 | 119 |
| 11:06 | 0.5 | | clear | 13.5 | 6.8 | 4879 | 101 |
| 11:11 | 0.5 | 30 | clear | 13.2 | 6.9 | 4882 | 100 |

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: David Zolp
Firm: Geosyntec Consultants

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 Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | MW-03-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 _ _ _ _ min.

4. Depth of well (from top of well casisng) _ 1 6 . 6 ft.

5. Inside diameter of well _ 2 . 0 6 in.

6. Volume of water in filter pack and well casing _ _ 0 . 3 gal.

7. Volume of water removed from well _ _ 0 . 0 gal.

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

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. _ 1 6 . 0 2 ft. | _ _ _ . _ _ ft. |
| Date | b. 1 4 / 1 3 / 2 0 2 2 (m m d d y y y y) | _ _ / _ _ / _ _ _ _ (m m d d y y y y) |
| Time | c. 1 2 : 3 0 ☒ p.m. ☐ a.m. | _ _ : _ _ ☐ p.m. ☐ a.m. |
| 12. Sediment in well bottom | _ 0 . 0 inches | _ _ . _ 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: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

Not enough water to develop

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: David Zolp
Firm: Geosyntec Consultants

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 Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | MW-03I-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 pumped and surged with pump | ☒ |

3. Time spent developing well __ __40__ min.

4. Depth of well (from top of well casisng) __52.8 ft.

5. Inside diameter of well __2.06 in.

6. Volume of water in filter pack and well casing __ __3.2 gal.

7. Volume of water removed from well __45.0 gal.

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

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. __46.65 ft. | __46.66 ft. |
| Date | b. 04/13/2022 (mm/dd/yyyy) | 04/13/2022 (mm/dd/yyyy) |
| Time | c. 12:40 ☐ a.m. ☒ p.m. | 13:30 ☐ a.m. ☒ p.m. |
| 12. Sediment in well bottom | __0.0 inches | __ __.__ inches |
| 13. Water clarity | Clear ☐ 10 Turbid ☒ 15 (Describe) brown, silty | Clear ☒ 20 Turbid ☐ 25 (Describe) |
| 14. Total suspended solids | __ __ __ __.__ mg/l | __ __ __ __.__ mg/l |
| 15. COD | __ __ __ __.__ mg/l | __ __ __ __.__ mg/l |

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

16. Well developed by: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

| Time | Rate | Vol. | Turb. | Temp. (C) | pH | Cond. (uS) | ORP (mV) | |
|---|---|---|---|---|---|---|---|---|
| 12:47 | 1.0 | | high | 15.6 | 6.83 | 3557 | 99 | |
| 12:52 | 1.0 | | high | 15.1 | 6.82 | 3630 | 93 | surged |
| 12:57 | 1.0 | | clear | 14.3 | 6.83 | 3675 | 93 | |
| 13:02 | 1.0 | | clear | 13.4 | 6.81 | 3656 | 92 | |
| 13:07 | 1.0 | 25 | clear | 13.4 | 6.81 | 3662 | 90 | |
| 13:12 | 1.0 | | high | 14.5 | 6.84 | 3626 | 98 | surged |
| 13:17 | 1.0 | | clear | 14.7 | 6.91 | 3630 | 96 | |
| 13:22 | 1.0 | | clear | 14.7 | 6.92 | 3629 | 95 | |
| 13:27 | 1.0 | 45 | clear | 14.6 | 6.89 | 3633 | 94 | |

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: David Zolp
Firm: Geosyntec Consultants

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 Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | MW-04-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 surged with pump and pumped | ☒ |

3. Time spent developing well 15 min.

4. Depth of well (from top of well casisng) 19.6 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 1.1 gal.

7. Volume of water removed from well 2.0 gal.

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

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. 17.36 ft. | 19.02 ft. |
| Date | b. 04/13/2022 (mm/dd/yyyy) | 04/13/2022 (mm/dd/yyyy) |
| Time | c. 09:00 ☐ a.m. ☒ p.m. | 09:30 ☐ a.m. ☒ p.m. |
| 12. Sediment in well bottom | 0.0 inches | _ _ . _ inches |
| 13. Water clarity | Clear ☐ 10 Turbid ☒ 15 (Describe) dark brown, silty | Clear ☐ 20 Turbid ☒ 25 (Describe) brown |
| 14. Total suspended solids | _ _ _ _ . _ mg/l | _ _ _ _ . _ mg/l |
| 15. COD | _ _ _ _ . _ mg/l | _ _ _ _ . _ mg/l |

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

16. Well developed by: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

Dry after 2 gallons

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: David Zolp
Firm: Geosyntec Consultants

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 Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | MW-04I-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 pumped and surged with pump | ☒ |

3. Time spent developing well __40__ min.

4. Depth of well (from top of well casisng) __52.0__ ft.

5. Inside diameter of well __2.06__ in.

6. Volume of water in filter pack and well casing __27__ gal.

7. Volume of water removed from well __500.0__ gal.

8. Volume of water added (if any) ___.__ gal.

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. __46.94__ ft. | __46.66__ ft. |
| Date | b. 04/13/2022 (mm/dd/yyyy) | 04/13/2022 (mm/dd/yyyy) |
| Time | c. 08:15 ☒ a.m. ☐ p.m. | 09:15 ☒ a.m. ☐ p.m. |
| 12. Sediment in well bottom | __0.0__ inches | ___.__ inches |
| 13. Water clarity | Clear ☐ 10 Turbid ☒ 15 (Describe) brown, silty | Clear ☒ 20 Turbid ☐ 25 (Describe) |
| 14. Total suspended solids | ____.__ mg/l | ____.__ mg/l |
| 15. COD | ____.__ mg/l | ____.__ mg/l |

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

16. Well developed by: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

| Time | Rate | Vol. | Turb. | |
|---|---|---|---|---|
| 0832 | 1.5 | | high | |
| 08:37 | 1.5 | | clear | surged |
| 08:42 | 1.5 | | clear | surged |
| 08:47 | 1.5 | | clear | surged |
| 08:52 | 1.5 | 17 | clear | surged |
| 08:57 | 1.5 | | high | |
| 09:02 | 1.5 | | clear | |
| 09:07 | 1.5 | | clear | surged |
| 09:12 | 1.5 | 50 | clear | |

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: David Zolp
Firm: Geosyntec Consultants

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 Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | MW-05-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 60 min.

4. Depth of well (from top of well casisng) 163 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 4.1 gal.

7. Volume of water removed from well 4.5 gal.

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

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. 8.36 ft. | 16.25 ft. |
| Date | b. 04/13/2022 (mm/dd/yyyy) | 04/13/2022 (mm/dd/yyyy) |
| Time | c. 16:55 ☐ a.m. ☒ p.m. | 18:05 ☐ a.m. ☒ p.m. |
| 12. Sediment in well bottom | 0.0 inches | _ _ . _ inches |
| 13. Water clarity | Clear ☐ 10 Turbid ☒ 15 (Describe) dark brown, silty | Clear ☐ 20 Turbid ☒ 25 (Describe) light brown |
| 14. Total suspended solids | _ _ _ _ . _ mg/l | _ _ _ _ . _ mg/l |
| 15. COD | _ _ _ _ . _ mg/l | _ _ _ _ . _ mg/l |

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

16. Well developed by: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

Dry after 4.5 gallons

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: David Zolp
Firm: Geosyntec Consultants

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 Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | MW-05I-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 pumped and surged with pump | ☒ |

3. Time spent developing well __ __ 30 min.

4. Depth of well (from top of well casisng) __ 45.1 ft.

5. Inside diameter of well __ 2.06 in.

6. Volume of water in filter pack and well casing __ __ 2.5 gal.

7. Volume of water removed from well __ 40.0 gal.

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

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. __ 40.49 ft. | __ 41.18 ft. |
| Date | b. 04/14/2022 | 04/14/2022 |
| Time | c. 07:30 ☒ a.m. ☐ p.m. | 08:00 ☒ a.m. ☐ p.m. |
| 12. Sediment in well bottom | __ 0.0 inches | __ __.__ inches |
| 13. Water clarity | Clear ☐ 10 Turbid ☒ 15 (Describe) brown, high tubidity | 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: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

| Time | Rate | Vol. | Turb. | |
|---|---|---|---|---|
| 0730 | 2.5 | | clear | |
| 0735 | 2.5 | | clear | surged |
| 07:40 | 2.5 | | clear | |
| 07:45 | 2.5 | | clear | |
| 07:50 | 2.5 | 17 | clear | surged |
| 07:55 | 2.5 | | clear | surged |
| 08:00 | 2.5 | 40 | clear | |

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: David Zolp
Firm: Geosyntec Consultants

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 Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | MW-06-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 10 _ _ _ min.

4. Depth of well (from top of well casisng) _ 15.9 ft.

5. Inside diameter of well _ 2.06 in.

6. Volume of water in filter pack and well casing _ _ 1.7 gal.

7. Volume of water removed from well _ _ 2.0 gal.

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

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. _ 12.70 ft. | _ 15.26 ft. |
| Date | b. 04/13/2022 (mm/dd/yyyy) | 04/13/2022 (mm/dd/yyyy) |
| Time | c. 10:10 ☐ a.m. ☒ p.m. | 10:40 ☐ a.m. ☒ p.m. |
| 12. Sediment in well bottom | _ 0.0 inches | _ _._ inches |
| 13. Water clarity | Clear ☐ 10 Turbid ☒ 15 (Describe) dark brown | Clear ☐ 20 Turbid ☒ 25 (Describe) brown |

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: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

Dry after 2 gallons

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: David Zolp
Firm: Geosyntec Consultants

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 Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | MW-06I-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 pumped and surged with pump | ☒ |

3. Time spent developing well 50 min.

4. Depth of well (from top of well casisng) 484.4 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 4.1 gal.

7. Volume of water removed from well 500.0 gal.

8. Volume of water added (if any) _ _ _.__ gal.

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. 40.60 ft. | 41.88 ft. |
| Date | b. 04/14/2022 (m m d d y y y y) | 04/14/2022 (m m d d y y y y) |
| Time | c. 09:17 ☒ a.m. ☐ p.m. | 10:07 ☒ a.m. ☐ p.m. |
| 12. Sediment in well bottom | 0.0 inches | _ _ . _ inches |
| 13. Water clarity | Clear ☐ 10 Turbid ☒ 15 (Describe) dark brown | 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: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

| Time | Rate | Vol. | Turb. | Temp. (C) | pH | Cond. (uS) | ORP (mV) | |
|---|---|---|---|---|---|---|---|---|
| 09:17 | 1.0 | | high | 14.4 | 6.8 | 4859 | 83 | |
| 09:22 | 1.0 | | clear | 14.5 | 6.78 | 5181 | 70 | |
| 09:27 | 1.0 | | high | 14.6 | 6.78 | 5194 | 52 | surged |
| 09:37 | 1.0 | | clear | 14.5 | 6.82 | 5226 | 60 | |
| 09:47 | 1.0 | | clear | 14.3 | 6.78 | 5240 | 60 | surged |
| 09:57 | 1.0 | 40 | clear | 14.4 | 6.72 | 5231 | 44 | |
| 10:07 | 1.0 | 50 | clear | 14.7 | 6.76 | 5256 | 48 | |

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: David Zolp
Firm: Geosyntec Consultants

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 Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | P-01-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 pumped and surged with pump | ☒ |

3. Time spent developing well __ __ 7 5 min.

4. Depth of well (from top of well casisng) __ 6 4 . 7 ft.

5. Inside diameter of well __ 2 . 0 6 in.

6. Volume of water in filter pack and well casing __ __ 3 . 7 gal.

7. Volume of water removed from well __ 3 6 . 0 gal.

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

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. __ 4 6 . 7 6 ft. | __ 4 6 . 7 5 ft. |
| Date | b. 0 4 / 1 3 / 2 0 2 2 (m m d d y y y y) | 0 4 / 1 3 / 2 0 2 2 (m m d d y y y y) |
| Time | c. 1 4 : 5 0 ☐ a.m. ☒ p.m. | 1 6 : 0 0 ☐ a.m. ☒ p.m. |
| 12. Sediment in well bottom | __ 0 . 0 inches | __ __ . __ inches |

13. Water clarity

| | Before Development | After Development |
|---|---|---|
| | Clear ☐ 10 Turbid ☒ 15 | Clear ☒ 20 Turbid ☐ 25 |
| (Describe) | light gray, silty | |

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: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

| Time | Rate | Vol. | Turb. | Temp. (C) | pH | Cond. (uS) | ORP (mV) |
|---|---|---|---|---|---|---|---|
| 15:00 | 0.5 | 10 | high | 17.2 | 7.03 | 4377 | -17 |
| 15:10 | 0.5 | | clear | 17.1 | 6.99 | 4596 | -32 |
| 15:15 | 0.5 | | clear | 17.4 | 6.98 | 4718 | -34 |
| 15:20 | 0.5 | 20 | clear | 17.7 | 6.88 | 4848 | -32 |
| 15:30 | 0.5 | | clear | 17.3 | 6.93 | 4998 | -16 |
| 15:35 | 0.25 | | clear | 17.5 | 6.91 | 5010 | -33 |
| 15:40 | 0.25 | 27 | clear | 17.2 | 6.91 | 5047 | -36 |
| 15:45 | 0.25 | | clear | 17.3 | 6.92 | 5100 | -50 |
| 15:55 | 0.25 | 36 | clear | 17.3 | 6.92 | 5095 | -63 |

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: David Zolp
Firm: Geosyntec Consultants

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 Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | P-05-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 pumped and surged with pump | ☒ |

3. Time spent developing well __ __ 5 1 min.

4. Depth of well (from top of well casisng) __ 6 1 . 6 ft.

5. Inside diameter of well __ 2 . 0 6 in.

6. Volume of water in filter pack and well casing __ __ 6 . 8 gal.

7. Volume of water removed from well __ 5 8 . 0 gal.

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

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. __ 4 1 . 4 1 ft. | __ 4 1 . 4 2 ft. |
| Date | b. 0 4 / 1 3 / 2 0 2 2 (m m d d y y y y) | 0 4 / 1 4 / 2 0 2 2 (m m d d y y y y) |
| Time | c. 1 7 : 2 4 ☒ p.m. ☐ a.m. | 0 8 : 4 5 ☒ p.m. ☐ a.m. |
| 12. Sediment in well bottom | __ 0 . 0 inches | __ __ . __ inches |
| 13. Water clarity | Clear ☐ 10 Turbid ☒ 15 (Describe) light gray, silty | 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: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

| Time | Rate | Vol. | Turb. | Temp. (C) | pH | Cond. (uS) | ORP (mV) |
|---|---|---|---|---|---|---|---|
| 17:24 | 1.0 | | high | 16.6 | 7.07 | 5293 | 89 |
| 17:30 | 0.5 | 5 | clear | 16.3 | 7.04 | 5918 | 32 |
| 17:35 | 0.5 | | clear | 16.3 | 6.94 | 6006 | -7 |
| 17:40 | 1.0 | 10 | clear | 16.4 | 6.92 | 6082 | -22 |
| 17:45 | 1.0 | | clear | 16.4 | 6.83 | 6246 | -14 |
| 08:15 | 1.0 | 30 | clear | 14.5 | 7.05 | 6283 | -23 |
| 08:20 | 1.0 | | clear | 16.2 | 6.76 | 6289 | -15 |
| 08:25 | 1.0 | 40 | clear | 16.1 | 6.77 | 6287 | -14 |
| 08:45 | 1.0 | 55 | clear | 16.2 | 7.20 | 6145 | -13 |

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: David Zolp
Firm: Geosyntec Consultants

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 Name | Well Name |
|---|---|---|
| Metro North Service Center | Milwaukee | P-06-22 |

| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number | DNR Well ID Number |
|---|---|---|---|
| | 41 | _ _ _ _ _ _ | _ _ _ |

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 pumped and surged with pump | ☒ |

3. Time spent developing well __20 min.

4. Depth of well (from top of well casisng) __70.0 ft.

5. Inside diameter of well __2.06 in.

6. Volume of water in filter pack and well casing __4.3 gal.

7. Volume of water removed from well __18.0 gal.

8. Volume of water added (if any) ___.__ gal.

9. Source of water added _____

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

| | Before Development | After Development |
|---|---|---|
| 11. Depth to Water (from top of well casing) | a. __57.62 ft. | __69.62 ft. |
| Date | b. 04/14/2022 (mm/dd/yyyy) | 04/14/2022 (mm/dd/yyyy) |
| Time | c. 09:10 ☒ a.m. ☐ p.m. | 10:30 ☒ a.m. ☐ p.m. |
| 12. Sediment in well bottom | __0.0 inches | ___.__ inches |
| 13. Water clarity | Clear ☐ 10 Turbid ☒ 15 (Describe) light gray, silty | 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: Name (first, last) and Firm
First Name: David Last Name: Zolp
Firm: Geosyntec Consultants

17. Additional comments on development:

| Time | Rate | Vol. | Turb. | Temp. (C) | pH | Cond. (uS) | ORP (mV) |
|---|---|---|---|---|---|---|---|
| 09:17 | | | high | 13.8 | 7.77 | 978.9 | 59 |
| 09:22 | | 15 | high | 14.3 | 7.15 | 2664 | 53 |
| 09:37 | | 18 | high | | | | |

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Frank Last Name: Dombrowski
Facility/Firm: We Energies
Street: 3100 West North Avenue
City/State/Zip: Milwaukee, WI 53208

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: David Zolp
Firm: Geosyntec Consultants

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

191 W. Edgerton Ave
Milwaukee, WI 53207
(414)933-7444

**Report On:** Test Report Attachment

**Lab No:** 22-00760
**Report No:** 22-00760


**Project No:** 22134-40 **Cust No:** 001

**Client:** Geosyntec
David Zolp
10600 N Port Washington Rd.
Suite 100
Mequon, WI 53092

**Project:** Metro North Service Center - Geosyntec

**Location:** Milwaukee~~Appleton~~, WI

**Report Date:** 05/05/2022
**Sample Date:** 04/25/2022
**Sampled By:** Client

Remarks: Please see attached Grain SIze Analyses from Metro North Service Center

Test Methods (If Applicable): C136

Orig: Geosyntec Attn: David Zolp (1-ec copy)
1-cc Laboratory

Respectfully Submitted,

Thomas Stevens, Lab Manager

GESTRA Engineering, Inc
191 W. Edgerton Ave
Milwaukee, WI 53207
Phone: (414) 933-7444; Fax: (414) 933-7844

# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

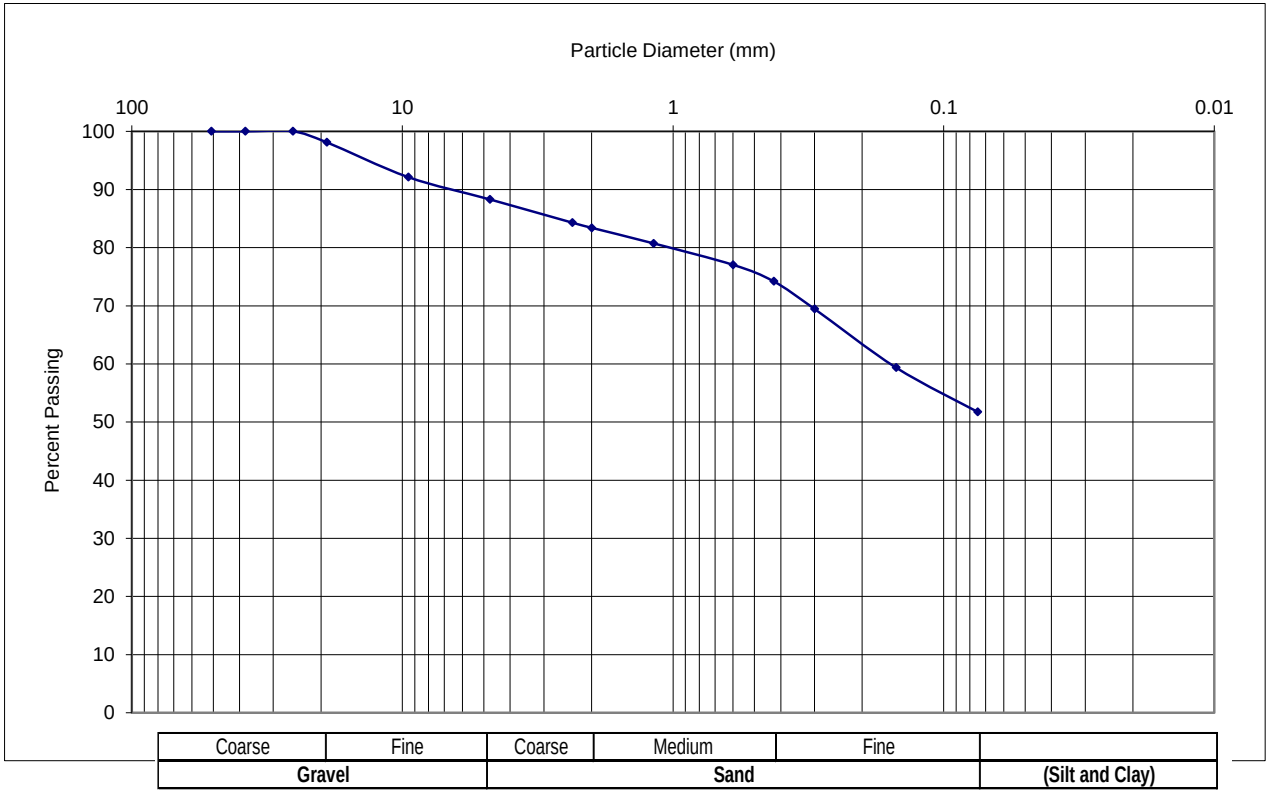
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntec |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | MW-01-22 | Depth of Sample: | 10' - 15' |

## Mechanical Analysis Data

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 100.0 |
| 1 | 25.4 | 100.0 |
| 3/4 | 19.05 | 98.1 |
| 3/8 | 9.525 | 92.1 |
| #4 | 4.75 | 88.3 |
| #8 | 2.36 | 84.3 |
| #10 | 2 | 83.4 |
| #16 | 1.18 | 80.7 |
| #30 | 0.6 | 77.0 |
| #40 | 0.425 | 74.2 |
| #50 | 0.3 | 69.5 |
| #100 | 0.15 | 59.4 |
| #200 | 0.075 | 51.8 |




Moisture Content 11.3 %

Remarks: Gravel 11.7 % Sand 36.5 %
Passing #200 Sieve (Silt & Clay) 51.8 %

Performed by: TS/B. Bills

Reviewed by: T Stevens
GESTRA Engineering, Inc.

GESTRA Engineering, Inc
191 W. Edgerton Ave
Milwaukee, WI 53207
Phone: (414) 933-7444; Fax: (414) 933-7844

# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

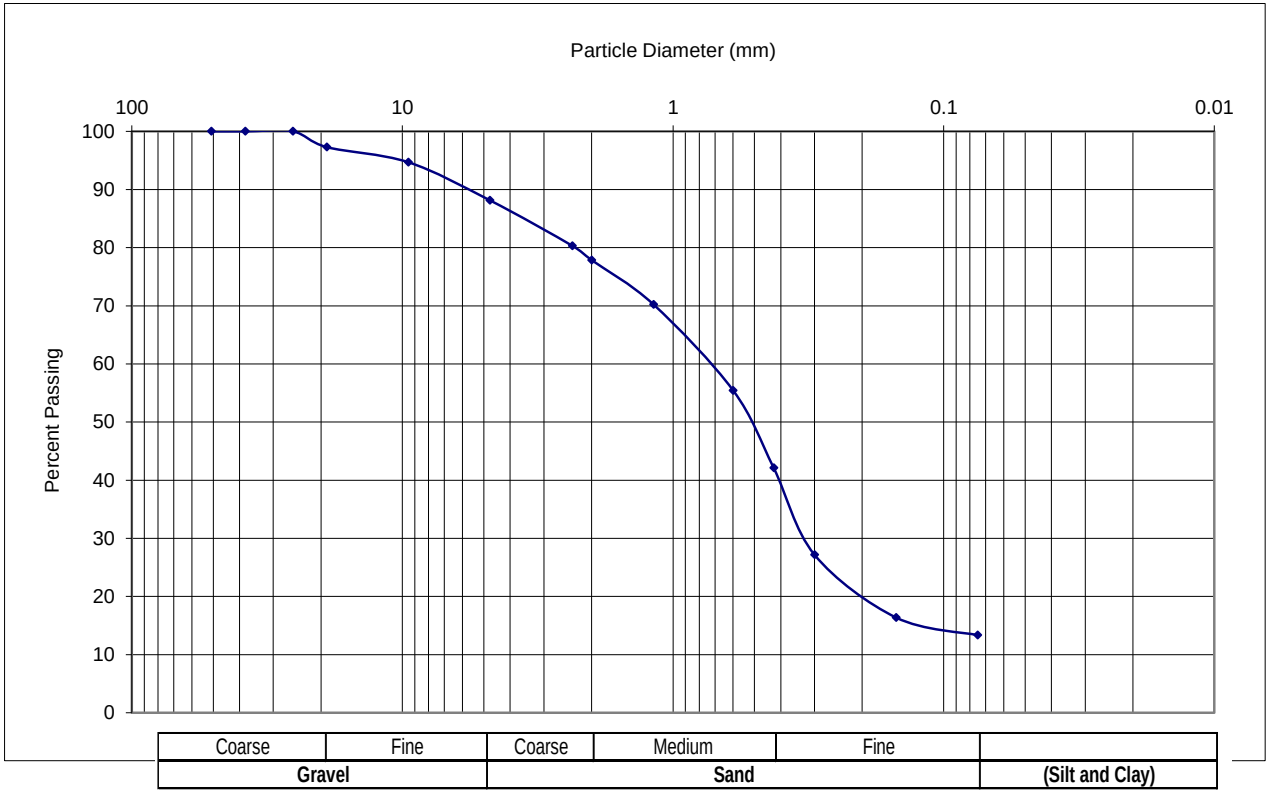
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntec |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | MW-01I-22 | Depth of Sample: | 38' - 48' |

## Mechanical Analysis Data

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 100.0 |
| 1 | 25.4 | 100.0 |
| 3/4 | 19.05 | 97.3 |
| 3/8 | 9.525 | 94.7 |
| #4 | 4.75 | 88.1 |
| #8 | 2.36 | 80.3 |
| #10 | 2 | 77.9 |
| #16 | 1.18 | 70.2 |
| #30 | 0.6 | 55.5 |
| #40 | 0.425 | 42.1 |
| #50 | 0.3 | 27.2 |
| #100 | 0.15 | 16.4 |
| #200 | 0.075 | 13.4 |




Moisture Content 13.0 %

Remarks: Gravel 11.9 % Sand 74.8 %
Passing #200 Sieve (Silt & Clay) 13.4 %

Performed by: B. Bills

Reviewed by: T Stevens
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# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

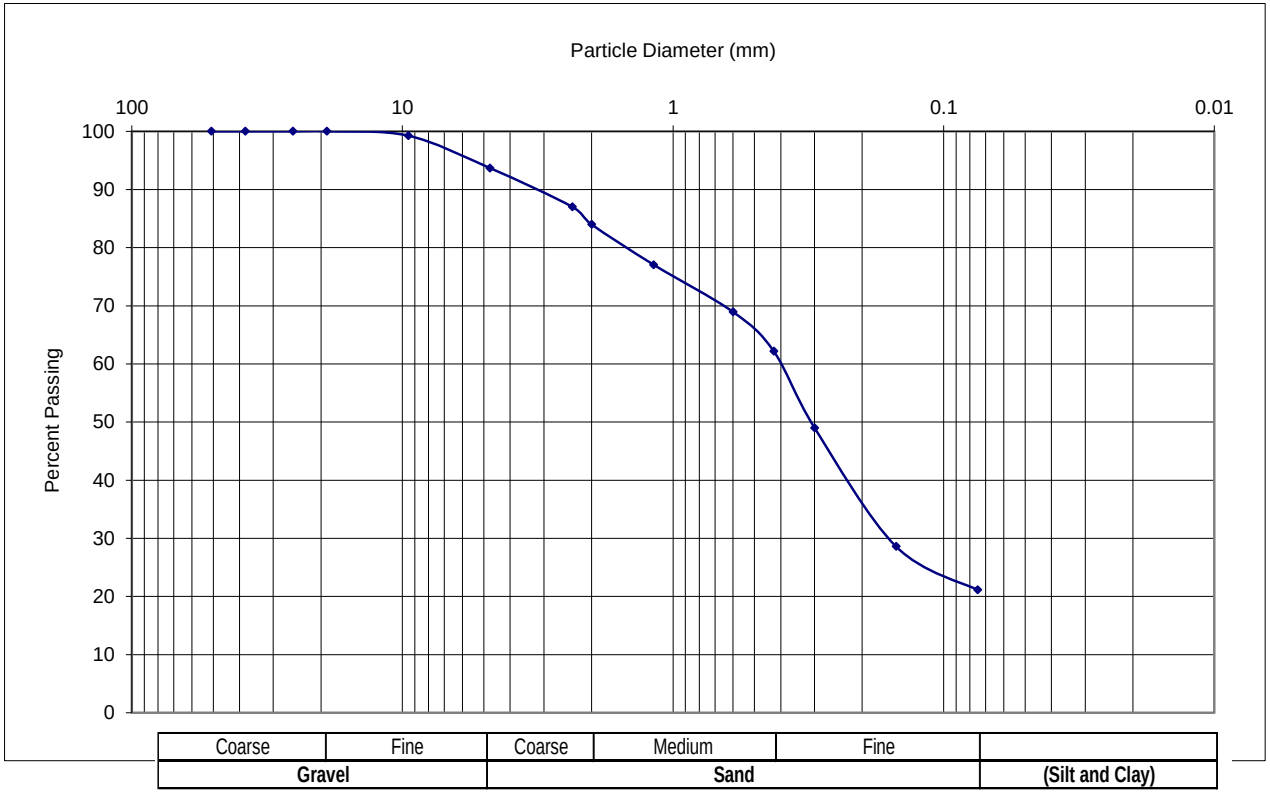
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntec |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | P-01-22 | Depth of Sample: | 60'-63' |

## Mechanical Analysis Data

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 100.0 |
| 1 | 25.4 | 100.0 |
| 3/4 | 19.05 | 100.0 |
| 3/8 | 9.525 | 99.3 |
| #4 | 4.75 | 93.7 |
| #8 | 2.36 | 87.0 |
| #10 | 2 | 84.0 |
| #16 | 1.18 | 77.1 |
| #30 | 0.6 | 68.9 |
| #40 | 0.425 | 62.2 |
| #50 | 0.3 | 49.0 |
| #100 | 0.15 | 28.6 |
| #200 | 0.075 | 21.1 |




Moisture Content 5.5 %

Remarks: Gravel 6.3 % Sand 72.6 %
Passing #200 Sieve (Silt & Clay) 21.1 %

Performed by: B. Bills

Reviewed by: T Stevens
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# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

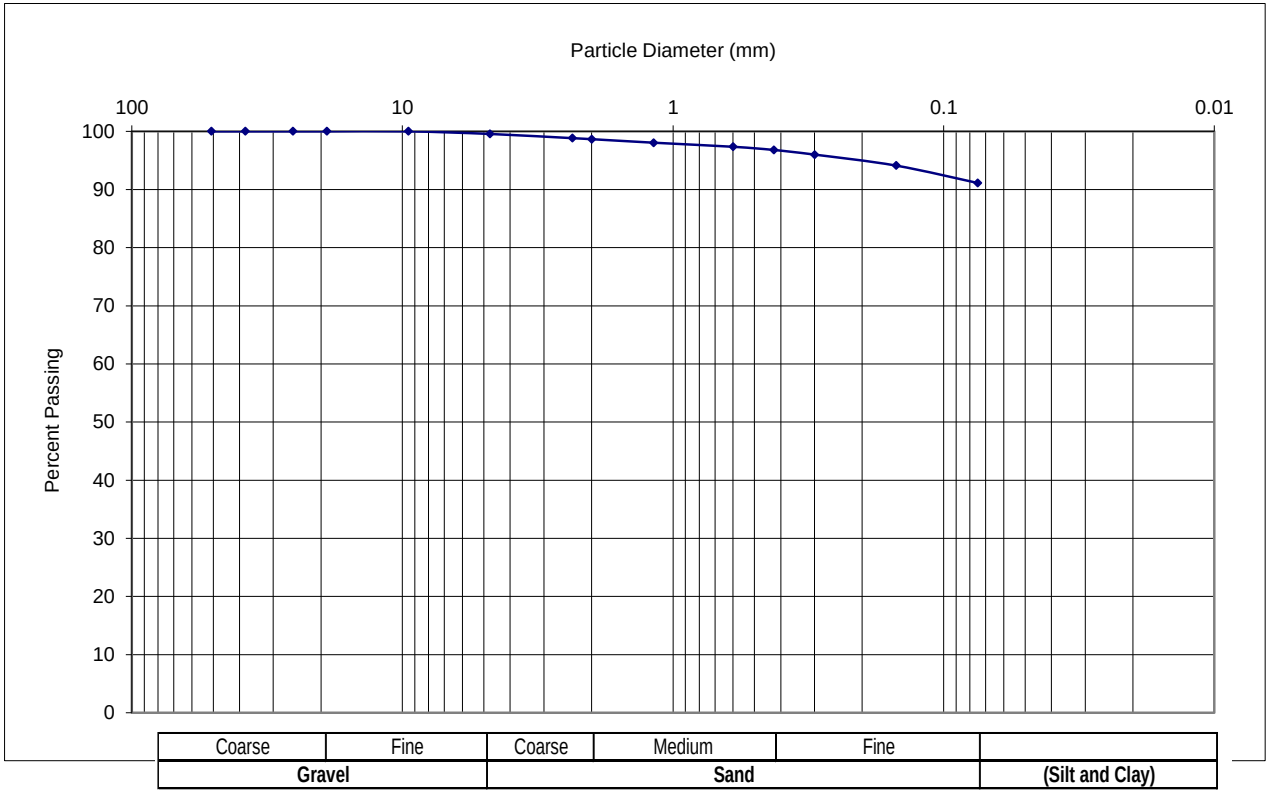
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntech |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | MW-02-22 | Depth of Sample: | 10' - 17' |

**Mechanical Analysis Data**

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 100.0 |
| 1 | 25.4 | 100.0 |
| 3/4 | 19.05 | 100.0 |
| 3/8 | 9.525 | 100.0 |
| #4 | 4.75 | 99.6 |
| #8 | 2.36 | 98.8 |
| #10 | 2 | 98.7 |
| #16 | 1.18 | 98.0 |
| #30 | 0.6 | 97.3 |
| #40 | 0.425 | 96.8 |
| #50 | 0.3 | 96.0 |
| #100 | 0.15 | 94.1 |
| #200 | 0.075 | 91.1 |




Moisture Content 18.0 %

Remarks: Gravel 0.4 % Sand 8.4 %
Passing #200 Sieve (Silt & Clay) 91.1 %

Performed by: B. Bills

Reviewed by: T Stevens
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# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

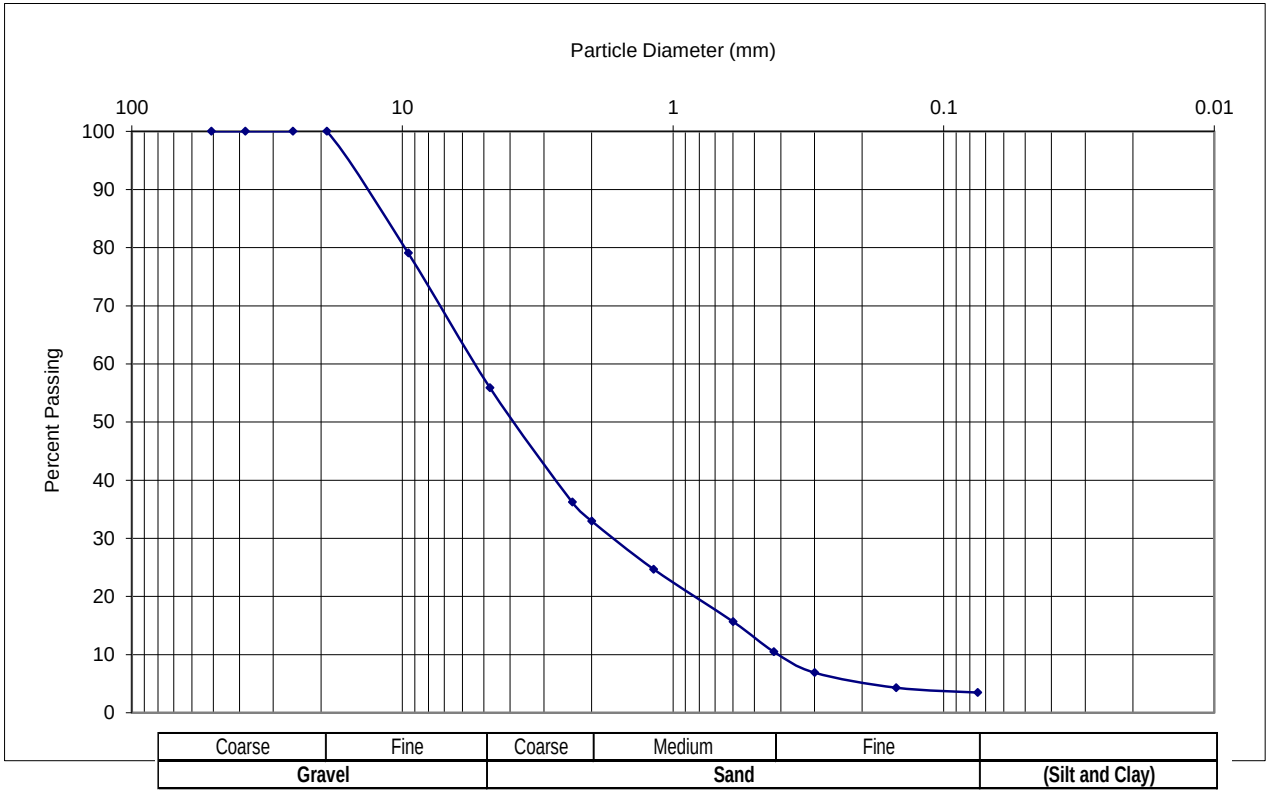
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntec |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | MW-02I-22 | Depth of Sample: | 45' - 50' |

## Mechanical Analysis Data

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 100.0 |
| 1 | 25.4 | 100.0 |
| 3/4 | 19.05 | 100.0 |
| 3/8 | 9.525 | 79.1 |
| #4 | 4.75 | 55.9 |
| #8 | 2.36 | 36.2 |
| #10 | 2 | 33.0 |
| #16 | 1.18 | 24.7 |
| #30 | 0.6 | 15.7 |
| #40 | 0.425 | 10.5 |
| #50 | 0.3 | 6.9 |
| #100 | 0.15 | 4.3 |
| #200 | 0.075 | 3.5 |




Moisture Content 8.5 %

Remarks: Gravel 44.1 % Sand 52.4 %
Passing #200 Sieve (Silt & Clay) 3.5 %

Performed by: TS/B. Bills

Reviewed by: T Stevens
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# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

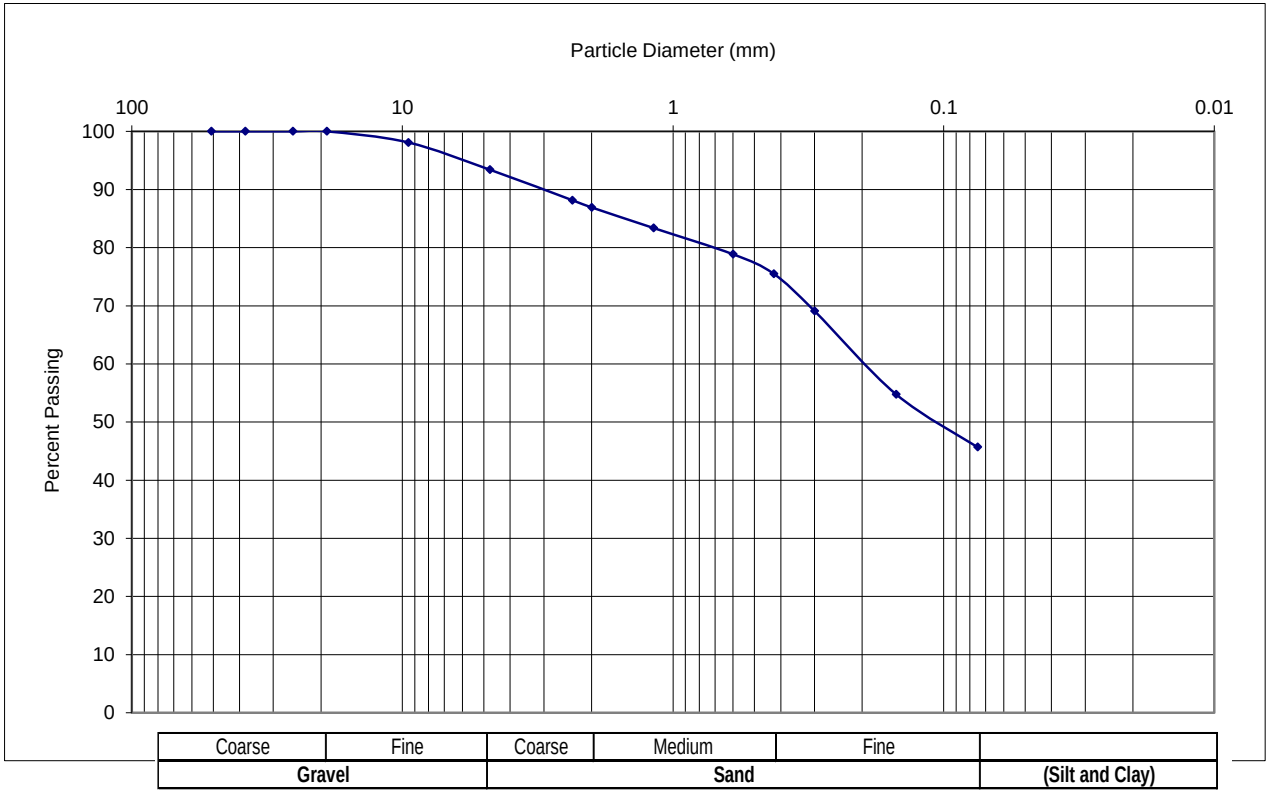
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntec |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | MW-03-22 | Depth of Sample: | 10' - 12' |

## Mechanical Analysis Data

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 100.0 |
| 1 | 25.4 | 100.0 |
| 3/4 | 19.05 | 100.0 |
| 3/8 | 9.525 | 98.1 |
| #4 | 4.75 | 93.4 |
| #8 | 2.36 | 88.2 |
| #10 | 2 | 86.9 |
| #16 | 1.18 | 83.4 |
| #30 | 0.6 | 78.9 |
| #40 | 0.425 | 75.5 |
| #50 | 0.3 | 69.1 |
| #100 | 0.15 | 54.8 |
| #200 | 0.075 | 45.7 |




Moisture Content 13.5 %

Remarks: Gravel 6.6 % Sand 47.7 %
Passing #200 Sieve (Silt & Clay) 45.7 %

Performed by: TS/B. Bills

Reviewed by: T Stevens
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# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

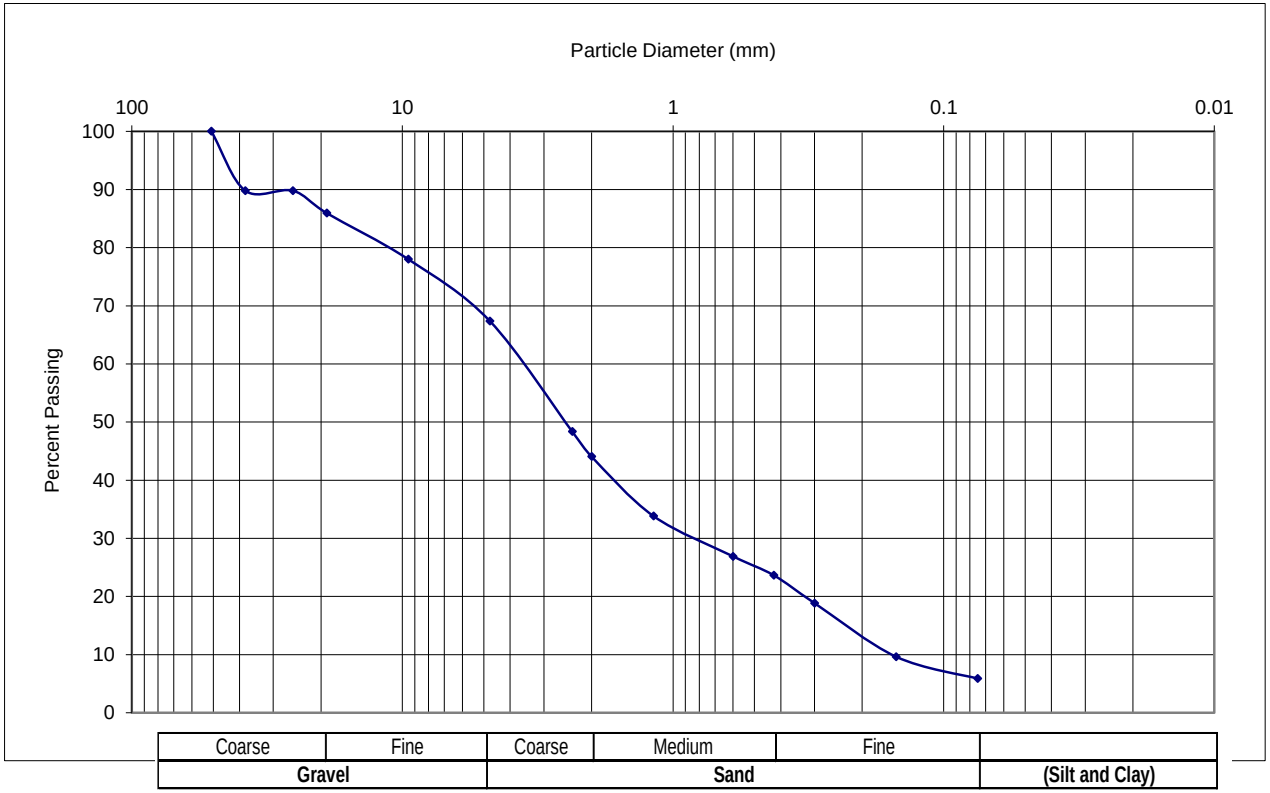
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntec |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | MW-03I-22 | Depth of Sample: | 45' - 53' |

## Mechanical Analysis Data

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 89.8 |
| 1 | 25.4 | 89.8 |
| 3/4 | 19.05 | 85.9 |
| 3/8 | 9.525 | 78.0 |
| #4 | 4.75 | 67.4 |
| #8 | 2.36 | 48.4 |
| #10 | 2 | 44.1 |
| #16 | 1.18 | 33.8 |
| #30 | 0.6 | 26.9 |
| #40 | 0.425 | 23.7 |
| #50 | 0.3 | 18.9 |
| #100 | 0.15 | 9.6 |
| #200 | 0.075 | 5.9 |




Moisture Content 7.5 %

Remarks: Gravel 32.6 % Sand 61.5 %
Passing #200 Sieve (Silt & Clay) 5.9 %

Performed by: B. Bills

Reviewed by: T Stevens
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Phone: (414) 933-7444; Fax: (414) 933-7844

# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

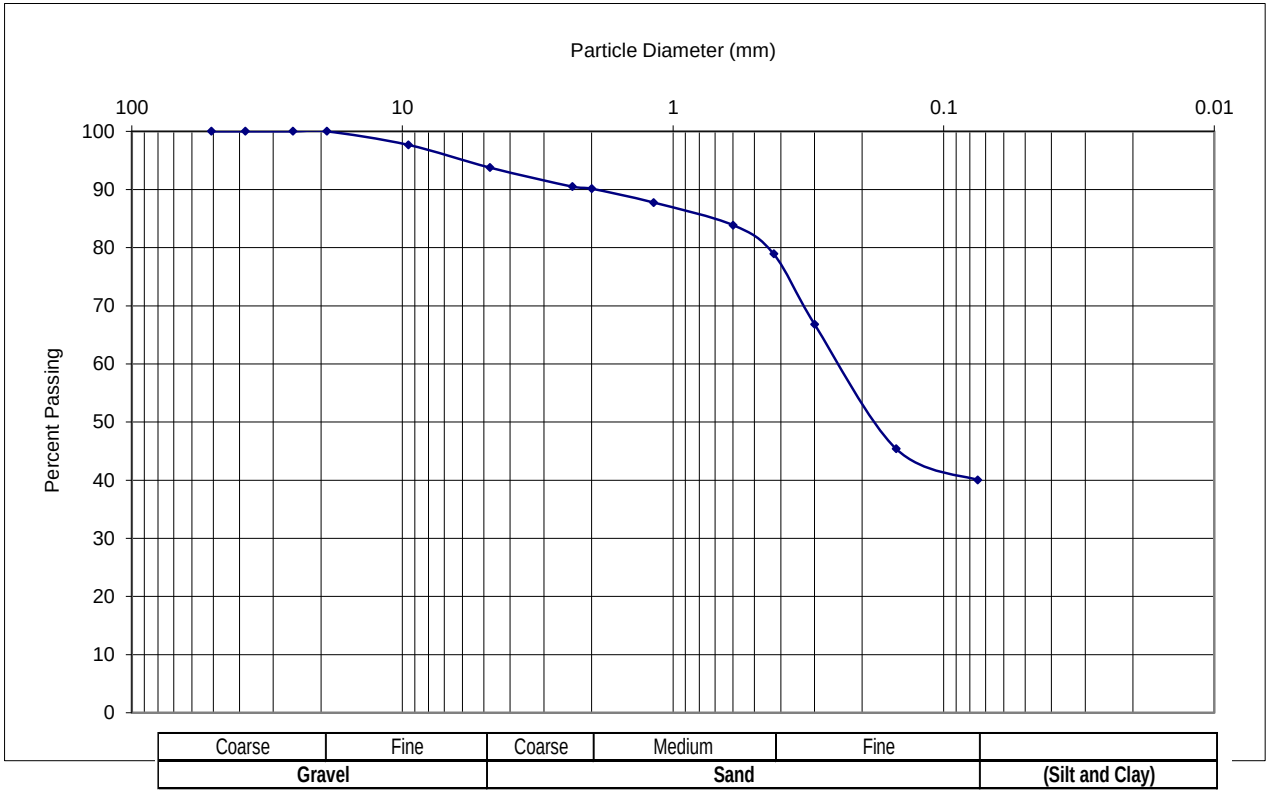
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntec |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | MW-04-22 | Depth of Sample: | 19' |

## Mechanical Analysis Data

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 100.0 |
| 1 | 25.4 | 100.0 |
| 3/4 | 19.05 | 100.0 |
| 3/8 | 9.525 | 97.7 |
| #4 | 4.75 | 93.8 |
| #8 | 2.36 | 90.5 |
| #10 | 2 | 90.1 |
| #16 | 1.18 | 87.8 |
| #30 | 0.6 | 83.9 |
| #40 | 0.425 | 78.9 |
| #50 | 0.3 | 66.8 |
| #100 | 0.15 | 45.4 |
| #200 | 0.075 | 40.0 |




Moisture Content 14.9 %

Remarks: Gravel 6.2 % Sand 53.7 %
Passing #200 Sieve (Silt & Clay) 40.0 %

Performed by: B. Bills

Reviewed by: T Stevens
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# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

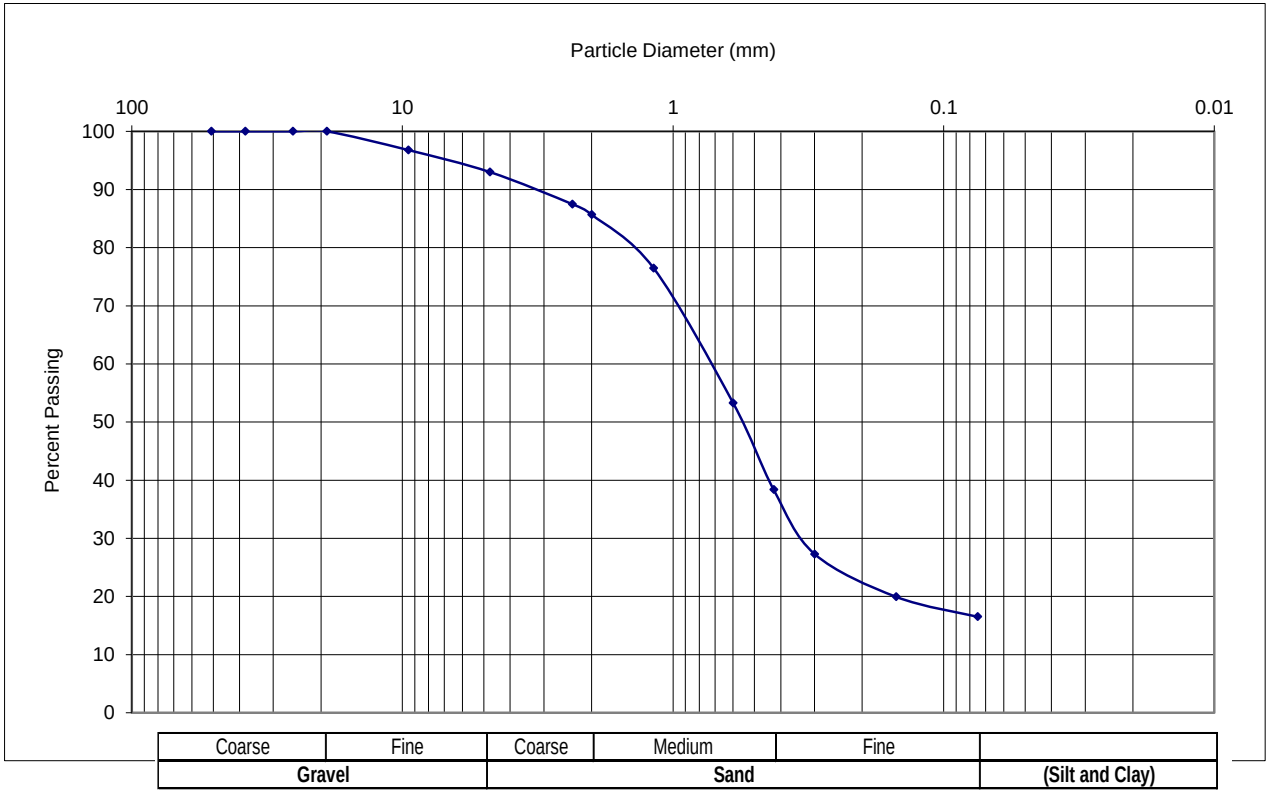
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntec |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | MW-04I-22 | Depth of Sample: | 47' - 52' |

## Mechanical Analysis Data

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 100.0 |
| 1 | 25.4 | 100.0 |
| 3/4 | 19.05 | 100.0 |
| 3/8 | 9.525 | 96.8 |
| #4 | 4.75 | 93.0 |
| #8 | 2.36 | 87.5 |
| #10 | 2 | 85.7 |
| #16 | 1.18 | 76.5 |
| #30 | 0.6 | 53.3 |
| #40 | 0.425 | 38.4 |
| #50 | 0.3 | 27.3 |
| #100 | 0.15 | 19.9 |
| #200 | 0.075 | 16.5 |




Moisture Content 10.3 %

Remarks: Gravel 7.0 % Sand 76.5 %
Passing #200 Sieve (Silt & Clay) 16.5 %

Performed by: B. Bills

Reviewed by: T Stevens
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Phone: (414) 933-7444; Fax: (414) 933-7844

# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

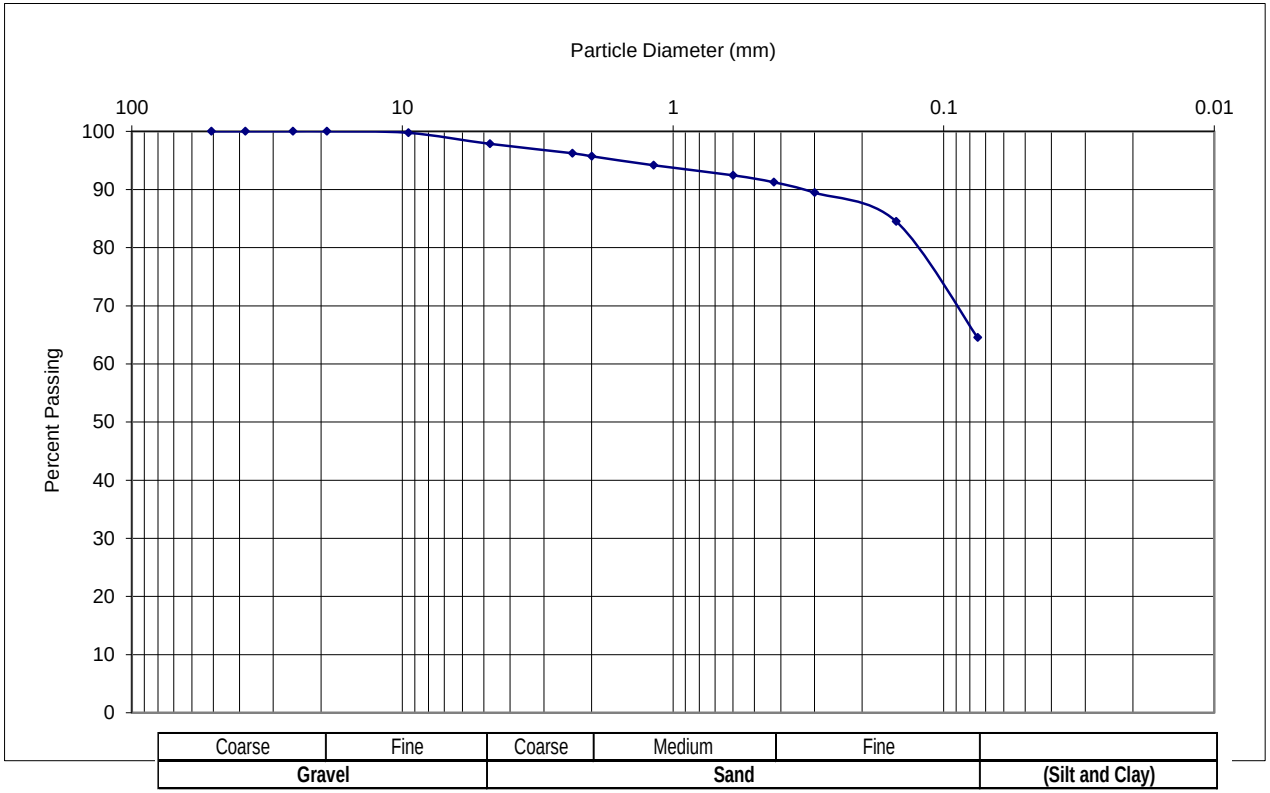
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntec |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | MW-05-22 | Depth of Sample: | 10' - 17' |

## Mechanical Analysis Data

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 100.0 |
| 1 | 25.4 | 100.0 |
| 3/4 | 19.05 | 100.0 |
| 3/8 | 9.525 | 99.8 |
| #4 | 4.75 | 97.9 |
| #8 | 2.36 | 96.2 |
| #10 | 2 | 95.7 |
| #16 | 1.18 | 94.2 |
| #30 | 0.6 | 92.4 |
| #40 | 0.425 | 91.2 |
| #50 | 0.3 | 89.5 |
| #100 | 0.15 | 84.5 |
| #200 | 0.075 | 64.5 |




Moisture Content 16.0 %

Remarks: Gravel 2.1 % Sand 33.3 %
Passing #200 Sieve (Silt & Clay) 64.5 %

Performed by: TS/B. Bills

Reviewed by: T Stevens
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Phone: (414) 933-7444; Fax: (414) 933-7844

# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

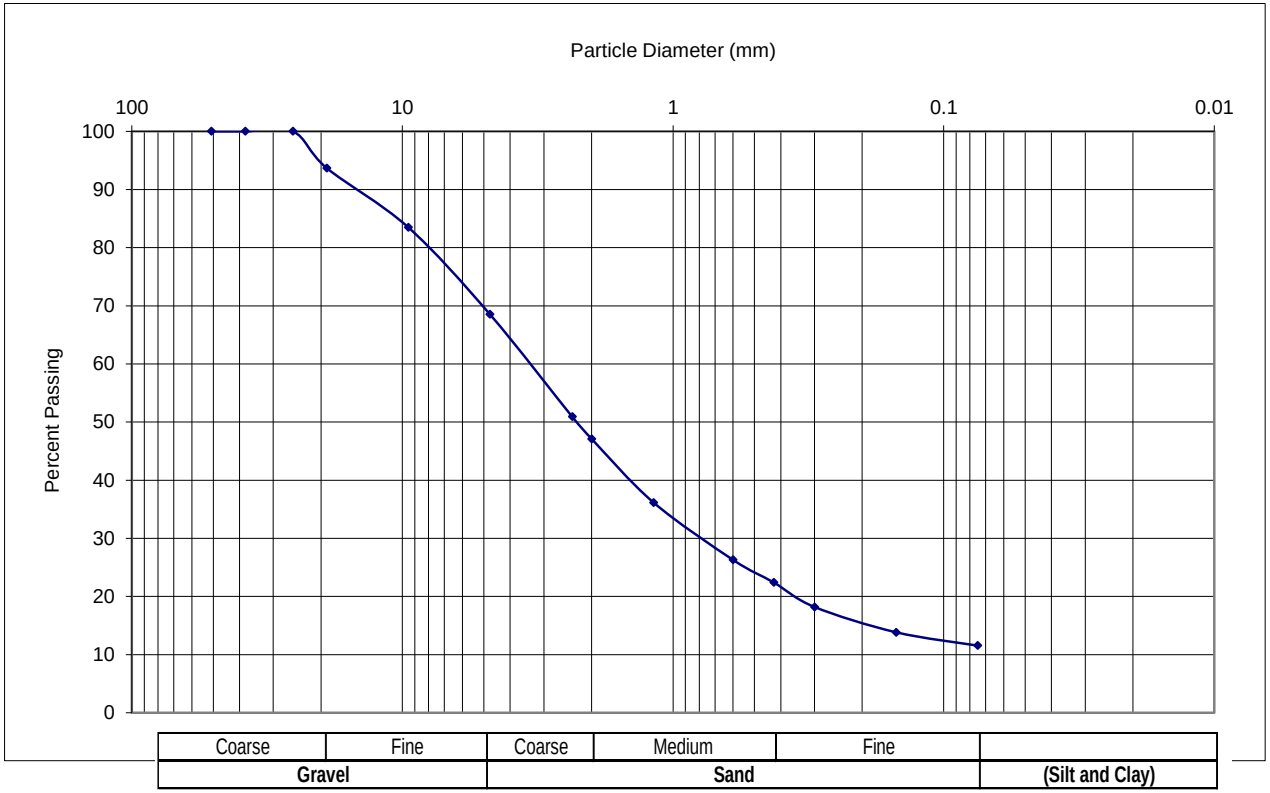
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntec |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | MW-05I-22 | Depth of Sample: | 45' - 46' |

## Mechanical Analysis Data

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 100.0 |
| 1 | 25.4 | 100.0 |
| 3/4 | 19.05 | 93.7 |
| 3/8 | 9.525 | 83.5 |
| #4 | 4.75 | 68.5 |
| #8 | 2.36 | 50.9 |
| #10 | 2 | 47.1 |
| #16 | 1.18 | 36.2 |
| #30 | 0.6 | 26.3 |
| #40 | 0.425 | 22.4 |
| #50 | 0.3 | 18.2 |
| #100 | 0.15 | 13.8 |
| #200 | 0.075 | 11.6 |




Moisture Content 7.9 %

Remarks: Gravel 31.5 % Sand 57.0 %
Passing #200 Sieve (Silt & Clay) 11.6 %

Performed by: B. Bills

Reviewed by: T Stevens
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Phone: (414) 933-7444; Fax: (414) 933-7844

# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

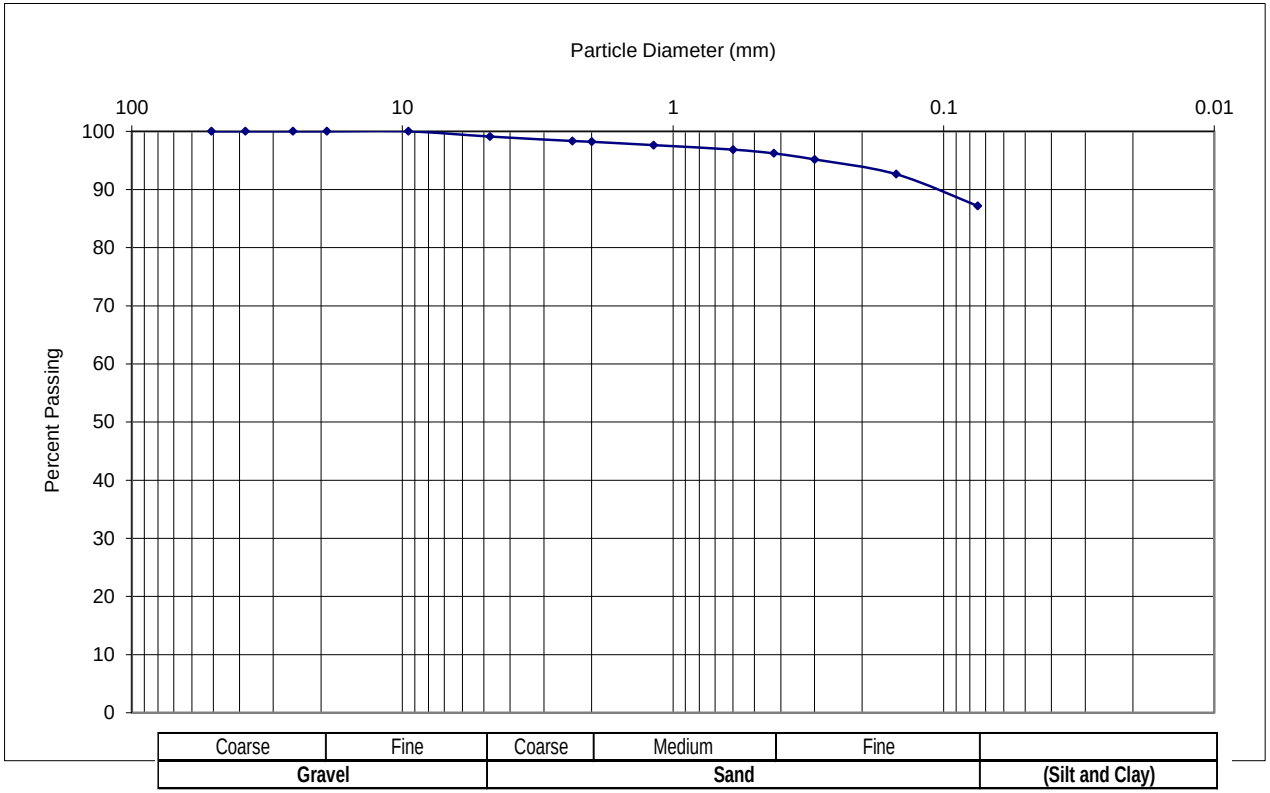
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntec |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | P-05-22 | Depth of Sample: | 56' - 61' |

## Mechanical Analysis Data

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 100.0 |
| 1 | 25.4 | 100.0 |
| 3/4 | 19.05 | 100.0 |
| 3/8 | 9.525 | 100.0 |
| #4 | 4.75 | 99.1 |
| #8 | 2.36 | 98.3 |
| #10 | 2 | 98.2 |
| #16 | 1.18 | 97.6 |
| #30 | 0.6 | 96.9 |
| #40 | 0.425 | 96.2 |
| #50 | 0.3 | 95.2 |
| #100 | 0.15 | 92.6 |
| #200 | 0.075 | 87.2 |




Moisture Content 17.7 %

Remarks: Gravel 0.9 % Sand 11.9 %
Passing #200 Sieve (Silt & Clay) 87.2 %

Performed by: TS/B. Bills

Reviewed by: T Stevens
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# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

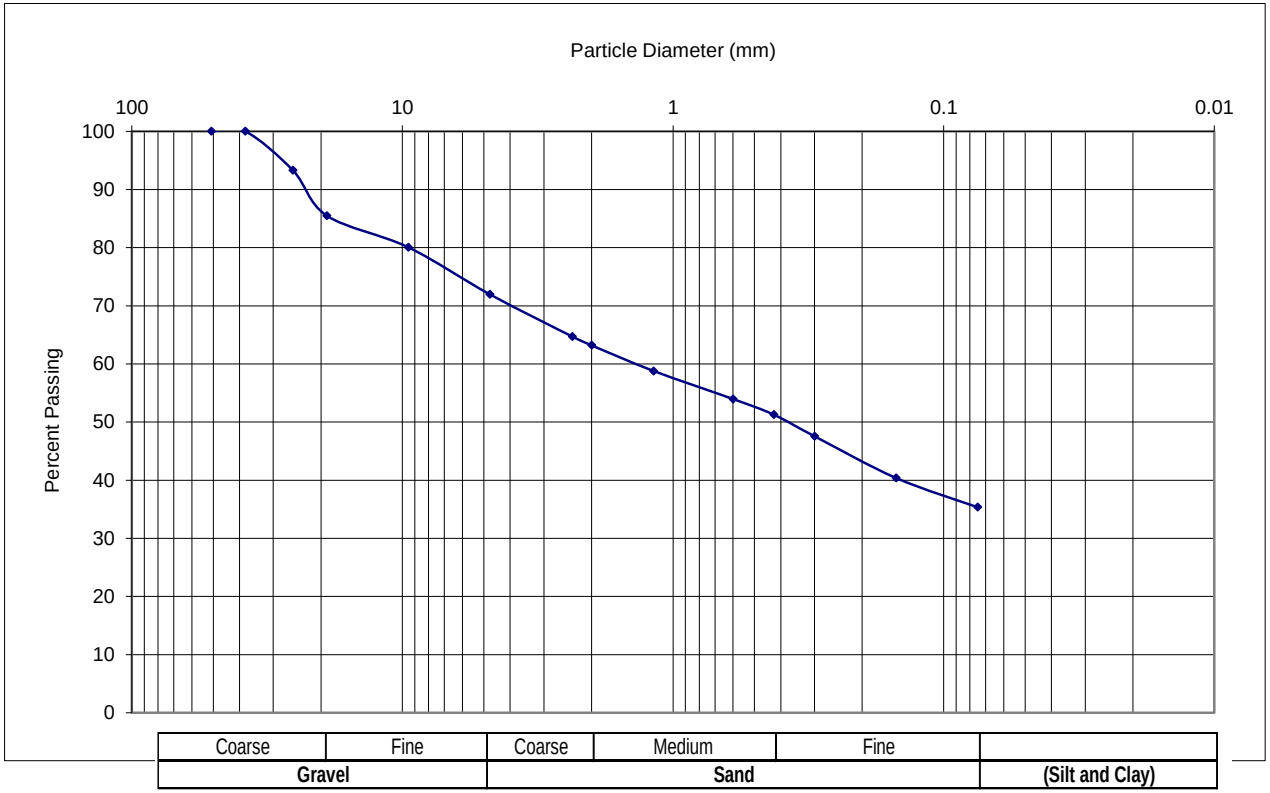
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntec |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | MW-06-22 | Depth of Sample: | 10' - 15' |

## Mechanical Analysis Data

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 100.0 |
| 1 | 25.4 | 93.3 |
| 3/4 | 19.05 | 85.5 |
| 3/8 | 9.525 | 80.1 |
| #4 | 4.75 | 72.0 |
| #8 | 2.36 | 64.7 |
| #10 | 2 | 63.2 |
| #16 | 1.18 | 58.8 |
| #30 | 0.6 | 54.0 |
| #40 | 0.425 | 51.3 |
| #50 | 0.3 | 47.6 |
| #100 | 0.15 | 40.4 |
| #200 | 0.075 | 35.4 |




Moisture Content 10.2 %

Remarks: Gravel 28.0 % Sand 36.6 %
Passing #200 Sieve (Silt & Clay) 35.4 %

Performed by: TS/B. Bills

Reviewed by: T Stevens
GESTRA Engineering, Inc.

GESTRA Engineering, Inc
191 W. Edgerton Ave
Milwaukee, WI 53207
Phone: (414) 933-7444; Fax: (414) 933-7844

# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

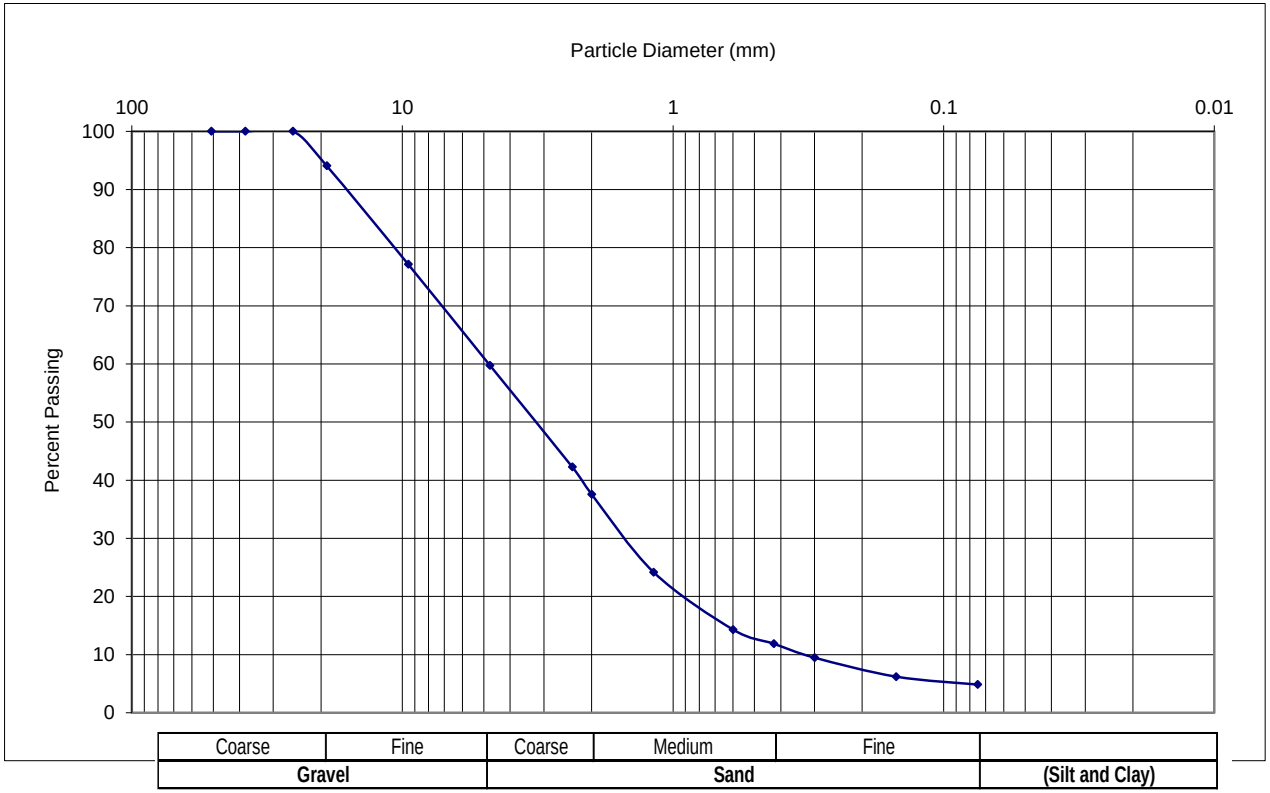
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntech |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | MW-06I-22 | Depth of Sample: | 38' - 48' |

**Mechanical Analysis Data**

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 100.0 |
| 1 | 25.4 | 100.0 |
| 3/4 | 19.05 | 94.1 |
| 3/8 | 9.525 | 77.2 |
| #4 | 4.75 | 59.7 |
| #8 | 2.36 | 42.3 |
| #10 | 2 | 37.6 |
| #16 | 1.18 | 24.2 |
| #30 | 0.6 | 14.3 |
| #40 | 0.425 | 11.9 |
| #50 | 0.3 | 9.5 |
| #100 | 0.15 | 6.2 |
| #200 | 0.075 | 4.9 |




Moisture Content 6.0 %

Remarks: Gravel 40.3 % Sand 54.9 %
Passing #200 Sieve (Silt & Clay) 4.9 %

Performed by: B. Bills

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# Laboratory Test Results of Mechanical Analysis of Soil or Aggregate

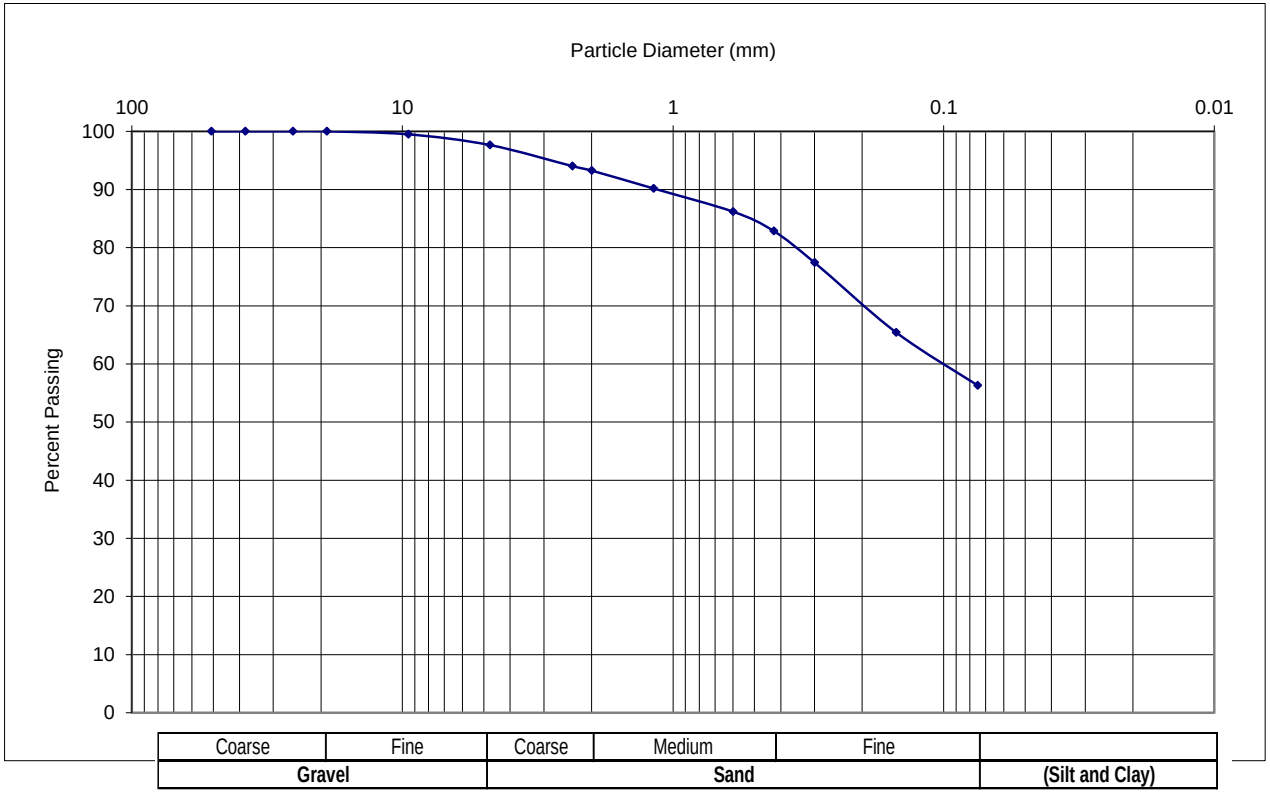
| | | | |
|---|---|---|---|
| Project Name: | Metro North Service Center | Date: | April 27, 2022 |
| Project Number: | 22134-40 | Reported To: | Geosyntec |
| Project Location: | Milwaukee~~Appleton~~, WI | | |
| ASTM Designation: | **C136, D422, T-27** | | |

**Sample Information**

| | | | |
|---|---|---|---|
| Type of Sample: | Bag | Sample Number: | |
| Boring Number: | P-06-22 | Depth of Sample: | 65' - 70' |

## Mechanical Analysis Data

| Sieve | Sieve Opening (mm) | Percent Passing (%) |
|---|---|---|
| 2 | 50.8 | 100.0 |
| 1 1/2 | 38.1 | 100.0 |
| 1 | 25.4 | 100.0 |
| 3/4 | 19.05 | 100.0 |
| 3/8 | 9.525 | 99.5 |
| #4 | 4.75 | 97.6 |
| #8 | 2.36 | 94.0 |
| #10 | 2 | 93.3 |
| #16 | 1.18 | 90.2 |
| #30 | 0.6 | 86.2 |
| #40 | 0.425 | 82.9 |
| #50 | 0.3 | 77.4 |
| #100 | 0.15 | 65.4 |
| #200 | 0.075 | 56.3 |




Moisture Content 21.4 %

Remarks: Gravel 2.4 % Sand 41.3 %
Passing #200 Sieve (Silt & Clay) 56.3 %

Performed by: TS/B. Bills

Reviewed by: T Stevens
GESTRA Engineering, Inc.

# Detail Contract Activity Report

All Ticket Types

July 01, 2022 to July 25, 2022

All Facilities

Specific Contract(s) : '30632121600'

History and Waiting

* - Confirmed Qty Applied to Billing

30632121600

| Ticket Date | | Facility & Ticket Number | | Customer | Truck | Material | | Billing Quantity | | Ordered Quantity |
|---|---|---|---|---|---|---|---|---|---|---|
| 07/08/2022 | I | 01 | 1142559 | 000023 - WE ENERGIES | SET1387 | SW-CONT SOIL | F | 4.40 | TN | 0.00 |

Tickets Reported: 1 Items Reported: 1

| Material Summary | Weight Inbound | Weight Outbound | | Volume Inbound | Volume Outbound | | Count Inbound | Count Outbound | Billing Quantity | |
|---|---|---|---|---|---|---|---|---|---|---|
| VG - SW-CONT SOIL | 4.40 | 0.00 | TN | 14.00 | 0.00 | YD | 0.00 | 0.00 | 4.40 | TN |

Tickets Reported: 1 Items Reported: 1