

June 15, 2021

Ms. Jennifer Dorman
Environmental Program Associate
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212-3128

via WDNR Submittal Portal

Subject: Additional Groundwater Investigation Work Plan and Groundwater Monitoring Plan
Milwaukee Die Casting Company Site
4132 North Holton Street, Milwaukee, Wisconsin
WDNR BRRTS # 02-41-000023
WDNR FID # 241228240

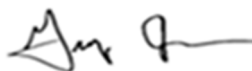
Dear Ms. Dorman,

Please find enclosed the *Additional Groundwater Investigation Work Plan and Groundwater Monitoring Plan* (Plan) for the Milwaukee Die Casting Company Site. This Plan is being submitted on behalf of Pharmacia LLC (Pharmacia), which is acting on behalf of Fisher Controls International, Inc. (Fisher) in this matter.¹

Pharmacia is requesting Wisconsin Department of Natural Resources (WDNR) review and approval of this Plan. The \$700 review fee (check # 2648) has been mailed to WDNR.

Please contact me if you have any questions regarding this submittal.

Sincerely,



Greg Johnson, P.H., P.G., P.E.
Senior Engineer
(licensed P.E. in WI, P.H. in WI, P.G. in IL, WI)

Enclosure

cc: Mr. Stephen Mueller, WDNR
Mr. Christopher Clark, Pharmacia LLC
Ms. Mary Jo Anzia, BSI

¹ By submitting the enclosed Plan, neither Pharmacia nor Fisher is waiving any of its rights under federal or state law. Additionally, nothing in this Plan should be deemed an admission of fact or law, or a waiver of any defense or right to contest Pharmacia's or Fisher's liability under any state or federal law.

Prepared for
Pharmacia LLC

ADDITIONAL GROUNDWATER INVESTIGATION WORK PLAN AND GROUNDWATER MONITORING PLAN

Milwaukee Die Casting Company Site
4132 North Holton Street
Milwaukee, Wisconsin
WDNR BRRTS # 02-41-000023
WDNR FID # 241228240

Prepared by

Geosyntec 
consultants

10600 N. Port Washington Road, Suite 100
Mequon, Wisconsin 53092
Project Number CHW8271N

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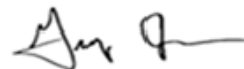
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June 15, 2021



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1. INTRODUCTION

This *Additional Groundwater Investigation Work Plan and Groundwater Monitoring Plan* (“Plan”) was prepared by Geosyntec Consultants (Geosyntec) on behalf of Pharmacia LLC (Pharmacia) for the Milwaukee Die Casting Company (MDCC) site located at 4132 North Holton Street, Milwaukee, Wisconsin (“Site”) [Wisconsin Department of Natural Resources (WDNR) Bureau for Remediation and Redevelopment Tracking System (BRRTS) # 02-41-000023]. Pharmacia is acting on behalf of Fisher Controls International, Inc. (Fisher) in this matter.¹

The Wisconsin Administrative Code NR 712.09 submittal certification is provided in **Appendix 1**.

1.1 Plan Basis

This Plan was prepared pursuant to Wisconsin Administrative Code NR 716.09 and NR 724.17(2) and addresses the following planned activities identified in the May 11, 2021 *Supplemental Site Investigation Report* (“SSI Report”) (Geosyntec, 2021):

- Conducting limited additional groundwater investigation to further assess the extent of chlorinated volatile organic compound (CVOC) concentrations greater than NR 140 enforcement standards (ESs) in deeper groundwater; and
- Conducting monitored natural attenuation (MNA) groundwater monitoring to collect sufficient data to confirm that post-removal action residual CVOCs are effectively naturally attenuating.

This Plan incorporates by reference previous correspondence with WDNR as documented in Sections 1.1 and 1.2 of the SSI Report.

1.2 Plan Organization

This Plan includes the following sections:

- Section 1: Introduction;
- Section 2: General and Background Information;
- Section 3: Supplemental Groundwater Investigation Summary;
- Section 4: Additional Groundwater Investigation;

¹ By submitting this Plan, neither Pharmacia nor Fisher is waiving any of its rights under federal or state law. Additionally, nothing in this Plan should be deemed an admission of fact or law, or a waiver of any defense or right to contest Pharmacia’s or Fisher’s liability under any state or federal law.

- Section 5: Groundwater Monitoring Plan;
- Section 6: Reporting;
- Section 7: Schedule; and
- Section 8: References.

2. GENERAL AND BACKGROUND INFORMATION

General and background information were provided in Section 2 of the SSI Report, including Site contact, ownership, location, description (current Site conditions, former Site conditions, and proximate off-Site subsurface utilities), removal action, WDNR continuing obligations, and physiographical and geological setting information.

For general reference, the Site contact, ownership, location, and description information is repeated herein.

2.1 Contact Information

Site contact information is summarized in the following table:

Responsible Party Contacts ²	Pharmacia LLC Christopher J. Clark, Vice President 235 E. 42 nd Street, 219/05/01 New York, NY 10017 212.733.5997 Christopher.J.Clark@pfizer.com Mary Jo Anzia, P.E., Pharmacia Project Manager c/o BSI Consulting Services 216 N. Green Bay Rd., Suite 201 Thiensville, WI, 53092 262.292.6080 MaryJo.Anzia@bsigroup.com
Consultant Contact	Geosyntec Consultants Greg Johnson, P.H., P.G., P.E., Senior Engineer 10600 North Port Washington Rd. Suite 100 Mequon, WI 53092 262.834.0226 gjohnson@geosyntec.com

2.2 Site Ownership

The Site is currently owned by the Redevelopment Authority of the City of Milwaukee (RACM).

² Pharmacia is acting on behalf of Fisher in this matter.

2.3 Site Location

The Site location is depicted on **Figure 1**. Site location information is summarized in the following table:

Address	4132 North Holton Street Milwaukee, Wisconsin
Parcel ID (Tax Key number)	2419982000
Public Land Survey System (PLSS) Description	SW ¼ of the SW ¼ of Sec 4, T07N, R22E
Wisconsin Transverse Mercator (WTM) Coordinates	690593, 293172
Latitude, Longitude (WGS84)	43.0920757, -87.9039482

2.4 Site Description

The Site is a 3.7-acre vacant, grass-covered parcel. Site removal action activities included Site capping and a vegetative cover. **Figure 2** depicts the Site boundaries and topography, the three Site cap components (i.e., clay cap, soil cover, and topsoil cover), the former Site building footprint and the approximate extent of removal action³ soil excavation.

On-Site subsurface utilities were removed/abandoned as part of the Site removal action. Proximate off-Site subsurface utilities are depicted on **Figures 3 through 5**.

The Site, and adjacent properties to the east and north, are subject to “continuing obligations” pursuant to a June 1, 2018 WDNR *Approval of Remedial Action and Post-Removal Site Control Plan* as described in Section 2.7 of the SSI Report.

³ Removal action activities were conducted at the Site pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) between 2013 and 2015 in accordance with an Administrative Settlement Agreement and Order on Consent for Removal Action (AOC) with the United States Environmental Protection Agency (USEPA). The USEPA provided a notice of completion of work under the AOC in an August 20, 2018 letter.

3. SUPPLEMENTAL GROUNDWATER INVESTIGATION SUMMARY

The supplemental groundwater investigation results were documented in the SSI Report. This section provides a summary of the results as the basis for the additional groundwater investigation (Section 4) and the groundwater monitoring plan (Section 5).

This section also includes documentation of the April 2021 groundwater sampling event.

3.1 Supplement Groundwater Investigation Results Summary

The supplemental groundwater investigation was conducted in accordance with the WDNR-approved *Updated Site Investigation Work Plan* (Updated Work Plan; Geosyntec, 2019; WDNR, 2019) between August 2020 and January 2021 to evaluate post-removal action groundwater quality and potential preferential migration pathways.

The supplemental groundwater investigation included the installation and sampling (two rounds) of 14 groundwater monitoring wells (MW-1 to MW-14) and three piezometers (PZ-1, PZ-2 and PZ-10). The groundwater samples were analyzed for volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs) (filtered and non-filtered), semi-volatile organic compounds (SVOCs), 1,4-dioxane, and monitored natural attenuation (MNA) geochemical indicator parameters (ethane, ethene, methane and total organic carbon). The following is a summary of the supplemental groundwater investigation results documented in the SSI Report:

Groundwater Flow

- Groundwater elevation data indicate shallow groundwater flow to the east, which is consistent with historical groundwater flow data, and deeper groundwater flow to the east-northeast.

Groundwater Quality

- PCBs (filtered and non-filtered) were not detected in groundwater at any of the on-Site or off-Site groundwater monitoring wells or piezometers;
- The primary post-removal action residual groundwater constituents are CVOCs including tetrachloroethene (PCE), trichloroethene (TCE) and their degradation products.
- The highest concentrations of CVOCs (greater than NR 140 ESs) were detected at on-Site monitoring well/piezometer nest MW-1/PZ-1 (southwest portion of the former building). These residual concentrations appear to be associated with a former area of unsaturated soil CVOCs [and potentially the proximate

former TCE underground storage tank (UST)]. The former area of unsaturated soil CVOCs (depicted on **Figure 3**) was excavated and disposed of as part of the removal action. Residual CVOCs in deeper groundwater (PZ-1) are an order of magnitude less than shallow groundwater (MW-1); however, concentrations of several CVOCs at PZ-1 are greater than NR 140 ESs. The vertical extent of residual CVOC concentrations has not been established at MW-1/PZ-1;

- Post-removal action residual CVOC groundwater concentrations greater than NR 140 ESs do not extend off-Site;⁴ therefore, there is a low probability that proximate off-Site east sanitary and storm sewers (or their trench backfill materials) are significant preferential migration pathways for residual groundwater CVOCs;
- Residual CVOCs in groundwater detected at on-Site monitoring wells MW-2 (northwest portion of the former building) and MW-4 (northeast portion of the Site) (above NR 140 ESs) appear limited and isolated;
- An isolated detection of 1,4-dioxane in off-Site groundwater at monitoring well MW-6 does not appear to be Site related; and
- Reported low concentrations of three SVOCs detected in only the second round of groundwater sampling are not considered significant (detected concentrations are less than NR 140 ESs) and are likely not Site related.

3.2 April 2021 Groundwater Sampling Results

Pursuant to a March 18, 2021 *Additional Groundwater Sampling Event* letter, a third quarterly round of groundwater sampling was conducted between April 26 and 28, 2021. The following is a summary of April 2021 groundwater sampling results:

Groundwater Elevation Data

The April 2021 groundwater depth and elevation data, including previous data, are summarized in **Table 1**. The groundwater elevations for shallow groundwater monitoring wells averaged approximately 0.3 feet higher than the previous sampling round (January 2021) and piezometric elevations for the deeper groundwater piezometers averaged approximately 0.5 feet higher than the previous sampling round.

Shallow groundwater elevation contours for the April 2021 data are included on **Figure 3** and deeper groundwater piezometric elevation contours are depicted on **Figure 4**. As depicted on **Figure 3**, shallow groundwater flow is to the east consistent with the previous two sampling rounds (and historical groundwater flow data) and as depicted on

⁴ Based on supplemental Site investigation sampling data.

Figure 4, deeper groundwater flow is to the east-northeast consistent with the previous two sampling rounds.

Groundwater Analytical Data

The April 2021 groundwater sampling laboratory report and associated data validation report are provided in **Appendix 2**. A summary of the groundwater sample analytical data, including the previous two rounds of data, are provided in **Table 2** and the CVOC data are depicted on **Figures 3 and 4**.

The following is a summary of the April 2021 groundwater sampling analytical results:

- Residual CVOC concentrations along the primary post-removal action residual CVOC groundwater flow path (MW-1/PZ-1, MW-7 and MW-6) are consistent with the previous two sampling rounds with the exception that concentrations of TCE and vinyl chloride (VC) were detected at concentrations just greater than NR 140 ESs at off-Site groundwater monitoring well MW-6 (located approximately 20 feet east of the Site);
- Residual CVOCs detected at on-Site groundwater monitoring well MW-2 at concentrations greater than NR 140 ESs are TCE and vinyl chloride (in addition to PCE, which is the only CVOC previously detected at concentrations greater than NR 140 ESs in the previous two sampling rounds);
- Residual CVOC concentrations in groundwater at MW-4 were consistent with the previous two sampling rounds;
- VC was detected in groundwater at near off-Site monitoring well MW-14 (located approximately 20 feet east of the Site) at an estimated (J-flagged) concentration just greater than detection limit (and NR 140 ES);
- Consistent with the previous two sampling rounds, CVOCs were not detected at on-Site upgradient groundwater monitoring wells MW-3, MW-12 and MW-13, at on-Site piezometer PZ-2, at downgradient groundwater monitoring wells MW-5, MW-8, MW-9, MW-10 or MW-11, or at downgradient piezometer PZ-10. CVOCs were also not detected at off-Site groundwater monitoring well MW-5 with the exception of a low estimated (J-flagged) concentration of cis-1,2-dichloroethene;
- Consistent with the previous two sampling rounds, 1,4-dioxane was detected at off-Site groundwater monitoring well MW-6 at a concentration greater than the NR 140 ES. Trace estimated (J-flagged) concentrations of 1,4-dioxane were also detected at MW-1, MW-5, MW-7 and MW-14 (1,4-dioxane was not detected at these groundwater monitoring wells in the previous two groundwater sampling rounds); and

- Inconsistent with the previous two sampling rounds, low estimated (J-flagged) concentrations of carbon disulfide and methylene chloride⁵ were reported as detected at each groundwater monitoring well and piezometer. In addition, low estimated concentrations of ethylbenzene, xylene, toluene, chloromethane and styrene were detected at some of the wells [concentrations less than NR 140 preventive action limits (PALs) and ESs].

⁵ Methylene chloride is a presumed laboratory artifact based on its common occurrence as a laboratory artifact and its reported presence in every well and piezometer within a very narrow concentration range. Similarly, carbon disulfide is considered a likely laboratory artifact based on its reported presence in every well and piezometer within a very narrow concentration range. Neither methylene chloride nor carbon disulfide were detected in the previous two sampling rounds.

4. ADDITIONAL GROUNDWATER INVESTIGATION

This section provides the additional groundwater investigation scope and procedures.

4.1 Scope

The scope of the additional groundwater investigation will consist of the installation and development of two additional piezometers (PZ-6 and PZ-1A). PZ-6 will be installed adjacent to (nested with) existing groundwater monitoring well MW-6 to further assess the lateral extent of CVOC concentrations greater than NR 140 ESs in deeper groundwater (downgradient of PZ-1). PZ-1A will be installed at the MW-1/PZ-1 well nest location to further assess the vertical extent of CVOC concentrations greater than NR 140 ESs. PZ-6 and PZ-1A will be incorporated, at least initially, into the groundwater monitoring program described in Section 5.

4.2 Procedures

4.2.1 Soil Boring Drilling

The PZ-6 and PZ-1A soil borings will be advanced using sonic drilling⁶. Soil samples will be collected continuously using a 5-foot core barrel. Each soil sample will be classified in accordance with the Unified Soil Classification System (USCS) and field screened for VOCs with a photo-ionization detector (PID). The groundwater level observed during drilling will be recorded.

The PZ-1A soil boring will be double-cased to approximately 30 feet bgs to minimize the potential for cross-contamination (i.e., drag down) during drilling.

PZ-6 will be screened at an elevation similar to PZ-1 (approximately 610 to 615 feet above mean sea level; refer to **Table 1**).

The PZ-1A soil boring depth (and the subsequent screen interval) will be based on field observation of soil conditions with an objective of setting the well screen so the top of the screen is located at a depth of approximately 10 to 15 feet below the bottom of the PZ-1 well screen.

A soil sample will be collected during soil boring drilling from the screen interval of each piezometer for grain size distribution testing in accordance with ASTM D422.

⁶ Sonic drilling is planned due to the hard/dense soil conditions encountered near the bottom of the PZ-1 hollow-stem auger soil boring and the potential that weathered bedrock may be encountered.

A soil boring log (WDNR Form 4400-122) will be completed for each piezometer.

4.2.2 Installation and Development

The piezometers will be installed in accordance with NR 141. The piezometers will be constructed of two-inch nominal diameter Schedule 40 polyvinyl chloride (PVC) riser and 5-foot long Schedule 40 PVC, 0.010-inch machine slotted well screen. The piezometers will be completed at the surface with a lockable protective steel stick-up casing and concrete surface seal. A Well Construction Form (WDNR Form 4400-113A) will be completed for each piezometer.

The piezometers will be developed in accordance with NR 141. Development will include multiple cycles of purging and surging using a surge block. A portable water quality meter will be used to record the pH, conductivity, dissolved oxygen (DO), oxidation reduction potential (ORP), turbidity and temperature of the purged water. A Monitoring Well Development Form (WDNR Form 4400-113B) will be completed for each piezometer.

4.2.3 Surveying

The location and elevation of the piezometers will be surveyed. Surveying will include northing and easting coordinates (State Plane Coordinates) and the ground surface and top of casing elevations [National Geodetic Vertical Datum of 1929 (NGVD 29)].

4.2.4 IDW Management

Soil boring soil cuttings and development water will be contained separately in labeled 55-gallon drums. The drums will be staged in the northwest portion of the Site pending waste classification, profiling and disposal. The water drums will be staged in secondary containment.

5. GROUNDWATER MONITORING PLAN

This section provides a groundwater monitoring plan prepared pursuant to NR 724.17(2) and Section 4.7 of the WDNR guidance RR-699 (*Understanding Chlorinated Hydrocarbon Behavior in Groundwater: Guidance on the Investigation, Assessment and Limitations of Monitored Natural Attenuation*).

5.1 Basis and Objectives

As documented in the SSI Report, the following lines of evidence indicate that the primary on-Site post-removal action residual CVOCs in groundwater are likely effectively naturally attenuating through reductive de-chlorination:

- Significant reduction in total CVOC concentration with distance along the primary post-removal action residual CVOC groundwater flow path (MW-1 → MW-7 → MW-6 → MW-9) in each quarterly monitoring event;
- The presence of elevated ethene concentrations at MW-1 associated with the observed expected CVOC reductive de-chlorination (degradation) pattern (TCE → DCE⁷ → VC → ethene) at MW-1; and
- Elevated methane concentrations at MW-1 indicating reduced groundwater conditions.

In addition to these lines of evidence, MNA groundwater monitoring is planned based on the following rationale pursuant to the NR 726.05(6) closure criteria:

- NR 726.05(6)(a) - “Adequate source control measures have been taken”. The former TCE UST was closed by removal in 1989, die casting operations ceased in 1997, and the excavation and off-Site disposal of unsaturated soil containing CVOCs was conducted during Site removal action activities between 2013 and 2015;
- NR 726.05(6)(d) - “There is no existing or anticipated threat to public health, safety, or welfare or the environment”. Residual CVOCs in groundwater are limited to the Site and two near off-Site locations. “Continuing obligations” have been established for the Site and the two adjacent (downgradient) properties [4132 (R) N. Holton Street and 720 E. Capitol Drive] limiting land use, requiring WDNR approval for construction of a water supply well or new building, and requiring proper management of excavated soil (refer to SSI Report Section 2.7); and

⁷ cis-1,2-dichloroethene (DCE); trans-1,2-DCE; and/or 1,1-DCE

- NR 726.05(6)(e) - “Except for ch. NR 140, applicable public health and environmental laws, including NR 141 and 700 to 754, have been complied with”. Groundwater investigation has been conducted using monitoring wells constructed and developed in accordance with NR 141 and supplemental Site investigation activities have been conducted in accordance with NR 716 and the WDNR-approved Updated Work Plan.

The groundwater monitoring objective is to collect sufficient data to demonstrate that that the two remaining NR 726.05(6) closure 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”; and
- NR 726.05(6)(c) - “The groundwater plume margin is stable or receding”.

5.2 Monitoring Program

This section describes the planned groundwater monitoring program including the monitoring well network, monitoring duration and frequency, monitoring parameters and analytical methods, and applicable standards.

5.2.1 Monitoring Well Network

The following is a summary of the planned groundwater monitoring well network including wells selected for water level measurement, wells selected for sampling and analysis, and associated rationale:

Well	Water Level Data	Sampling and Analysis	Rationale
MW-1	✓	✓	highest residual CVOC concentrations have been detected at this well location; associated with primary post-removal action residual CVOC groundwater flow path
MW-2	✓	✓	apparent limited and isolated residual CVOC groundwater concentrations
MW-3	✓		CVOCs not detected in three sampling rounds; not associated with primary post-removal action residual CVOC groundwater flow path; side gradient of MW-2
MW-4	✓	✓	apparent limited and isolated residual CVOC groundwater concentrations
MW-5	✓	✓	downgradient of MW-2 and MW-4
MW-6	✓	✓	associated with primary post-removal action residual CVOC groundwater flow path
MW-7	✓	✓	associated with primary post-removal action residual CVOC groundwater flow path
MW-8	✓	✓	CVOCs not detected in three sampling rounds; downgradient of MW-14

Well	Water Level Data	Sampling and Analysis	Rationale
MW-9	✓	✓	associated with primary post-removal action residual CVOC groundwater flow path; CVOCs not detected in three sampling rounds (downgradient sentinel well)
MW-10	✓		CVOCs not detected in three sampling rounds; not associated with primary post-removal action residual CVOC groundwater flow path
MW-11	✓		CVOCs not detected in three sampling rounds; not associated with primary post-removal action residual CVOC groundwater flow path; side gradient of MW-4
MW-12	✓		CVOCs not detected in three sampling rounds; upgradient well not associated with primary post-removal action residual CVOC groundwater flow path
MW-13	✓	✓	upgradient well to primary post-removal action residual CVOC groundwater flow path; CVOCs not detected in three sampling rounds (upgradient well)
MW-14	✓	✓	low residual CVOC concentrations, including estimated VC concentration just above the detection limit (and NR 140 ES) detected in third round of sampling
PZ-1	✓	✓	deeper groundwater piezometer associated with primary post-removal action residual CVOC groundwater flow path
PZ-2	✓		CVOCs not detected in three sampling rounds; side gradient of primary post-removal action residual CVOC groundwater flow path
PZ-6	✓	✓ ⁽¹⁾	planned piezometer (refer to Section 4)
PZ-10	✓		CVOCs not detected in three sampling rounds; side gradient of primary post-removal action residual CVOC groundwater flow path
PZ-1A	✓	✓ ⁽¹⁾	planned piezometer (refer to Section 4)

⁽¹⁾ PZ-6 and PZ-1A will be included for a minimum of two rounds of sampling. Inclusion in the monitoring well network thereafter will be based on the results of the initial two rounds of sampling.

The groundwater monitoring network is depicted on **Figure 5**.

5.2.2 Monitoring Duration and Frequency

Pursuant to NR 726.09(2)(e), a minimum of eight successive quarterly rounds of sampling will be completed to support the demonstration that the groundwater monitoring objectives have been met.

Three rounds of quarterly sampling have been completed; therefore, five additional rounds of quarterly sampling are planned.

5.2.3 Monitoring Parameters and Analytical Methods

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

Parameter	Analytical Method	Frequency
Site-specific CVOCs ⁽¹⁾	USEPA 8260	quarterly
1,4-Dioxane	USEPA 8260-SIM Modified or USEPA 8270-SIM	quarterly
methane, ethane and ethene	USEPA 8015B Modified	semi-annually
total organic carbon (TOC)	USEPA 9060 or SM 5310B	semi-annually

⁽¹⁾ PCE; TCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCE; VC; 1,1,1-trichloroethane; 1,1-dichloroethane; and chloroethane.

5.2.4 Applicable Standards

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

5.3 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, 1996). 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.

5.4 Data Quality Plan

5.4.1 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.

5.4.2 Data Validation

The quality of the groundwater sample laboratory analytical data will be validated 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). Data validation qualifiers will be added to groundwater analytical summary tables. Data validation reports will be provided in the semi-annual groundwater monitoring reports.

5.5 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 results (Site-specific CVOCs, 1,4-dioxane, and MNA geochemical indicator parameters) will be tabulated;
- Time versus concentration (and water level) plots will be generated and updated for groundwater monitoring wells with detected CVOCs; and
- A distance versus concentration plot will be generated and updated for the primary post-removal action residual CVOC groundwater flow path.

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

5.6 Decision Criteria for Adjustments to Monitoring Program

Based on the limited extent of post-removal action residual CVOCs in groundwater and the predictable 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, CVOC concentration trends, the spatial distribution of CVOCs, or CVOC degradation patterns.

5.7 IDW Management

Groundwater sampling purge water will be contained in labeled 55-gallon drums. The drums will be staged in secondary containment in the northwest portion of the Site pending disposal.

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).⁸ The semi-annual reports will include the validated data and data assessment described in Section 5.5.

The PZ-6 and PZ-1A soil boring logs and well construction and development forms will be included in the first semi-annual groundwater monitoring report.

NR 724.17(3m) Waiver Request: Based on the lack of receptors to post-removal action Site (and near adjacent property) residual CVOC groundwater concentrations greater than NR 140 ESs, Pharmacia requests a waiver to the NR 724.17(3m) laboratory analytical report submittal requirement (i.e., that laboratory reports be submitted to WDNR within 10 business days of receipt from the laboratory). Pharmacia proposes to submit the validated laboratory reports with the semi-annual groundwater monitoring reports.

⁸ 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 next (fourth) quarterly groundwater monitoring event is scheduled for July 2021. The first semi-annual groundwater monitoring report will be submitted to WDNR following the July 2021 sampling event. The final (eighth) quarterly event will be conducted in July 2022.

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

8. REFERENCES

ASTM (2007). *Standard Test Method for Particle-Size Analysis of Soils*, ASTM D422-63.

Geosyntec Consultants (2021a). *Supplemental Site Investigation Report*, Milwaukee Die Casting Company Site; prepared on behalf Pharmacia LLC; May 11, 2021.

Geosyntec Consultants (2021b). *Additional Groundwater Sampling Event* letter, Milwaukee Die Casting Company Site; prepared on behalf Pharmacia LLC; March 18, 2021.

Geosyntec Consultants (2019). *Updated Site Investigation Work Plan*, Milwaukee Die Casting Company Site; prepared on behalf of Pharmacia LLC; November 12, 2019.

WDNR (2019). Site Investigation Work Plan approval letter; Milwaukee Die Casting Company Site; December 19, 2019.

WDNR (2018). Approval of Remedial Action and Post-Removal Site Control Plan letter; issued to Pharmacia and RACM; June 1, 2018.

WDNR (2014). *Understanding Chlorinated Hydrocarbon Behavior in Groundwater: Guidance on the Investigation, Assessment and Limitations of Monitored Natural Attenuation*, WDNR Publication RR-699, October 2014.

USGS (2013). Milwaukee, Wisconsin, 7.5 Minute Series (Topographic) Quadrangle Map, 2013.

TABLES

TABLE 1
Summary of Groundwater Elevation Data
Milwaukee Die Casting Company Site
4132 North Holton Street
Milwaukee, Wisconsin

Well	Ground Surface Elevation	TOC Elevation	Screen Interval Elevations		Groundwater Level ¹											
					9/23/2020			10/23/2020			1/18/2021			4/26/2021		
					Bottom	Top	Depth	Elevation	Depth	Elevation	Depth	Elevation	Depth	Elevation		
					(ft amsl)	(ft amsl)	(ft bTOC)	(ft bgs)	(ft amsl)	(ft bTOC)	(ft bgs)	(ft amsl)	(ft bTOC)	(ft bgs)	(ft amsl)	(ft bTOC)
MW-1	646.55	648.74	631.15	641.15	6.64	4.45	642.10	--	--	--	6.09	3.90	642.65	5.62	3.43	643.12
MW-2	647.67	650.20	632.67	642.67	8.17	5.64	642.03	--	--	--	8.03	5.50	642.17	7.10	4.57	643.10
MW-3	648.57	650.91	633.07	643.07	10.13	7.79	640.78	--	--	--	8.46	6.12	642.45	7.94	5.60	642.97
MW-4	641.68	644.48	624.18	634.18	7.89	5.09	636.59	--	--	--	6.78	3.98	637.70	6.94	4.14	637.54
MW-5	638.52	641.49	621.22	631.22	16.68	13.70	624.81	13.86	10.88	627.63	11.94	8.96	629.55	10.28	7.30	631.21
MW-6	639.26	641.59	621.26	631.26	11.76	9.43	629.83	--	--	--	11.83	9.50	629.76	11.46	9.13	630.13
MW-7	641.78	644.17	626.88	636.88	4.82	2.43	639.35	--	--	--	4.05	1.66	640.12	4.26	1.87	639.91
MW-8	638.03	640.47	621.23	631.23	11.40	8.96	629.07	--	--	--	6.96	4.52	633.51	7.18	4.74	633.29
MW-9	635.74	638.33	620.54	630.54	10.63	8.05	627.70	--	--	--	8.05	5.47	630.28	6.87	4.29	631.46
MW-10	637.28	639.42	618.98	628.98	17.81	15.67	621.61	16.11	13.97	623.31	11.31	9.16	628.11	10.05	7.90	629.37
MW-11	637.66	640.29	622.36	632.36	16.97	14.35	623.32	14.52	11.90	625.77	5.15	2.53	635.14	6.15	3.53	634.14
MW-12	651.07	653.30	635.67	645.67	11.39	9.15	641.91	--	--	--	10.84	8.60	642.46	10.19	7.95	643.11
MW-13	650.91	653.17	635.61	645.61	10.44	8.19	642.73	--	--	--	9.72	7.47	643.45	9.52	7.27	643.65
MW-14	640.35	642.81	622.55	632.55	8.06	5.59	634.75	--	--	--	6.46	3.99	636.35	7.92	5.45	634.89
PZ-1	646.74	648.89	610.64	615.64	6.93	4.78	641.96	--	--	--	6.42	4.27	642.47	6.01	3.86	642.88
PZ-2	648.21	650.86	611.11	616.11	9.98	7.33	640.88	--	--	--	9.69	7.04	641.17	9.17	6.52	641.69
PZ-10	637.53	640.15	604.83	609.83	23.55	20.93	616.60	--	--	--	23.74	21.12	616.41	23.25	20.63	616.90

Notes:

¹ - measured prior to groundwater sampling

ft amsl - feet above mean sea level

ft bgs - feet below ground surface

ft bTOC - feet below top of casing

TOC - top of casing

-- - not measured

TABLE 2
Summary of Groundwater Sample Analytical Results
 Milwaukee Die Casting Company Site
 4132 North Holton Street
 Milwaukee, Wisconsin

Well Identification	MW-1			PZ-1			MW-2			PZ-2			NR 140 Groundwater			
	5-15			31-36			5-15			32-37			Quality Standard			
Approximate Screen Interval (ft bgs)													PAL	ES		
Sample Date	9/25/2020	1/21/2021	4/28/2021	9/25/2020	1/20/2021	4/28/2021	9/24/2020	1/20/2021	4/28/2021	4/28/2021	9/25/2020	1/19/2021	4/28/2021			
Analytical Parameters						DUP										
Detected VOCs (µg/L)																
CVOCs																
1,1,1-Trichloroethane	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 1.00	< 2.00	< 2.00	< 1.00	40	200
1,1-Dichloroethane	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 1.00	< 2.00	< 2.00	< 1.00	85	850
1,1-Dichloroethene	9.52	13.9	14.2	< 4.00	< 4.00	< 4.00	2.75	< 4.00	< 4.00	< 1.00	< 1.00	< 4.00	< 4.00	< 1.00	0.7	7
cis-1,2-Dichloroethene	3150	5440	4680	128 J	896	837	1390	4.35	5.31	28.8	32.6	< 2.00	< 2.00	< 1.00	7	70
Tetrachloroethene	2230	4190	3110	325	192	188	147	5.55	6.99	22.0	28.2	< 2.00	< 2.00	< 1.00	0.5	5
trans-1,2-Dichloroethene	22.2	34.8	63.4	< 2.00	4.07	4.29	10.6	< 2.00	< 2.00	0.700 J	0.900 J	< 2.00	< 2.00	< 1.00	20	100
Trichloroethene	2580	4080	3000	109	110	108	115	< 2.00	< 2.00	11.6	12.8	< 2.00	< 2.00	< 1.00	0.5	5
Vinyl chloride	217	475	540	10.9	8.32	8.27	6.80	< 2.00	< 2.00	5.90	6.05	< 2.00	< 2.00	< 2.50	0.02	0.2
Other Reported VOCs																
Carbon disulfide	< 2.00	< 2.00	1.90 J	< 2.00	< 2.00	< 2.00	2.10 J	< 2.00	< 2.00	2.40 J	2.30 J	< 2.00	< 2.00	2.00 J	200	1000
Chloromethane	< 4.00	< 4.00	< 2.50	< 4.00	< 4.00	< 4.00	< 2.50	< 4.00	< 4.00	< 2.50	< 2.50	< 4.00	< 4.00	< 2.50	3	30
Ethylbenzene	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.150 J U	< 1.00	< 1.00	< 1.00	140	700
m,p-Xylene	< 4.00	< 4.00	0.550 J	< 4.00	< 4.00	< 4.00	0.500 J	< 4.00	< 4.00	0.550 J	< 2.00	< 4.00	< 4.00	< 2.00	--	--
Methylene chloride ⁽²⁾	< 4.00	< 4.00	3.75 J U	< 4.00	< 4.00	< 4.00	3.50 J U	< 4.00	< 4.00	5.00 J U	4.70 J U	< 4.00	< 4.00	3.70 J U	0.5	5
o-Xylene	< 1.00	< 1.00	0.450 J	< 1.00	< 1.00	< 1.00	0.300 J	< 1.00	< 1.00	0.300 J	0.250 J	< 1.00	< 1.00	0.250 J	--	--
Styrene	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 4.00	0.250 J U	< 4.00	< 4.00	0.250 J U	< 1.00	< 4.00	< 4.00	< 1.00	10	100
Toluene	< 2.00	< 2.00	1.20 J	< 2.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 1.00	< 2.00	< 2.00	< 1.00	160	800
Xylenes, Total	< 6.00	< 6.00	1.00 J	< 6.00	< 6.00	< 6.00	0.800 J	< 6.00	< 6.00	0.850 J	< 3.00	< 6.00	< 6.00	< 3.00	400	2000
PCBs, Total (unfiltered)	< 0.515	< 0.522	--	< 0.519	< 0.518	< 0.525	--	< 0.529	< 0.525	--	--	< 0.511	< 0.522	--	0.003	0.03
PCBs, Total (filtered)	< 0.531	< 0.516	--	< 0.510	< 0.528	< 0.525	--	< 0.540	< 0.519	--	--	< 0.508	< 0.520	--	0.003	0.03
Detected SVOCs (µg/L)																
Benzo(a)anthracene	< 0.315	< 0.313	--	< 0.335	< 0.320	0.222 J	--	< 0.339	< 0.314	--	--	< 0.311	< 0.311	--	--	--
Chrysene	< 0.315	< 0.313	--	< 0.335	< 0.320	0.159 J	--	< 0.339	< 0.314	--	--	< 0.311	< 0.311	--	0.02	0.2
Phenol	< 0.526	< 0.521	--	< 0.559	< 0.534	< 0.529	--	< 0.564	< 0.523	--	--	< 0.518	< 0.519	--	400	2000
1,4-Dioxane (µg/L)	< 0.200 UJ	< 0.200	0.120 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.3	3
MNA Geochemical Parameters																
Ethane (µg/L)	< 1.2	1.3 J	4.0 J	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	5.8	7.1	2.1 J	2.1 J	1.6 J	--	--
Ethene (µg/L)	33.3	33.8	40.9	1.8 J	1.4 J	1.5 J	< 1.2	< 1.2	< 1.2	< 1.2	1.3 J	1.2 J	< 1.2	< 1.2	--	--
Methane (µg/L)	147	241	1030	5.0	4.1	4.1	2.9	2.0 J	234	892 J	1420 J	26.6	35.8	40.1	--	--
TOC (mg/L)	3.25 J	2.80	3.03	3.92 J	8.57	9.04	6.60	1.93 J	1.40	7.38	7.29	2.98 J	2.27	1.63	--	--

Notes:

bold - concentration greater than NR 140 PAL

boxed - concentration greater than NR 140 ES

italics - data validation qualifier (refer to data validation reports)

--⁽¹⁾ - slow groundwater recovery prevented the collection of a sufficient volume of water for all the planned laboratory analytical parameters for MW-10 and MW-11 for September 2020 sampling event

--⁽²⁾ - presumed laboratory artifact

-- - not analyzed or not established

CVOCs - chlorinated volatile organic compounds

DUP - duplicate

ES - NR 140 Enforcement Standard

ft bgs - feet below ground 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

PAL - NR 140 Preventive Action Limit

PCBs - polychlorinated biphenyls

SVOCs - semi-volatile organic compounds

TOC - total organic carbon

µg/L - micrograms per liter

VOCs - volatile organics compounds

TABLE 2
Summary of Groundwater Sample Analytical Results
 Milwaukee Die Casting Company Site
 4132 North Holton Street
 Milwaukee, Wisconsin

Well Identification	MW-3				MW-4			MW-5			MW-6				NR 140 Groundwater Quality Standard		
	5.5-15.5				7.5-17.5			7-17			8-18						
Approximate Screen Interval (ft bgs)	9/23/2020	9/23/2020	1/18/2021	4/27/2021	9/24/2020	1/20/2021	4/28/2021	10/29/2020	1/21/2021	4/27/2021	9/25/2020	1/20/2021	4/28/2021	4/28/2021	PAL	ES	
Sample Date																	
Analytical Parameters		DUP											DUP		DUP		
Detected VOCs (µg/L)																	
CVOCs																	
1,1,1-Trichloroethane	< 2.00	< 2.00	< 2.00	< 1.00	17.3	13.7	7.90	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 2.00	5.70	6.45	40	200
1,1-Dichloroethane	< 2.00	< 2.00	< 2.00	< 1.00	7.21	8.53	10.2	< 2.00	< 2.00	< 1.00	< 2.00	4.33 J	< 2.00 UJ	6.30	6.65	85	850
1,1-Dichloroethene	< 4.00	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 4.00	< 1.00	< 1.00	0.7	7
cis-1,2-Dichloroethene	< 2.00	< 2.00	< 2.00	< 1.00	27.8	23.4	20.2	< 2.00	< 2.00	1.80 J	6.39	22.3	19.0	30.4	31.8	7	70
Tetrachloroethene	< 2.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 2.00	< 1.00	< 1.00	0.5	5
trans-1,2-Dichloroethene	< 2.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	1.15 J	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 2.00	1.65 J	2.00 J	20	100
Trichloroethene	< 2.00	< 2.00	< 2.00	< 1.00	10.6	7.57	5.15	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 2.00	5.90	6.00	0.5	5
Vinyl chloride	< 2.00	< 2.00	< 2.00	< 2.50	4.31	12.2	15.9	< 2.00	< 2.00	< 2.50	< 2.00	< 2.00	< 2.00	1.15 J	1.15 J	0.02	0.2
Other Reported VOCs																	
Carbon disulfide	< 2.00	< 2.00	< 2.00	2.25 J	< 2.00	< 2.00	2.15 J	< 2.00	< 2.00	2.05 J	< 2.00	< 2.00	< 2.00	2.25 J	2.25 J	200	1000
Chloromethane	< 4.00	< 4.00	< 4.00	< 2.50	< 4.00	< 4.00	< 2.50	< 4.00	< 4.00	< 2.50	< 4.00	< 4.00	< 4.00	< 2.50	< 2.50	3	30
Ethylbenzene	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.150 J U	< 1.00	< 1.00	0.150 J U	< 1.00	< 1.00	< 1.00	< 1.00	0.150 J U	140	700
m,p-Xylene	< 4.00	< 4.00	< 4.00	< 2.00	< 4.00	< 4.00	0.500 J	< 4.00	< 4.00	0.500 J	< 4.00	< 4.00	< 4.00	0.500 J	0.450 J	--	--
Methylene chloride ⁽²⁾	< 4.00	< 4.00	< 4.00	4.25 J U	< 4.00	< 4.00	4.25 J U	< 4.00	< 4.00	4.05 J U	< 4.00	< 4.00	< 4.00	3.95 J U	4.15 J U	0.5	5
o-Xylene	< 1.00	< 1.00	< 1.00	0.250 J	< 1.00	< 1.00	0.250 J	< 1.00	< 1.00	0.300 J	< 1.00	< 1.00	< 1.00	0.250 J	< 1.00	--	--
Styrene	< 4.00	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 4.00	< 1.00	< 1.00	10	100
Toluene	< 2.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 2.00	< 1.00	< 1.00	160	800
Xylenes, Total	< 6.00	< 6.00	< 6.00	< 3.00	< 6.00	< 6.00	0.750 J	< 6.00	< 6.00	0.800 J	< 6.00	< 6.00	< 6.00	0.750 J	< 3.00	400	2000
PCBs, Total (unfiltered)	< 0.524	< 0.508	< 0.519	--	< 0.535	< 0.518	--	< 0.617	< 0.542	--	< 0.568	< 0.524	< 0.506	--	--	0.003	0.03
PCBs, Total (filtered)	< 0.507	< 0.507	< 0.530	--	< 0.532	< 0.520	--	< 0.527	< 0.520	--	< 0.534	< 0.524	< 0.521	--	--	0.003	0.03
Detected SVOCs (µg/L)																	
Benzo(a)anthracene	< 0.314	< 0.312	< 0.324	--	< 0.321	< 0.313	--	< 0.315	< 0.328	--	< 0.340	< 0.315	< 0.303	--	--	--	--
Chrysene	< 0.314	< 0.312	< 0.324	--	< 0.321	< 0.313	--	< 0.315	< 0.328	--	< 0.340	< 0.315	< 0.303	--	--	0.02	0.2
Phenol	< 0.523	< 0.521	< 0.539	--	< 0.535	< 0.521	--	< 0.526	< 0.547	--	< 0.567	< 0.524	< 0.505	--	--	400	2000
1,4-Dioxane (µg/L)	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200 UJ	< 0.200	< 0.200	0.0700 J	28.2	23.9	23.4	19.0	19.6	0.3	3
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	< 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	< 1.2	< 1.2	< 1.2	< 1.2	--	--
Methane (µg/L)	1.8J	1.4J	< 0.66	< 0.66	< 0.66	58.1	134	1.2J	< 0.66	< 0.66	9.4	23.9	20.3	27.6	32.0	--	--
TOC (mg/L)	3.83 J	3.82 J	2.69	2.48	10.8 J	6.38	2.52	3.86	2.17	1.78	6.84 J	3.78	3.76	3.12	3.04	--	--

Notes:

bold - concentration greater than NR 140 PAL

boxed - concentration greater than NR 140 ES

italics - data validation qualifier (refer to data validation reports)

--⁽¹⁾ - slow groundwater recovery prevented the collection of a sufficient volume of water for all the planned laboratory analytical parameters for MW-10 and MW-11 for September 2020 sampling event

--⁽²⁾ - presumed laboratory artifact

-- - not analyzed or not established

CVOCs - chlorinated volatile organic compounds

DUP - duplicate

ES - NR 140 Enforcement Standard

ft bgs - feet below ground 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

PAL - NR 140 Preventive Action Limit

PCBs - polychlorinated biphenyls

SVOCs - semi-volatile organic compounds

TOC - total organic carbon

µg/L - micrograms per liter

VOCs - volatile organics compounds

TABLE 2
Summary of Groundwater Sample Analytical Results
 Milwaukee Die Casting Company Site
 4132 North Holton Street
 Milwaukee, Wisconsin

Well Identification	MW-7			MW-8			MW-9			MW-10			PZ-10			NR 140 Groundwater	
Approximate Screen Interval (ft bgs)	5-15			7-17			5-15			8-18			28-33			Quality Standard	
Sample Date	9/24/2020	1/19/2021	4/28/2021	9/24/2020	1/19/2021	4/27/2021	9/24/2020	1/19/2021	4/27/2021	10/29/2020	1/20/2021	4/27/2021	9/25/2020	1/20/2021	4/26/2021	PAL	ES
Analytical Parameters																	
Detected VOCs (µg/L)																	
CVOCs																	
1,1,1-Trichloroethane	< 2.00	< 2.00	5.55	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	40	200
1,1-Dichloroethane	< 2.00	< 2.00	4.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	85	850
1,1-Dichloroethene	< 4.00	< 4.00	1.30 J	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 1.00	0.7	7
cis-1,2-Dichloroethene	48.8	222	402	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	7	70
Tetrachloroethene	< 2.00	< 2.00	1.35 J	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	0.5	5
trans-1,2-Dichloroethene	< 2.00	10.4	21.6	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	20	100
Trichloroethene	< 2.00	7.12	18.4	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	0.5	5
Vinyl chloride	< 2.00	< 2.00	< 2.50	< 2.00	< 2.00	< 2.50	< 2.00	< 2.00	< 2.50	< 2.00	< 2.00	< 2.50	< 2.00	< 2.00	< 2.50	0.02	0.2
Other Reported VOCs																	
Carbon disulfide	< 2.00	< 2.00	2.35 J	< 2.00	< 2.00	2.15 J	< 2.00	< 2.00	2.40 J	< 2.00	< 2.00	2.20 J	< 2.00	< 2.00	2.20 J	200	1000
Chloromethane	< 4.00	< 4.00	< 2.50	< 4.00	< 4.00	1.35 J	< 4.00	< 4.00	< 2.50	< 4.00	< 4.00	< 2.50	< 4.00	< 4.00	< 2.50	3	30
Ethylbenzene	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	140	700
m,p-Xylene	< 4.00	< 4.00	0.450 J	< 4.00	< 4.00	0.450 J	< 4.00	< 4.00	0.450 J	< 4.00	< 4.00	0.450 J	< 4.00	< 4.00	0.500 J	--	--
Methylene chloride ⁽²⁾	< 4.00	< 4.00	3.05 J U	< 4.00	< 4.00	4.45 J U	< 4.00	< 4.00	4.90 J U	< 4.00	< 4.00	4.00 J U	< 4.00	< 4.00	4.05 J U	0.5	5
o-Xylene	< 1.00	< 1.00	0.300 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.300 J	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.300 J	--	--
Styrene	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 1.00	< 4.00	< 4.00	< 1.00	10	100
Toluene	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	< 2.00	< 2.00	< 1.00	160	800
Xylenes, Total	< 6.00	< 6.00	0.750 J	< 6.00	< 6.00	< 3.00	< 6.00	< 6.00	0.750 J	< 6.00	< 6.00	< 3.00	< 6.00	< 6.00	0.800 J	400	2000
PCBs, Total (unfiltered)	< 0.508	< 0.514	--	< 0.508	< 0.509	--	< 0.515	< 0.524	--	< 0.546	< 0.508	--	< 0.572	< 0.560	--	0.003	0.03
PCBs, Total (filtered)	< 0.520	< 0.523	--	< 0.508	< 0.517	--	< 0.518	< 0.531	--	< 0.512	< 0.526	--	< 0.533	< 0.559	--	0.003	0.03
Detected SVOCs (µg/L)																	
Benzo(a)anthracene	< 0.315	< 0.306	--	< 0.310	< 0.311	--	< 0.307	< 0.313	--	-- ⁽¹⁾	< 0.315	--	< 0.329	< 0.307	--	--	--
Chrysene	< 0.315	< 0.306	--	< 0.310	< 0.311	--	< 0.307	< 0.313	--	-- ⁽¹⁾	< 0.315	--	< 0.329	< 0.307	--	0.02	0.2
Phenol	< 0.526	< 0.510	--	< 0.517	< 0.518	--	< 0.512	0.772 J	--	-- ⁽¹⁾	< 0.524	--	< 0.549	< 0.511	--	400	2000
1,4-Dioxane (µg/L)	< 0.200	< 0.200	0.120 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.3	3
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⁾	< 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⁾	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	--	--
Methane (µg/L)	4.3	73.3	218	0.74 J	< 0.66	< 0.66	1.7 J	1.1 J	< 0.66	-- ⁽¹⁾	< 0.66	2.7 J	0.81 J	1.5 J	< 0.66	--	--
TOC (mg/L)	3.05 J	2.29	2.11	3.88 J	2.74	2.86	3.85 J	4.20	2.64	-- ⁽¹⁾	1.99	1.22	2.13 J	1.24	0.941 J	--	--

Notes:

bold - concentration greater than NR 140 PAL

boxed - concentration greater than NR 140 ES

italics - data validation qualifier (refer to data validation reports)

--⁽¹⁾ - slow groundwater recovery prevented the collection of a sufficient volume of water for all the planned laboratory analytical parameters for MW-10 and MW-11 for September 2020 sampling event

--⁽²⁾ - presumed laboratory artifact

-- - not analyzed or not established

CVOCs - chlorinated volatile organic compounds

DUP - duplicate

ES - NR 140 Enforcement Standard

ft bgs - feet below ground 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

PAL - NR 140 Preventive Action Limit

PCBs - polychlorinated biphenyls

SVOCs - semi-volatile organic compounds

TOC - total organic carbon

µg/L - micrograms per liter

VOCs - volatile organics compounds

TABLE 2
Summary of Groundwater Sample Analytical Results
 Milwaukee Die Casting Company Site
 4132 North Holton Street
 Milwaukee, Wisconsin

Well Identification	MW-11			MW-12				MW-13			MW-14			NR 140 Groundwater		
Approximate Screen Interval (ft bgs)	5-15			5-15				5-15			8-18			Quality Standard		
Sample Date	10/29/2020	1/19/2021	4/27/2021	9/23/2020	9/23/2020	1/18/2021	4/27/2021	9/23/2020	1/18/2021	4/27/2021	9/23/2020	1/19/2021	4/28/2021	PAL	ES	
Analytical Parameters					DUP											
Detected VOCS (µg/L)																
CVOCS																
1,1,1-Trichloroethane	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<1.00	<2.00	<1.00	40	200	
1,1-Dichloroethane	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<1.00	<2.00	<1.00	85	850	
1,1-Dichloroethene	<4.00	<4.00	<1.00	<4.00	<4.00	<4.00	<1.00	<4.00	<4.00	<4.00	<1.00	<4.00	<1.00	0.7	7	
cis-1,2-Dichloroethene	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<1.00	21.7	20.3	28.7	7	70
Tetrachloroethene	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<1.00	<2.00	<1.00	0.5	5	
trans-1,2-Dichloroethene	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<1.00	<2.00	<2.00	2.90	20	100
Trichloroethene	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<1.00	<2.00	<2.00	<1.00	0.5	5
Vinyl chloride	<2.00	<2.00	<2.50	<2.00	<2.00	<2.00	<2.50	<2.00	<2.00	<2.50	<2.00	<2.00	2.00 J	0.02	0.2	
Other Reported VOCS																
Carbon disulfide	<2.00	<2.00	2.15 J	<2.00	<2.00	<2.00	2.00 J	<2.00	<2.00	2.15 J	<2.00	<2.00	2.20 J	200	1000	
Chloromethane	<4.00	<4.00	1.40 J	<4.00	<4.00	<4.00	<2.50	<4.00	<4.00	<2.50	<4.00	<4.00	<2.50	3	30	
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	140	700	
m,p-Xylene	<4.00	<4.00	<2.00	<4.00	<4.00	<4.00	0.450 J	<4.00	<4.00	0.450 J	<4.00	<4.00	<2.00	--	--	
Methylene chloride ⁽²⁾	<4.00	<4.00	4.00 J U	<4.00	<4.00	<4.00	4.05 J U	<4.00	<4.00	3.75 J U	<4.00	<4.00	3.65 J U	0.5	5	
o-Xylene	<1.00	<1.00	0.250 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.250 J	--	--	
Styrene	<4.00	<4.00	<1.00	<4.00	<4.00	<4.00	<1.00	<4.00	<4.00	<1.00	<4.00	<4.00	<1.00	10	100	
Toluene	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<1.00	<2.00	<2.00	<1.00	<2.00	<2.00	<1.00	160	800	
Xylenes, Total	<6.00	<6.00	<3.00	<6.00	<6.00	<6.00	<3.00	<6.00	<6.00	<3.00	<6.00	<6.00	<3.00	400	2000	
PCBs, Total (unfiltered)	<0.533	<0.532	--	<0.524	<0.534	<0.519	--	<0.517	<0.508	--	<0.531	<0.529	--	0.003	0.03	
PCBs, Total (filtered)	-- ⁽¹⁾	<0.515	--	<0.532	<0.525	<0.517	--	<0.513	<0.510	--	<0.530	<0.523	--	0.003	0.03	
Detected SVOCs (µg/L)																
Benzo(a)anthracene	-- ⁽¹⁾	<0.320	--	<0.326	<0.324	<0.318	--	<0.311	<0.307	--	<0.318	<0.320	--	--	--	
Chrysene	-- ⁽¹⁾	<0.320	--	<0.326	<0.324	<0.318	--	<0.311	<0.307	--	<0.318	<0.320	--	0.02	0.2	
Phenol	-- ⁽¹⁾	<0.534	--	<0.544	<0.539	<0.531	--	<0.518	<0.511	--	<0.531	<0.533	--	400	2000	
1,4-Dioxane (µg/L)	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.230 J	0.3	3	
MNA Geochemical Parameters																
Ethane (µg/L)	-- ⁽¹⁾	<1.2	<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⁾	<1.2	<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)	-- ⁽¹⁾	<0.66	<0.66	1.1 J	0.81 J	<0.66	<0.66	1.3 J	15.6	<0.66	1.3 J	1.2 J	9.6	--	--	
TOC (mg/L)	-- ⁽¹⁾	2.40	1.81	2.75 J	2.44 J	1.08	1.09	2.39 J	1.66	1.22	2.84 J	2.04	1.59	--	--	

Notes:

bold - concentration greater than NR 140 PAL

boxed - concentration greater than NR 140 ES

italics - data validation qualifier (refer to data validation reports)

--⁽¹⁾ - slow groundwater recovery prevented the collection of a sufficient volume of water for all the planned laboratory analytical parameters for MW-10 and MW-11 for September 2020 sampling event

--⁽²⁾ - presumed laboratory artifact

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CVOCS - chlorinated volatile organic compounds

DUP - duplicate

ES - NR 140 Enforcement Standard

ft bgs - feet below ground 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

PAL - NR 140 Preventive Action Limit

PCBs - polychlorinated biphenyls

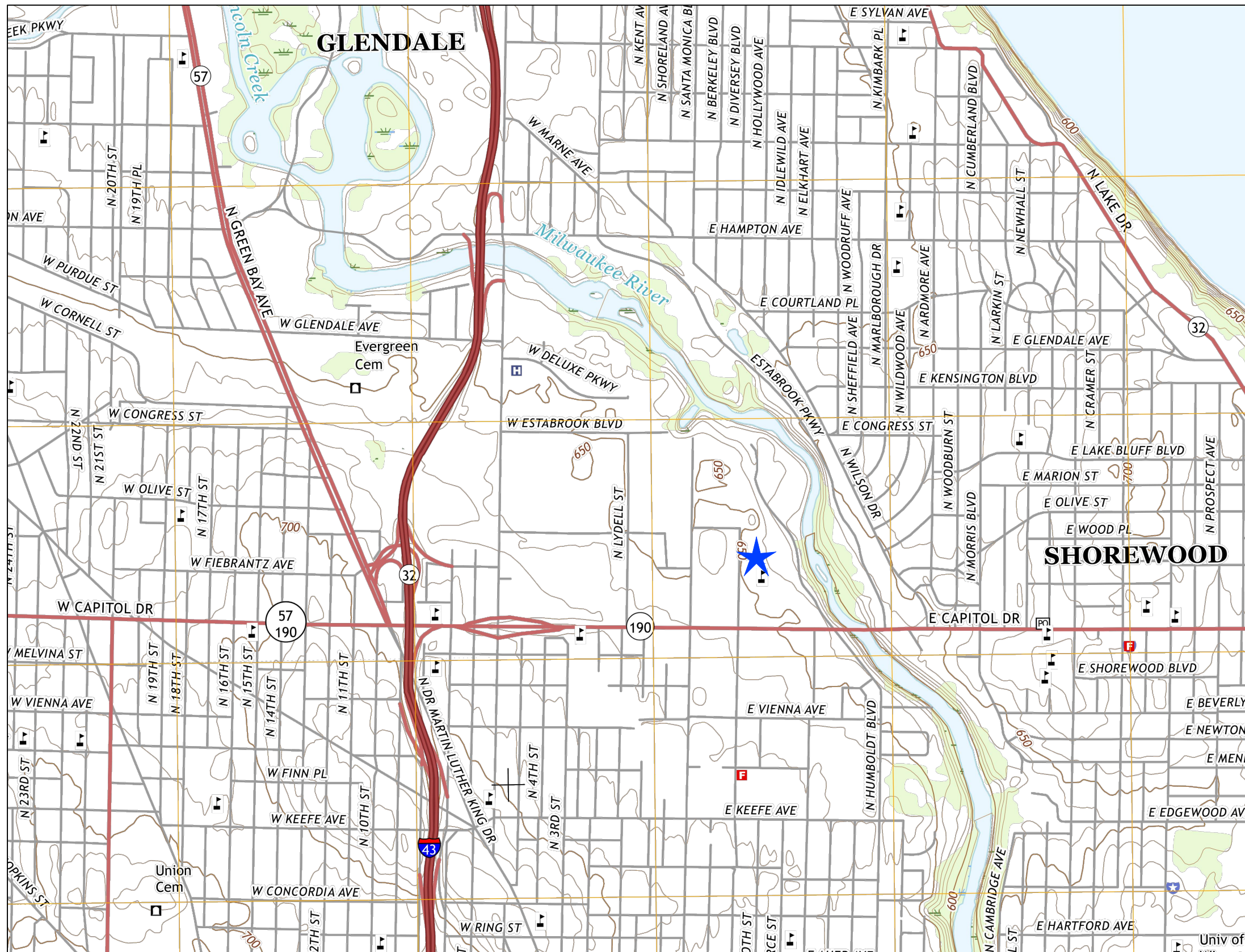
SVOCs - semi-volatile organic compounds

TOC - total organic carbon

µg/L - micrograms per liter

VOCs - volatile organics compounds

FIGURES



LEGEND








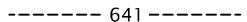




APPROXIMATE SITE LOCATION

REFERENCE: USGS MILWAUKEE, WI - 2016
 SCALE: 1" = 1500' (APPROXIMATE)

Geosyntec consultants		
CLIENT:	PHARMACIA, LLC.	
PROJECT:	MILWAUKEE DIE CASTING COMPANY (MDCC) SITE 4132 NORTH HOLTON STREET MILWAUKEE, WISCONSIN	
TITLE:	SITE LOCATION MAP	
PROJECT:	CHW8271N	FIGURE NO.: 1
DATE:	May 18, 2021	FILE NO.: 2105MDCC916
		DRAWING NO.: 1 OF 5



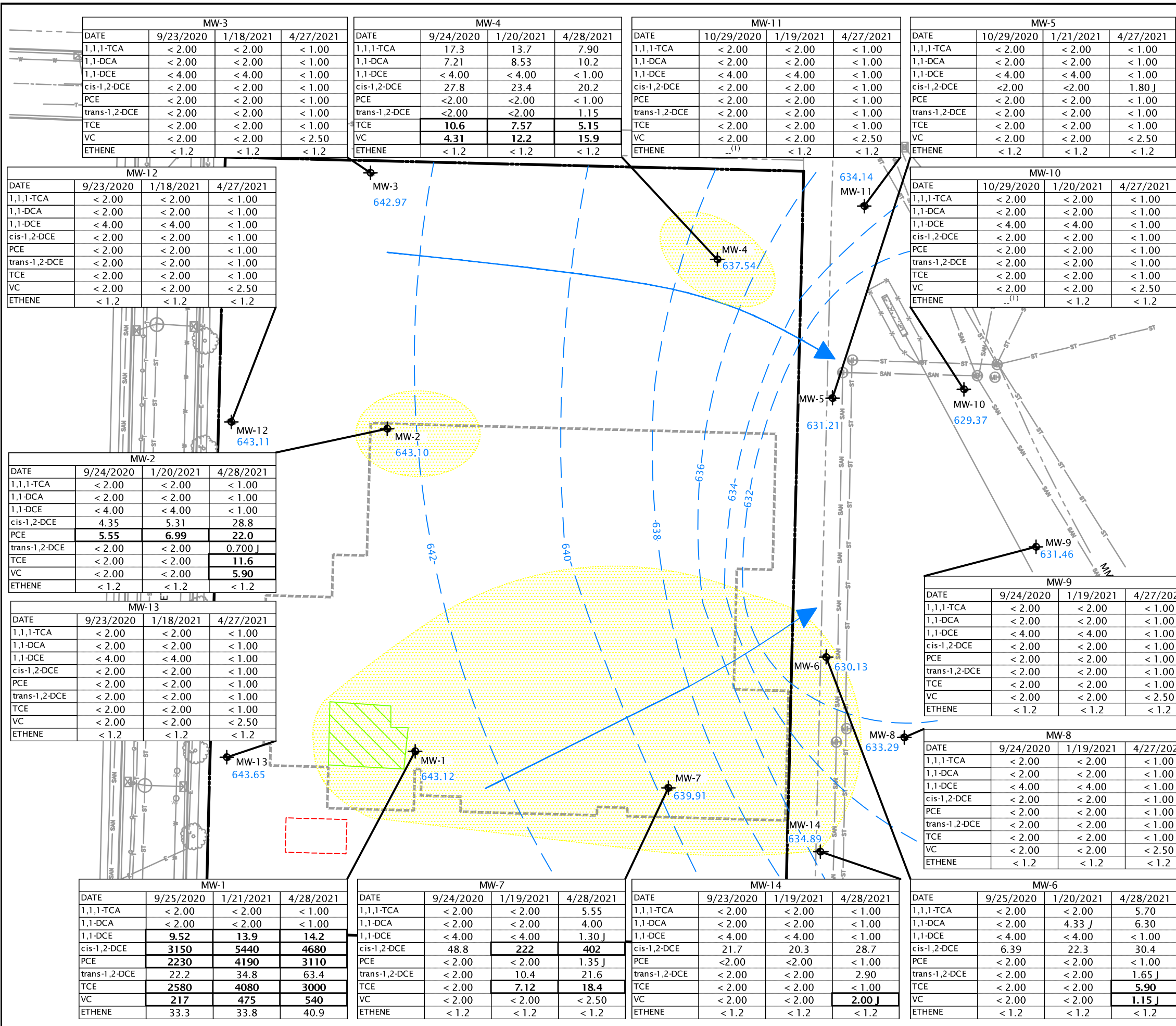
LEGEND

-  APPROXIMATE SITE PROPERTY LINE
-  APPROXIMATE ADJACENT PROPERTY LINES
-  APPROXIMATE FORMER BUILDING FOOTPRINT
-  APPROXIMATE EXTENT OF REMOVAL ACTION IMPACTED SOIL REMOVAL
-  1-FT GROUND SURFACE ELEVATION CONTOUR LINE (FEET ABOVE MEAN SEA LEVEL)
-  TRANSMISSION TOWER GUY WIRE FENCE
-  APPROXIMATE OVERHEAD TRANSMISSION TOWER GUY WIRE
-  CLAY CAP
-  SOIL COVER
-  TOPSOIL COVER



Geosyntec consultants		
CLIENT:	PHARMACIA, LLC.	
PROJECT:	MILWAUKEE DIE CASTING COMPANY (MDCC) SITE 4132 NORTH HOLTON STREET MILWAUKEE, WISCONSIN	
TITLE:	SITE LAYOUT MAP	
PROJECT: CHW8271N	FIGURE NO.: 2	DRAWING NO.: 2 OF 5
DATE: May 18, 2021	FILE NO.: 2105MDCC916	





MW-3			
DATE	9/23/2020	1/18/2021	4/27/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	< 2.00	< 2.00	< 1.00
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	< 1.00
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	< 2.50
ETHENE	< 1.2	< 1.2	< 1.2

MW-4			
DATE	9/24/2020	1/20/2021	4/28/2021
1,1,1-TCA	17.3	13.7	7.90
1,1-DCA	7.21	8.53	10.2
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	27.8	23.4	20.2
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	1.15
TCE	10.6	7.57	5.15
VC	4.31	12.2	15.9
ETHENE	< 1.2	< 1.2	< 1.2

MW-11			
DATE	10/29/2020	1/19/2021	4/27/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	< 2.00	< 2.00	< 1.00
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	< 1.00
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	< 2.50
ETHENE	..(1)	< 1.2	< 1.2

MW-5			
DATE	10/29/2020	1/21/2021	4/27/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	< 2.00	< 2.00	1.80 J
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	< 1.00
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	< 2.50
ETHENE	< 1.2	< 1.2	< 1.2

MW-12			
DATE	9/23/2020	1/18/2021	4/27/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	< 2.00	< 2.00	< 1.00
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	< 1.00
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	< 2.50
ETHENE	< 1.2	< 1.2	< 1.2

MW-2			
DATE	9/24/2020	1/20/2021	4/28/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	4.35	5.31	28.8
PCE	5.55	6.99	22.0
trans-1,2-DCE	< 2.00	< 2.00	0.700 J
TCE	< 2.00	< 2.00	11.6
VC	< 2.00	< 2.00	5.90
ETHENE	< 1.2	< 1.2	< 1.2

MW-10			
DATE	10/29/2020	1/20/2021	4/27/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	< 2.00	< 2.00	< 1.00
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	< 1.00
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	< 2.50
ETHENE	..(1)	< 1.2	< 1.2

MW-9			
DATE	9/24/2020	1/19/2021	4/27/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	< 2.00	< 2.00	< 1.00
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	< 1.00
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	< 2.50
ETHENE	< 1.2	< 1.2	< 1.2

MW-13			
DATE	9/23/2020	1/18/2021	4/27/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	< 2.00	< 2.00	< 1.00
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	< 1.00
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	< 2.50
ETHENE	< 1.2	< 1.2	< 1.2

MW-1			
DATE	9/25/2020	1/21/2021	4/28/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	9.52	13.9	14.2
cis-1,2-DCE	3150	5440	4680
PCE	2230	4190	3110
trans-1,2-DCE	22.2	34.8	63.4
TCE	2580	4080	3000
VC	217	475	540
ETHENE	33.3	33.8	40.9

MW-7			
DATE	9/24/2020	1/19/2021	4/28/2021
1,1,1-TCA	< 2.00	< 2.00	5.55
1,1-DCA	< 2.00	< 2.00	4.00
1,1-DCE	< 4.00	< 4.00	1.30 J
cis-1,2-DCE	48.8	222	402
PCE	< 2.00	< 2.00	1.35 J
trans-1,2-DCE	< 2.00	10.4	21.6
TCE	< 2.00	7.12	18.4
VC	< 2.00	< 2.00	< 2.50
ETHENE	< 1.2	< 1.2	< 1.2

MW-14			
DATE	9/23/2020	1/19/2021	4/28/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	21.7	20.3	28.7
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	2.90
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	2.00 J
ETHENE	< 1.2	< 1.2	< 1.2

MW-6			
DATE	9/25/2020	1/20/2021	4/28/2021
1,1,1-TCA	< 2.00	< 2.00	5.70
1,1-DCA	< 2.00	4.33 J	6.30
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	6.39	22.3	30.4
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	1.65 J
TCE	< 2.00	< 2.00	5.90
VC	< 2.00	< 2.00	1.15 J
ETHENE	< 1.2	< 1.2	< 1.2

MW-8			
DATE	9/24/2020	1/19/2021	4/27/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	< 2.00	< 2.00	< 1.00
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	< 1.00
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	< 2.50
ETHENE	< 1.2	< 1.2	< 1.2

MW-1			
DATE	9/25/2020	1/21/2021	4/28/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	< 2.00	< 2.00	< 1.00
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	< 1.00
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	< 2.50
ETHENE	< 1.2	< 1.2	< 1.2

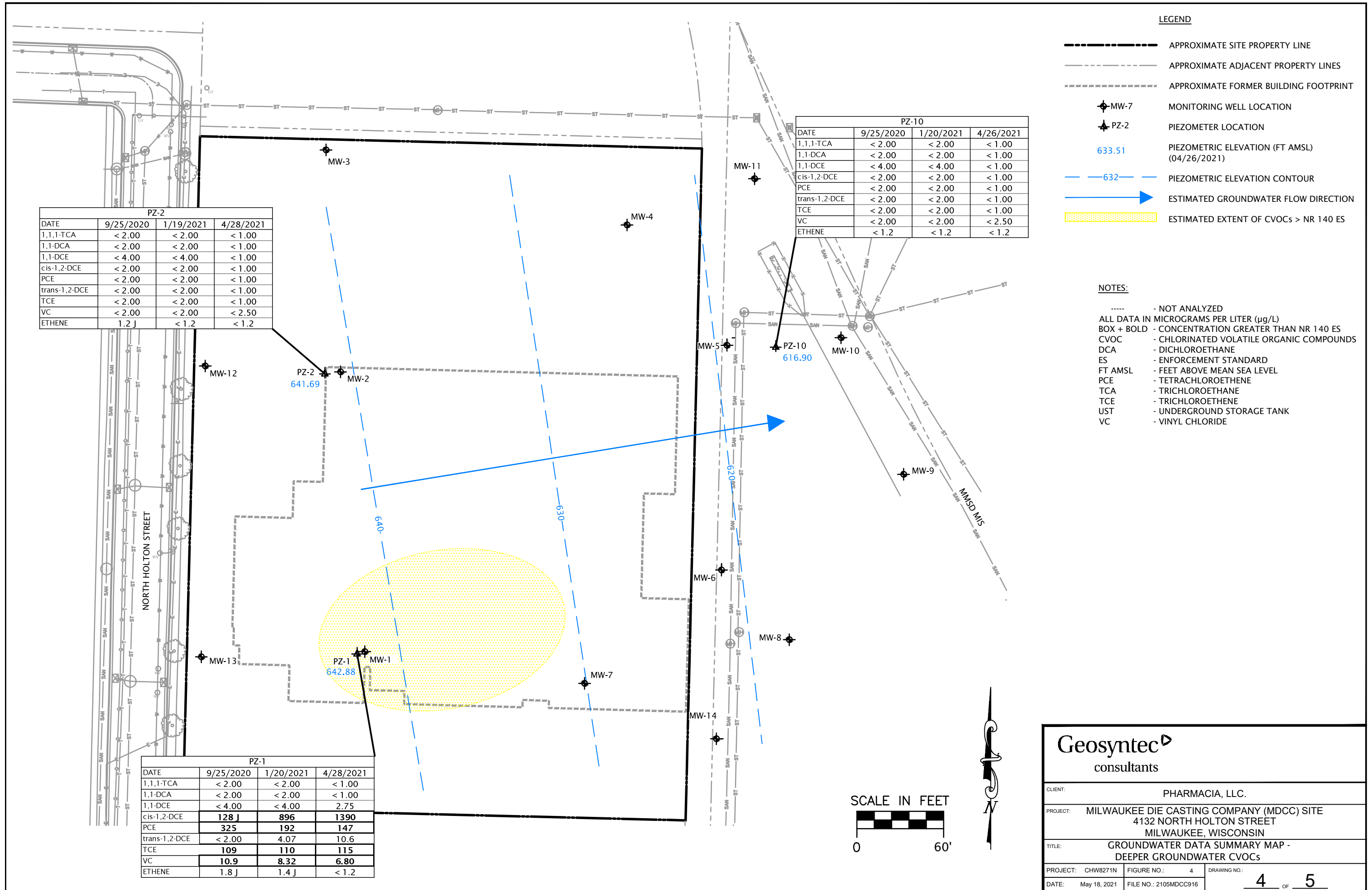
MW-14			
DATE	9/23/2020	1/19/2021	4/28/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	21.7	20.3	28.7
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	2.90
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	< 2.50
ETHENE	< 1.2	< 1.2	< 1.2

MW-1			
DATE	9/25/2020	1/21/2021	4/28/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	< 2.00	< 2.00	< 1.00
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	< 1.00
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	< 2.50
ETHENE	< 1.2	< 1.2	< 1.2

MW-7			
DATE	9/24/2020	1/19/2021	4/28/2021
1,1,1-TCA	< 2.00	< 2.00	5.55
1,1-DCA	< 2.00	< 2.00	4.00
1,1-DCE	< 4.00	< 4.00	1.30 J
cis-1,2-DCE	48.8	222	402
PCE	< 2.00	< 2.00	1.35 J
trans-1,2-DCE	< 2.00	10.4	21.6
TCE	< 2.00	7.12	18.4
VC	< 2.00	< 2.00	< 2.50
ETHENE	< 1.2	< 1.2	< 1.2

MW-14			
DATE	9/23/2020	1/19/2021	4/28/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	21.7	20.3	28.7
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	2.90
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	< 2.50
ETHENE	< 1.2	< 1.2	< 1.2

MW-6			
DATE	9/25/2020	1/20/2021	4/28/2021
1,1,1-TCA	< 2.00	< 2.00	5.70
1,1-DCA	< 2.00	4.33 J	6.30
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	6.39	22.3	30.4
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	1.65 J
TCE	< 2.00	< 2.00	5.90
VC	< 2.00	< 2.00	1.15 J
ETHENE	< 1.2	< 1.2	< 1.2



LEGEND

- APPROXIMATE SITE PROPERTY LINE
- APPROXIMATE ADJACENT PROPERTY LINES
- APPROXIMATE FORMER BUILDING FOOTPRINT
- ◆ MW-7 MONITORING WELL LOCATION
- ▲ PZ-2 PIEZOMETER LOCATION
- 633.51 PIEZOMETRIC ELEVATION (FT AMSL) (04/26/2021)
- 632--- PIEZOMETRIC ELEVATION CONTOUR
- ESTIMATED GROUNDWATER FLOW DIRECTION
- ESTIMATED EXTENT OF CVOCs > NR 140 ES

NOTES:

- - NOT ANALYZED
- ALL DATA IN MICROGRAMS PER LITER (µg/L)
- BOX + BOLD - CONCENTRATION GREATER THAN NR 140 ES
- CVOC - CHLORINATED VOLATILE ORGANIC COMPOUNDS
- DCA - DICHLOROETHANE
- ES - ENFORCEMENT STANDARD
- FT AMSL - FEET ABOVE MEAN SEA LEVEL
- PCE - TETRACHLOROETHENE
- TCA - TRICHLOROETHANE
- TCE - TRICHLOROETHENE
- UST - UNDERGROUND STORAGE TANK
- VC - VINYL CHLORIDE

PZ-10			
DATE	9/25/2020	1/20/2021	4/26/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	< 2.00	< 2.00	< 1.00
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	< 1.00
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	< 2.50
ETHENE	< 1.2	< 1.2	< 1.2

PZ-2			
DATE	9/25/2020	1/19/2021	4/28/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	< 1.00
cis-1,2-DCE	< 2.00	< 2.00	< 1.00
PCE	< 2.00	< 2.00	< 1.00
trans-1,2-DCE	< 2.00	< 2.00	< 1.00
TCE	< 2.00	< 2.00	< 1.00
VC	< 2.00	< 2.00	< 2.50
ETHENE	1.2 J	< 1.2	< 1.2

PZ-1			
DATE	9/25/2020	1/20/2021	4/28/2021
1,1,1-TCA	< 2.00	< 2.00	< 1.00
1,1-DCA	< 2.00	< 2.00	< 1.00
1,1-DCE	< 4.00	< 4.00	2.75
cis-1,2-DCE	128 J	896	1390
PCE	325	192	147
trans-1,2-DCE	< 2.00	4.07	10.6
TCE	109	110	115
VC	10.9	8.32	6.80
ETHENE	1.8 J	1.4 J	< 1.2



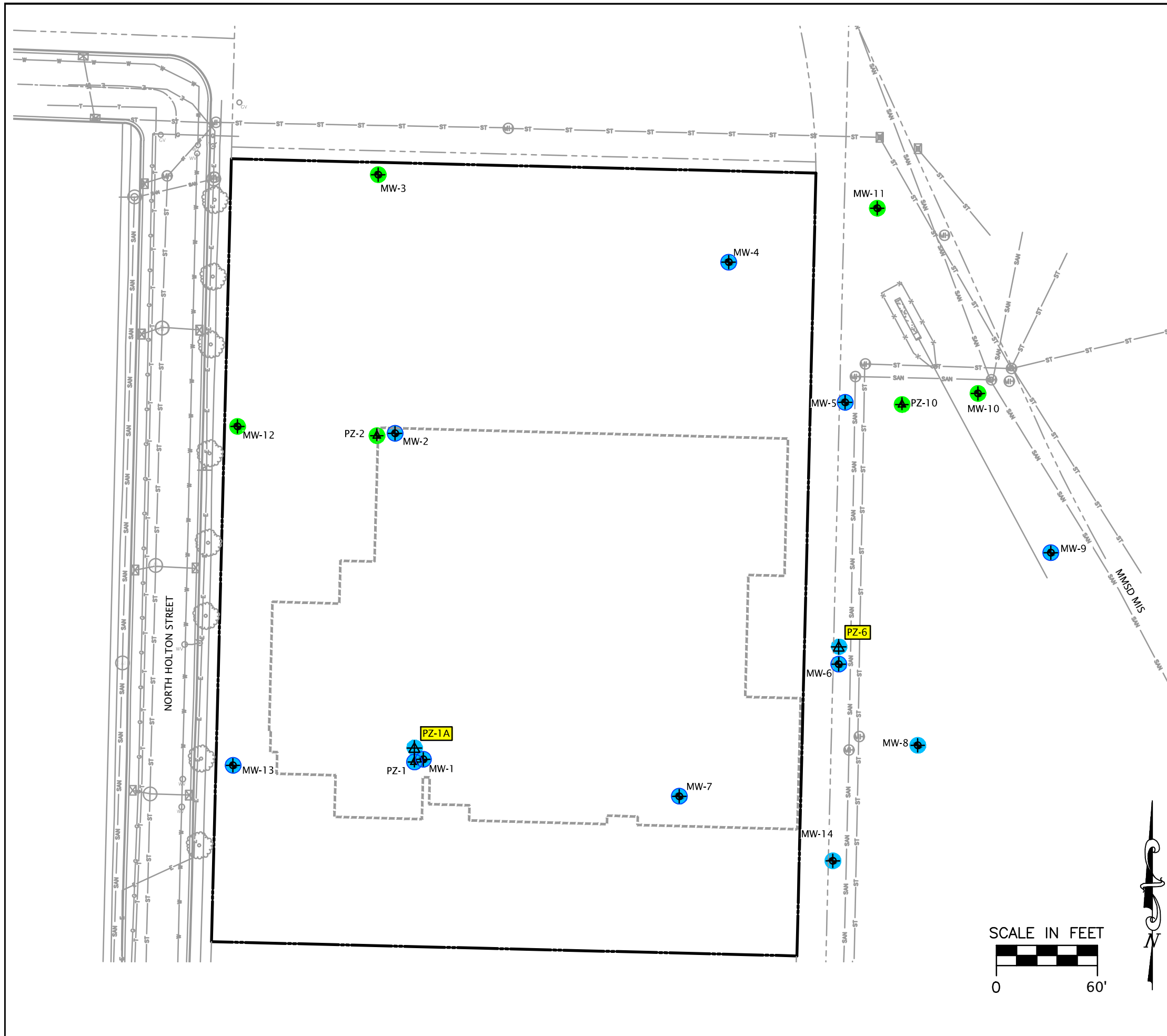
Geosyntec
consultants

CLIENT: PHARMACIA, LLC.

PROJECT: MILWAUKEE DIE CASTING COMPANY (MDCC) SITE
4132 NORTH HOLTON STREET
MILWAUKEE, WISCONSIN

TITLE: GROUNDWATER DATA SUMMARY MAP -
DEEPER GROUNDWATER CVOCs

PROJECT: CHW8271N FIGURE NO.: 4 DRAWING NO.: 4 OF 5
DATE: May 18, 2021 FILE NO.: 2105MDCC916

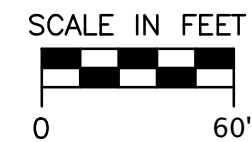


LEGEND

- APPROXIMATE SITE PROPERTY LINE
- APPROXIMATE ADJACENT PROPERTY LINES
- APPROXIMATE FORMER BUILDING FOOTPRINT
- MW-7 MONITORING WELL LOCATION
- PZ-2 PIEZOMETER LOCATION
- PZ-1A APPROXIMATE PLANNED PIEZOMETER LOCATION
- WATER LEVEL, SAMPLING & ANALYSIS
- WATER LEVEL

NOTES:

- CVOC - CHLORINATED VOLATILE ORGANIC COMPOUNDS
- ES - ENFORCEMENT STANDARD
- FT AMSL - FEET ABOVE MEAN SEA LEVEL



Geosyntec consultants		
CLIENT:	PHARMACIA, LLC.	
PROJECT:	MILWAUKEE DIE CASTING COMPANY (MDCC) SITE 4132 NORTH HOLTON STREET MILWAUKEE, WISCONSIN	
TITLE:	GROUNDWATER MONITORING PLAN	
PROJECT: CHW8271N	FIGURE NO.: 5	DRAWING NO.:
DATE: May 18, 2021	FILE NO.: 2105MDCC916	<u>5</u> OF <u>5</u>

APPENDIX 1

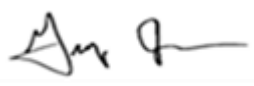

NR 712.09 Submittal Certification

Additional Groundwater Investigation Work Plan and Groundwater Monitoring Plan
Milwaukee Die Casting Company Site
4132 North Holton Street
Milwaukee, Wisconsin
WDNR BRRTS # 02-41-000023
WDNR FID # 241228240

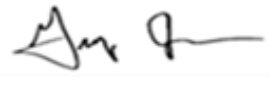
NR 712.09 Submittal certification.

Document Name	ADDITIONAL GROUNDWATER INVESTIGATION WORK PLAN AND GROUNDWATER MONITORING PLAN
Document Date	June 15, 2021
Site Name	Milwaukee Die Casting Company Site
WDNR BRRTS #	02-41-000023

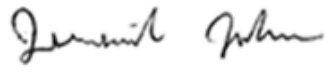
"I, Greg Johnson, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; 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."

	
Greg Johnson, P.H., P.G., P.E. Senior Engineer P.E. #: 29898-006	6/15/2021
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."

	Senior Engineer	6/15/2021
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."

	Senior Geologist	6/15/2021
Signature and title		Date

APPENDIX 2

Groundwater Sample Laboratory Report Data Validation Report (April 2021 Sampling Event)

Additional Groundwater Investigation Work Plan and Groundwater Monitoring Plan

Milwaukee Die Casting Company Site
4132 North Holton Street

Milwaukee, Wisconsin
WDNR BRRTS # 02-41-000023
WDNR FID # 241228240

Analytical Report

Jeremiah Johnson
Geosyntec Consultants
10600 N. Port Washington Rd.
Mequon, WI 53092

May 18, 2021

Work Order: 21D1010

RE: Milw Die Cast

Dear Jeremiah Johnson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

This is a revised report, that supersedes all previous reports. Please see case narrative for an explanation of revision.

Sincerely,



Tim Witrzek
Federal Program Manager
847.967.6666
twitrzek@emt.com

Approved for release: 5/18/2021 8:22:12AM

Approved by,



Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

Sample ID	Sub Lab	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1		21D1010-01	Groundwater	04/28/21 13:55	04/30/21 13:20
MW-2		21D1010-02	Groundwater	04/28/21 12:15	04/30/21 13:20
MW-2 DUP		21D1010-03	Groundwater	04/28/21 12:15	04/30/21 13:20
MW-3		21D1010-04	Groundwater	04/27/21 12:30	04/30/21 13:20
MW-4		21D1010-05	Groundwater	04/28/21 12:45	04/30/21 13:20
MW-5		21D1010-06	Groundwater	04/27/21 14:25	04/30/21 13:20
MW-6		21D1010-07	Groundwater	04/28/21 10:20	04/30/21 13:20
MW-6 DUP		21D1010-08	Groundwater	04/28/21 10:20	04/30/21 13:20
MW-7		21D1010-09	Groundwater	04/28/21 11:05	04/30/21 13:20
MW-8		21D1010-10	Groundwater	04/27/21 13:10	04/30/21 13:20
MW-9		21D1010-11	Groundwater	04/27/21 14:20	04/30/21 13:20
MW-10		21D1010-12	Groundwater	04/27/21 15:40	04/30/21 13:20
MW-11		21D1010-13	Groundwater	04/27/21 16:20	04/30/21 13:20
MW-12		21D1010-14	Groundwater	04/27/21 10:00	04/30/21 13:20
MW-13		21D1010-15	Groundwater	04/27/21 11:05	04/30/21 13:20
MW-14		21D1010-16	Groundwater	04/28/21 09:25	04/30/21 13:20
PZ-1		21D1010-17	Groundwater	04/28/21 14:10	04/30/21 13:20
PZ-2		21D1010-18	Groundwater	04/28/21 08:30	04/30/21 13:20
PZ-10		21D1010-19	Groundwater	04/26/21 15:50	04/30/21 13:20
TB-04282021		21D1010-20	Water	04/26/21 00:00	04/30/21 13:20

Case Narrative

Client: Geosyntec Consultants

Date: 05/18/2021

Project: Milw Die Cast

Work Order: 21D1010

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 21D1010

The samples were received on 04/30/21 13:20. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
1	5.2
2	4.0

Sample 04- MW-3 (8 vials), 05- MW-4 (1 vial), 06- MW-5 (1 vial), 12- MW-10 (1 vial), 14- MW-12 (6 vials) contain larger than pea-sized (6 mm) air bubbles.

Some of the analyses for this work order were subcontracted. Subcontract data, report, and receipt information is provided at end of report. Please also refer to subcontract lab narrative as needed.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Revised Report

This report has been revised to correct the Trip Blank sample data from 4/13 to 4/26 per client.

GC-MS Volatiles

8260B_p_Dioxane

21D1010-05 Toluene-d8 surrogate recovery was below the laboratory control limits. This may be due to a matrix effect causing a slight suppression as there were high levels of non-target peaks present.

Client Sample Results

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-1
Report Date: 05/18/2021
Collection Date: 04/28/2021 13:55
Matrix: Groundwater
Lab ID: 21D1010-01

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	3.03	1.00		mg/L	0.400	05/03/21 19:14	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 15:39	B1E0284	CP1	5	
1,1,1-Trichloroethane	< 1.00	2.50	U	ug/L	0.438	05/07/21 15:39	B1E0284	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 15:39	B1E0284	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 15:39	B1E0284	CP1	5	
1,1-Dichloroethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 15:39	B1E0284	CP1	5	
1,1-Dichloroethene	14.2	2.50	D	ug/L	0.477	05/07/21 15:39	B1E0284	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 15:39	B1E0284	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 15:39	B1E0284	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 15:39	B1E0284	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 15:39	B1E0284	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 15:39	B1E0284	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 15:39	B1E0284	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 15:39	B1E0284	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 15:39	B1E0284	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 15:39	B1E0284	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 15:39	B1E0284	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 15:39	B1E0284	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 15:39	B1E0284	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 15:39	B1E0284	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 15:39	B1E0284	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 15:39	B1E0284	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 15:39	B1E0284	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 15:39	B1E0284	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 15:39	B1E0284	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 15:39	B1E0284	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 15:39	B1E0284	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 15:39	B1E0284	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 15:39	B1E0284	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 15:39	B1E0284	CP1	5	
Carbon disulfide	1.90	5.00	J, D	ug/L	0.700	05/07/21 15:39	B1E0284	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 15:39	B1E0284	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 15:39	B1E0284	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 15:39	B1E0284	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 15:39	B1E0284	CP1	5	
Chloromethane	< 2.50	5.00	U	ug/L	0.960	05/07/21 15:39	B1E0284	CP1	5	
cis-1,2-Dichloroethene	4680	250	D	ug/L	51.3	05/07/21 17:55	B1E0284	CP1	500	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 15:39	B1E0284	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 15:39	B1E0284	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 15:39	B1E0284	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-1
Report Date: 05/18/2021
Collection Date: 04/28/2021 13:55
Matrix: Groundwater
Lab ID: 21D1010-01 (Continued)

Analyses	EMT Reporting			Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
	Result	Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 15:39	B1E0284	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 15:39	B1E0284	CP1	5	
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 15:39	B1E0284	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 15:39	B1E0284	CP1	5	
m,p-Xylene	0.550	5.00	J, D	ug/L	0.444	05/07/21 15:39	B1E0284	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 15:39	B1E0284	CP1	5	
Methylene chloride	3.75	10.0	J, D	ug/L	1.12	05/07/21 15:39	B1E0284	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 15:39	B1E0284	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 15:39	B1E0284	CP1	5	
o-Xylene	0.450	2.50	J, D	ug/L	0.208	05/07/21 15:39	B1E0284	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 15:39	B1E0284	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 15:39	B1E0284	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 15:39	B1E0284	CP1	5	
Tetrachloroethene	3110	250	D	ug/L	89.2	05/07/21 17:55	B1E0284	CP1	500	
Toluene	1.20	2.50	J, D	ug/L	0.286	05/07/21 15:39	B1E0284	CP1	5	
trans-1,2-Dichloroethene	63.4	2.50	D	ug/L	0.428	05/07/21 15:39	B1E0284	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 15:39	B1E0284	CP1	5	
Trichloroethene	3000	250	D	ug/L	39.0	05/07/21 17:55	B1E0284	CP1	500	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 15:39	B1E0284	CP1	5	
Vinyl chloride	540	50.0	D	ug/L	6.44	05/07/21 18:24	B1E0284	CP1	50	
Xylenes, Total	1.00	7.50	J, D	ug/L	0.652	05/07/21 15:39	B1E0284	CP1	5	

Surrogate: Dibromofluoromethane					Recovery: 96%	Limits: 89-119	05/07/21 15:39	B1E0284	CP1	5
Surrogate: 1,2-Dichloroethane-d4					Recovery: 98%	Limits: 86-122	05/07/21 15:39	B1E0284	CP1	5
Surrogate: Fluorobenzene					Recovery: 99%	Limits: 90-105	05/07/21 15:39	B1E0284	CP1	5
Surrogate: Toluene-d8					Recovery: 99%	Limits: 89-108	05/07/21 15:39	B1E0284	CP1	5
Surrogate: 4-Bromofluorobenzene					Recovery: 103%	Limits: 90-124	05/07/21 15:39	B1E0284	CP1	5
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 101%	Limits: 90-118	05/07/21 15:39	B1E0284	CP1	5

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	0.120	0.500	J	ug/L	0.0625	05/03/21 18:19	B1E0042	CP1	1	

Surrogate: Toluene-d8					Recovery: 90%	Limits: 80-120	05/03/21 18:19	B1E0042	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-2
Report Date: 05/18/2021
Collection Date: 04/28/2021 12:15
Matrix: Groundwater
Lab ID: 21D1010-02

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	7.38	1.00		mg/L	0.400	05/03/21 19:33	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 03:30	B1E0244	CP1	5	
1,1,1-Trichloroethane	< 1.00	2.50	U	ug/L	0.438	05/07/21 03:30	B1E0244	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 03:30	B1E0244	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 03:30	B1E0244	CP1	5	
1,1-Dichloroethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 03:30	B1E0244	CP1	5	
1,1-Dichloroethene	< 1.00	2.50	U	ug/L	0.477	05/07/21 03:30	B1E0244	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 03:30	B1E0244	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 03:30	B1E0244	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 03:30	B1E0244	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 03:30	B1E0244	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 03:30	B1E0244	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 03:30	B1E0244	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 03:30	B1E0244	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 03:30	B1E0244	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 03:30	B1E0244	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 03:30	B1E0244	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 03:30	B1E0244	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 03:30	B1E0244	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 03:30	B1E0244	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 03:30	B1E0244	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 03:30	B1E0244	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 03:30	B1E0244	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 03:30	B1E0244	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 03:30	B1E0244	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 03:30	B1E0244	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 03:30	B1E0244	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 03:30	B1E0244	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 03:30	B1E0244	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 03:30	B1E0244	CP1	5	
Carbon disulfide	2.40	5.00	J, D	ug/L	0.700	05/07/21 03:30	B1E0244	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 03:30	B1E0244	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 03:30	B1E0244	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 03:30	B1E0244	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 03:30	B1E0244	CP1	5	
Chloromethane	< 2.50	5.00	U	ug/L	0.960	05/07/21 03:30	B1E0244	CP1	5	
cis-1,2-Dichloroethene	28.8	2.50	D	ug/L	0.513	05/07/21 03:30	B1E0244	CP1	5	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 03:30	B1E0244	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 03:30	B1E0244	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 03:30	B1E0244	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-2
Report Date: 05/18/2021
Collection Date: 04/28/2021 12:15
Matrix: Groundwater
Lab ID: 21D1010-02 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 03:30	B1E0244	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 03:30	B1E0244	CP1	5	
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 03:30	B1E0244	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 03:30	B1E0244	CP1	5	
m,p-Xylene	0.550	5.00	J, D	ug/L	0.444	05/07/21 03:30	B1E0244	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 03:30	B1E0244	CP1	5	
Methylene chloride	5.00	10.0	J, D	ug/L	1.12	05/07/21 03:30	B1E0244	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 03:30	B1E0244	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 03:30	B1E0244	CP1	5	
o-Xylene	0.300	2.50	J, D	ug/L	0.208	05/07/21 03:30	B1E0244	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 03:30	B1E0244	CP1	5	
Styrene	0.250	2.50	J, D	ug/L	0.226	05/07/21 03:30	B1E0244	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 03:30	B1E0244	CP1	5	
Tetrachloroethene	22.0	2.50	D	ug/L	0.892	05/07/21 03:30	B1E0244	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 03:30	B1E0244	CP1	5	
trans-1,2-Dichloroethene	0.700	2.50	J, D	ug/L	0.428	05/07/21 03:30	B1E0244	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 03:30	B1E0244	CP1	5	
Trichloroethene	11.6	2.50	D	ug/L	0.390	05/07/21 03:30	B1E0244	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 03:30	B1E0244	CP1	5	
Vinyl chloride	5.90	5.00	D	ug/L	0.644	05/07/21 03:30	B1E0244	CP1	5	
Xylenes, Total	0.850	7.50	J, D	ug/L	0.652	05/07/21 03:30	B1E0244	CP1	5	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 103%</i>	<i>Limits: 89-119</i>	<i>05/07/21 03:30</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 108%</i>	<i>Limits: 86-122</i>	<i>05/07/21 03:30</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>	<i>05/07/21 03:30</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 99%</i>	<i>Limits: 89-108</i>	<i>05/07/21 03:30</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 98%</i>	<i>Limits: 90-124</i>	<i>05/07/21 03:30</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 98%</i>	<i>Limits: 90-118</i>	<i>05/07/21 03:30</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500	U	ug/L	0.0625	05/03/21 18:47	B1E0042	CP1	1
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 80%</i>	<i>Limits: 80-120</i>	<i>05/03/21 18:47</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-2 DUP
Report Date: 05/18/2021
Collection Date: 04/28/2021 12:15
Matrix: Groundwater
Lab ID: 21D1010-03

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	7.29	1.00		mg/L	0.400	05/03/21 19:59	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 03:59	B1E0244	CP1	5	
1,1,1-Trichloroethane	< 1.00	2.50	U	ug/L	0.438	05/07/21 03:59	B1E0244	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 03:59	B1E0244	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 03:59	B1E0244	CP1	5	
1,1-Dichloroethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 03:59	B1E0244	CP1	5	
1,1-Dichloroethene	< 1.00	2.50	U	ug/L	0.477	05/07/21 03:59	B1E0244	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 03:59	B1E0244	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 03:59	B1E0244	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 03:59	B1E0244	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 03:59	B1E0244	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 03:59	B1E0244	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 03:59	B1E0244	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 03:59	B1E0244	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 03:59	B1E0244	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 03:59	B1E0244	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 03:59	B1E0244	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 03:59	B1E0244	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 03:59	B1E0244	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 03:59	B1E0244	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 03:59	B1E0244	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 03:59	B1E0244	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 03:59	B1E0244	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 03:59	B1E0244	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 03:59	B1E0244	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 03:59	B1E0244	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 03:59	B1E0244	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 03:59	B1E0244	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 03:59	B1E0244	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 03:59	B1E0244	CP1	5	
Carbon disulfide	2.30	5.00	J, D	ug/L	0.700	05/07/21 03:59	B1E0244	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 03:59	B1E0244	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 03:59	B1E0244	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 03:59	B1E0244	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 03:59	B1E0244	CP1	5	
Chloromethane	< 2.50	5.00	U	ug/L	0.960	05/07/21 03:59	B1E0244	CP1	5	
cis-1,2-Dichloroethene	32.6	2.50	D	ug/L	0.513	05/07/21 03:59	B1E0244	CP1	5	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 03:59	B1E0244	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 03:59	B1E0244	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 03:59	B1E0244	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-2 DUP
Report Date: 05/18/2021
Collection Date: 04/28/2021 12:15
Matrix: Groundwater
Lab ID: 21D1010-03 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 03:59	B1E0244	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 03:59	B1E0244	CP1	5	
Ethylbenzene	0.150	2.50	J, D	ug/L	0.150	05/07/21 03:59	B1E0244	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 03:59	B1E0244	CP1	5	
m,p-Xylene	< 2.00	5.00	U	ug/L	0.444	05/07/21 03:59	B1E0244	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 03:59	B1E0244	CP1	5	
Methylene chloride	4.70	10.0	J, D	ug/L	1.12	05/07/21 03:59	B1E0244	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 03:59	B1E0244	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 03:59	B1E0244	CP1	5	
o-Xylene	0.250	2.50	J, D	ug/L	0.208	05/07/21 03:59	B1E0244	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 03:59	B1E0244	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 03:59	B1E0244	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 03:59	B1E0244	CP1	5	
Tetrachloroethene	28.2	2.50	D	ug/L	0.892	05/07/21 03:59	B1E0244	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 03:59	B1E0244	CP1	5	
trans-1,2-Dichloroethene	0.900	2.50	J, D	ug/L	0.428	05/07/21 03:59	B1E0244	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 03:59	B1E0244	CP1	5	
Trichloroethene	12.8	2.50	D	ug/L	0.390	05/07/21 03:59	B1E0244	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 03:59	B1E0244	CP1	5	
Vinyl chloride	6.05	5.00	D	ug/L	0.644	05/07/21 03:59	B1E0244	CP1	5	
Xylenes, Total	< 3.00	7.50	U	ug/L	0.652	05/07/21 03:59	B1E0244	CP1	5	
<hr/>										
Surrogate: Dibromofluoromethane					Recovery: 105%	Limits: 89-119	05/07/21 03:59	B1E0244	CP1	5
Surrogate: 1,2-Dichloroethane-d4					Recovery: 111%	Limits: 86-122	05/07/21 03:59	B1E0244	CP1	5
Surrogate: Fluorobenzene					Recovery: 102%	Limits: 90-105	05/07/21 03:59	B1E0244	CP1	5
Surrogate: Toluene-d8					Recovery: 96%	Limits: 89-108	05/07/21 03:59	B1E0244	CP1	5
Surrogate: 4-Bromofluorobenzene					Recovery: 98%	Limits: 90-124	05/07/21 03:59	B1E0244	CP1	5
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 99%	Limits: 90-118	05/07/21 03:59	B1E0244	CP1	5

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500	U	ug/L	0.0625	05/03/21 19:16	B1E0042	CP1	1	
<hr/>										
Surrogate: Toluene-d8					Recovery: 80%	Limits: 80-120	05/03/21 19:16	B1E0042	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-3
Report Date: 05/18/2021
Collection Date: 04/27/2021 12:30
Matrix: Groundwater
Lab ID: 21D1010-04

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.48	1.00		mg/L	0.400	05/03/21 20:23	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 04:28	B1E0244	CP1	5	
1,1,1-Trichloroethane	< 1.00	2.50	U	ug/L	0.438	05/07/21 04:28	B1E0244	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 04:28	B1E0244	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 04:28	B1E0244	CP1	5	
1,1-Dichloroethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 04:28	B1E0244	CP1	5	
1,1-Dichloroethene	< 1.00	2.50	U	ug/L	0.477	05/07/21 04:28	B1E0244	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 04:28	B1E0244	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 04:28	B1E0244	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 04:28	B1E0244	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 04:28	B1E0244	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 04:28	B1E0244	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 04:28	B1E0244	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 04:28	B1E0244	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 04:28	B1E0244	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 04:28	B1E0244	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 04:28	B1E0244	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 04:28	B1E0244	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 04:28	B1E0244	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 04:28	B1E0244	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 04:28	B1E0244	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 04:28	B1E0244	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 04:28	B1E0244	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 04:28	B1E0244	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 04:28	B1E0244	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 04:28	B1E0244	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 04:28	B1E0244	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 04:28	B1E0244	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 04:28	B1E0244	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 04:28	B1E0244	CP1	5	
Carbon disulfide	2.25	5.00	J, D	ug/L	0.700	05/07/21 04:28	B1E0244	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 04:28	B1E0244	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 04:28	B1E0244	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 04:28	B1E0244	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 04:28	B1E0244	CP1	5	
Chloromethane	< 2.50	5.00	J2, U	ug/L	0.960	05/07/21 04:28	B1E0244	CP1	5	
cis-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.513	05/07/21 04:28	B1E0244	CP1	5	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 04:28	B1E0244	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 04:28	B1E0244	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 04:28	B1E0244	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-3
Report Date: 05/18/2021
Collection Date: 04/27/2021 12:30
Matrix: Groundwater
Lab ID: 21D1010-04 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 04:28	B1E0244	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 04:28	B1E0244	CP1	5	
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 04:28	B1E0244	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 04:28	B1E0244	CP1	5	
m,p-Xylene	< 2.00	5.00	U	ug/L	0.444	05/07/21 04:28	B1E0244	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 04:28	B1E0244	CP1	5	
Methylene chloride	4.25	10.0	J, D	ug/L	1.12	05/07/21 04:28	B1E0244	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 04:28	B1E0244	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 04:28	B1E0244	CP1	5	
o-Xylene	0.250	2.50	J, D	ug/L	0.208	05/07/21 04:28	B1E0244	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 04:28	B1E0244	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 04:28	B1E0244	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 04:28	B1E0244	CP1	5	
Tetrachloroethene	< 1.00	2.50	U	ug/L	0.892	05/07/21 04:28	B1E0244	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 04:28	B1E0244	CP1	5	
trans-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.428	05/07/21 04:28	B1E0244	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 04:28	B1E0244	CP1	5	
Trichloroethene	< 1.00	2.50	U	ug/L	0.390	05/07/21 04:28	B1E0244	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 04:28	B1E0244	CP1	5	
Vinyl chloride	< 2.50	5.00	U	ug/L	0.644	05/07/21 04:28	B1E0244	CP1	5	
Xylenes, Total	< 3.00	7.50	U	ug/L	0.652	05/07/21 04:28	B1E0244	CP1	5	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 104%</i>	<i>Limits: 89-119</i>	<i>05/07/21 04:28</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 86-122</i>	<i>05/07/21 04:28</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 102%</i>	<i>Limits: 90-105</i>	<i>05/07/21 04:28</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 98%</i>	<i>Limits: 89-108</i>	<i>05/07/21 04:28</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 90-124</i>	<i>05/07/21 04:28</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 100%</i>	<i>Limits: 90-118</i>	<i>05/07/21 04:28</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
Subcontracted Analyses										
Method: SW8260-SIM Modified / SW5030										
1,4-Dioxane	< 0.200	0.500	U	ug/L	0.0625	05/03/21 15:31	B1E0042	CP1	1	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 89%</i>	<i>Limits: 80-120</i>	<i>05/03/21 15:31</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-4
Report Date: 05/18/2021
Collection Date: 04/28/2021 12:45
Matrix: Groundwater
Lab ID: 21D1010-05

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.52	1.00		mg/L	0.400	05/03/21 23:19	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 04:57	B1E0244	CP1	5	
1,1,1-Trichloroethane	7.90	2.50	D	ug/L	0.438	05/07/21 04:57	B1E0244	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 04:57	B1E0244	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 04:57	B1E0244	CP1	5	
1,1-Dichloroethane	10.2	2.50	D	ug/L	0.334	05/07/21 04:57	B1E0244	CP1	5	
1,1-Dichloroethene	< 1.00	2.50	U	ug/L	0.477	05/07/21 04:57	B1E0244	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 04:57	B1E0244	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 04:57	B1E0244	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 04:57	B1E0244	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 04:57	B1E0244	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 04:57	B1E0244	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 04:57	B1E0244	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 04:57	B1E0244	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 04:57	B1E0244	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 04:57	B1E0244	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 04:57	B1E0244	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 04:57	B1E0244	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 04:57	B1E0244	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 04:57	B1E0244	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 04:57	B1E0244	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 04:57	B1E0244	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 04:57	B1E0244	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 04:57	B1E0244	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 04:57	B1E0244	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 04:57	B1E0244	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 04:57	B1E0244	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 04:57	B1E0244	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 04:57	B1E0244	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 04:57	B1E0244	CP1	5	
Carbon disulfide	2.15	5.00	J, D	ug/L	0.700	05/07/21 04:57	B1E0244	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 04:57	B1E0244	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 04:57	B1E0244	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 04:57	B1E0244	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 04:57	B1E0244	CP1	5	
Chloromethane	< 2.50	5.00	U	ug/L	0.960	05/07/21 04:57	B1E0244	CP1	5	
cis-1,2-Dichloroethene	20.2	2.50	D	ug/L	0.513	05/07/21 04:57	B1E0244	CP1	5	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 04:57	B1E0244	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 04:57	B1E0244	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 04:57	B1E0244	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-4
Report Date: 05/18/2021
Collection Date: 04/28/2021 12:45
Matrix: Groundwater
Lab ID: 21D1010-05 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 04:57	B1E0244	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 04:57	B1E0244	CP1	5	
Ethylbenzene	0.150	2.50	J, D	ug/L	0.150	05/07/21 04:57	B1E0244	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 04:57	B1E0244	CP1	5	
m,p-Xylene	0.500	5.00	J, D	ug/L	0.444	05/07/21 04:57	B1E0244	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 04:57	B1E0244	CP1	5	
Methylene chloride	4.25	10.0	J, D	ug/L	1.12	05/07/21 04:57	B1E0244	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 04:57	B1E0244	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 04:57	B1E0244	CP1	5	
o-Xylene	0.250	2.50	J, D	ug/L	0.208	05/07/21 04:57	B1E0244	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 04:57	B1E0244	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 04:57	B1E0244	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 04:57	B1E0244	CP1	5	
Tetrachloroethene	< 1.00	2.50	U	ug/L	0.892	05/07/21 04:57	B1E0244	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 04:57	B1E0244	CP1	5	
trans-1,2-Dichloroethene	1.15	2.50	J, D	ug/L	0.428	05/07/21 04:57	B1E0244	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 04:57	B1E0244	CP1	5	
Trichloroethene	5.15	2.50	D	ug/L	0.390	05/07/21 04:57	B1E0244	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 04:57	B1E0244	CP1	5	
Vinyl chloride	15.9	5.00	D	ug/L	0.644	05/07/21 04:57	B1E0244	CP1	5	
Xylenes, Total	0.750	7.50	J, D	ug/L	0.652	05/07/21 04:57	B1E0244	CP1	5	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 103%</i>	<i>Limits: 89-119</i>	<i>05/07/21 04:57</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 108%</i>	<i>Limits: 86-122</i>	<i>05/07/21 04:57</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>	<i>05/07/21 04:57</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 98%</i>	<i>Limits: 89-108</i>	<i>05/07/21 04:57</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 90-124</i>	<i>05/07/21 04:57</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 100%</i>	<i>Limits: 90-118</i>	<i>05/07/21 04:57</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500	U	ug/L	0.0625	05/03/21 19:44	B1E0042	CP1	1	
<i>Surrogate: Toluene-d8</i>				<i>S</i>	<i>Recovery: 78%</i>	<i>Limits: 80-120</i>	<i>05/03/21 19:44</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-5
Report Date: 05/18/2021
Collection Date: 04/27/2021 14:25
Matrix: Groundwater
Lab ID: 21D1010-06

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	1.78	1.00			mg/L	0.400	05/03/21 23:36	B1E0035	tb2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U		ug/L	0.325	05/07/21 05:25	B1E0244	CP1	5
1,1,1-Trichloroethane	< 1.00	2.50	U		ug/L	0.438	05/07/21 05:25	B1E0244	CP1	5
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U		ug/L	0.310	05/07/21 05:25	B1E0244	CP1	5
1,1,2-Trichloroethane	< 1.00	2.50	U		ug/L	0.416	05/07/21 05:25	B1E0244	CP1	5
1,1-Dichloroethane	< 1.00	2.50	U		ug/L	0.334	05/07/21 05:25	B1E0244	CP1	5
1,1-Dichloroethene	< 1.00	2.50	U		ug/L	0.477	05/07/21 05:25	B1E0244	CP1	5
1,1-Dichloropropene	< 1.00	2.50	U		ug/L	0.350	05/07/21 05:25	B1E0244	CP1	5
1,2,3-Trichlorobenzene	< 1.00	2.50	U		ug/L	0.510	05/07/21 05:25	B1E0244	CP1	5
1,2,3-Trichloropropane	< 1.00	2.50	U		ug/L	0.456	05/07/21 05:25	B1E0244	CP1	5
1,2,4-Trimethylbenzene	< 1.00	2.50	U		ug/L	0.330	05/07/21 05:25	B1E0244	CP1	5
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U		ug/L	0.650	05/07/21 05:25	B1E0244	CP1	5
1,2-Dibromoethane	< 1.00	2.50	U		ug/L	0.266	05/07/21 05:25	B1E0244	CP1	5
1,2-Dichloroethane	< 1.00	2.50	U		ug/L	0.530	05/07/21 05:25	B1E0244	CP1	5
1,2-Dichloropropane	< 1.00	2.50	U		ug/L	0.512	05/07/21 05:25	B1E0244	CP1	5
1,3,5-Trimethylbenzene	< 1.00	2.50	U		ug/L	0.250	05/07/21 05:25	B1E0244	CP1	5
1,3-Dichloropropane	< 1.00	2.50	U		ug/L	0.340	05/07/21 05:25	B1E0244	CP1	5
2,2-Dichloropropane	< 1.00	2.50	U		ug/L	0.460	05/07/21 05:25	B1E0244	CP1	5
2-Butanone	< 3.50	8.75	U		ug/L	1.65	05/07/21 05:25	B1E0244	CP1	5
2-Chlorotoluene	< 1.00	2.50	U		ug/L	0.366	05/07/21 05:25	B1E0244	CP1	5
2-Hexanone	< 3.50	8.75	U		ug/L	0.358	05/07/21 05:25	B1E0244	CP1	5
4-Isopropyltoluene	< 1.00	2.50	U		ug/L	0.350	05/07/21 05:25	B1E0244	CP1	5
4-Methyl-2-pentanone	< 3.50	8.75	U		ug/L	0.675	05/07/21 05:25	B1E0244	CP1	5
Acetone	< 5.00	10.0	U		ug/L	2.59	05/07/21 05:25	B1E0244	CP1	5
Benzene	< 1.00	2.50	U		ug/L	0.254	05/07/21 05:25	B1E0244	CP1	5
Bromobenzene	< 1.00	2.50	U		ug/L	0.424	05/07/21 05:25	B1E0244	CP1	5
Bromochloromethane	< 1.00	2.50	U		ug/L	0.334	05/07/21 05:25	B1E0244	CP1	5
Bromodichloromethane	< 1.00	2.50	U		ug/L	0.266	05/07/21 05:25	B1E0244	CP1	5
Bromoform	< 1.00	2.50	U		ug/L	0.516	05/07/21 05:25	B1E0244	CP1	5
Bromomethane	< 2.50	5.00	U		ug/L	0.801	05/07/21 05:25	B1E0244	CP1	5
Carbon disulfide	2.05	5.00	J, D		ug/L	0.700	05/07/21 05:25	B1E0244	CP1	5
Carbon tetrachloride	< 1.00	2.50	U		ug/L	0.422	05/07/21 05:25	B1E0244	CP1	5
Chlorobenzene	< 1.00	2.50	U		ug/L	0.325	05/07/21 05:25	B1E0244	CP1	5
Chloroethane	< 1.00	2.50	U		ug/L	0.777	05/07/21 05:25	B1E0244	CP1	5
Chloroform	< 1.00	2.50	U		ug/L	0.506	05/07/21 05:25	B1E0244	CP1	5
Chloromethane	< 2.50	5.00	U		ug/L	0.960	05/07/21 05:25	B1E0244	CP1	5
cis-1,2-Dichloroethene	1.80	2.50	J, D		ug/L	0.513	05/07/21 05:25	B1E0244	CP1	5
cis-1,3-Dichloropropene	< 1.00	2.50	U		ug/L	0.294	05/07/21 05:25	B1E0244	CP1	5
Cyclohexane	< 1.00	2.50	U		ug/L	0.431	05/07/21 05:25	B1E0244	CP1	5
Dibromochloromethane	< 1.00	2.50	U		ug/L	0.380	05/07/21 05:25	B1E0244	CP1	5

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-5
Report Date: 05/18/2021
Collection Date: 04/27/2021 14:25
Matrix: Groundwater
Lab ID: 21D1010-06 (Continued)

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Limit							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U		ug/L	0.408	05/07/21 05:25	B1E0244	CP1	5
Dichlorodifluoromethane	< 2.50	5.00	U		ug/L	0.648	05/07/21 05:25	B1E0244	CP1	5
Ethylbenzene	0.150	2.50	J, D		ug/L	0.150	05/07/21 05:25	B1E0244	CP1	5
Isopropylbenzene	< 1.00	2.50	U		ug/L	0.274	05/07/21 05:25	B1E0244	CP1	5
m,p-Xylene	0.500	5.00	J, D		ug/L	0.444	05/07/21 05:25	B1E0244	CP1	5
Methyl tert-butyl ether	< 1.00	2.50	U		ug/L	0.265	05/07/21 05:25	B1E0244	CP1	5
Methylene chloride	4.05	10.0	J, D		ug/L	1.12	05/07/21 05:25	B1E0244	CP1	5
n-Butylbenzene	< 2.50	5.00	U		ug/L	0.650	05/07/21 05:25	B1E0244	CP1	5
n-Propylbenzene	< 1.00	2.50	U		ug/L	0.315	05/07/21 05:25	B1E0244	CP1	5
o-Xylene	0.300	2.50	J, D		ug/L	0.208	05/07/21 05:25	B1E0244	CP1	5
sec-Butylbenzene	< 1.00	2.50	U		ug/L	0.299	05/07/21 05:25	B1E0244	CP1	5
Styrene	< 1.00	2.50	U		ug/L	0.226	05/07/21 05:25	B1E0244	CP1	5
tert-Butylbenzene	< 1.00	2.50	U		ug/L	0.226	05/07/21 05:25	B1E0244	CP1	5
Tetrachloroethene	< 1.00	2.50	U		ug/L	0.892	05/07/21 05:25	B1E0244	CP1	5
Toluene	< 1.00	2.50	U		ug/L	0.286	05/07/21 05:25	B1E0244	CP1	5
trans-1,2-Dichloroethene	< 1.00	2.50	U		ug/L	0.428	05/07/21 05:25	B1E0244	CP1	5
trans-1,3-Dichloropropene	< 1.00	2.50	U		ug/L	0.294	05/07/21 05:25	B1E0244	CP1	5
Trichloroethene	< 1.00	2.50	U		ug/L	0.390	05/07/21 05:25	B1E0244	CP1	5
Trichlorofluoromethane	< 1.00	2.50	U		ug/L	0.252	05/07/21 05:25	B1E0244	CP1	5
Vinyl chloride	< 2.50	5.00	U		ug/L	0.644	05/07/21 05:25	B1E0244	CP1	5
Xylenes, Total	0.800	7.50	J, D		ug/L	0.652	05/07/21 05:25	B1E0244	CP1	5
<i>Surrogate: Dibromofluoromethane</i>					<i>Recovery: 103%</i>	<i>Limits: 89-119</i>	<i>05/07/21 05:25</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>					<i>Recovery: 111%</i>	<i>Limits: 86-122</i>	<i>05/07/21 05:25</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>
<i>Surrogate: Fluorobenzene</i>					<i>Recovery: 101%</i>	<i>Limits: 90-105</i>	<i>05/07/21 05:25</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>
<i>Surrogate: Toluene-d8</i>					<i>Recovery: 97%</i>	<i>Limits: 89-108</i>	<i>05/07/21 05:25</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>
<i>Surrogate: 4-Bromofluorobenzene</i>					<i>Recovery: 101%</i>	<i>Limits: 90-124</i>	<i>05/07/21 05:25</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>					<i>Recovery: 100%</i>	<i>Limits: 90-118</i>	<i>05/07/21 05:25</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	0.0700	0.500	J		ug/L	0.0625	05/03/21 20:12	B1E0042	CP1	1
<i>Surrogate: Toluene-d8</i>					<i>Recovery: 84%</i>	<i>Limits: 80-120</i>	<i>05/03/21 20:12</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-6
Report Date: 05/18/2021
Collection Date: 04/28/2021 10:20
Matrix: Groundwater
Lab ID: 21D1010-07

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	3.12	1.00		mg/L	0.400	05/03/21 23:56	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 05:54	B1E0244	CP1	5	
1,1,1-Trichloroethane	5.70	2.50	D	ug/L	0.438	05/07/21 05:54	B1E0244	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 05:54	B1E0244	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 05:54	B1E0244	CP1	5	
1,1-Dichloroethane	6.30	2.50	D	ug/L	0.334	05/07/21 05:54	B1E0244	CP1	5	
1,1-Dichloroethene	< 1.00	2.50	U	ug/L	0.477	05/07/21 05:54	B1E0244	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 05:54	B1E0244	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 05:54	B1E0244	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 05:54	B1E0244	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 05:54	B1E0244	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 05:54	B1E0244	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 05:54	B1E0244	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 05:54	B1E0244	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 05:54	B1E0244	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 05:54	B1E0244	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 05:54	B1E0244	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 05:54	B1E0244	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 05:54	B1E0244	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 05:54	B1E0244	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 05:54	B1E0244	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 05:54	B1E0244	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 05:54	B1E0244	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 05:54	B1E0244	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 05:54	B1E0244	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 05:54	B1E0244	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 05:54	B1E0244	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 05:54	B1E0244	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 05:54	B1E0244	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 05:54	B1E0244	CP1	5	
Carbon disulfide	2.25	5.00	J, D	ug/L	0.700	05/07/21 05:54	B1E0244	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 05:54	B1E0244	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 05:54	B1E0244	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 05:54	B1E0244	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 05:54	B1E0244	CP1	5	
Chloromethane	< 2.50	5.00	U	ug/L	0.960	05/07/21 05:54	B1E0244	CP1	5	
cis-1,2-Dichloroethene	30.4	2.50	D	ug/L	0.513	05/07/21 05:54	B1E0244	CP1	5	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 05:54	B1E0244	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 05:54	B1E0244	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 05:54	B1E0244	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-6
Report Date: 05/18/2021
Collection Date: 04/28/2021 10:20
Matrix: Groundwater
Lab ID: 21D1010-07 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 05:54	B1E0244	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 05:54	B1E0244	CP1	5	
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 05:54	B1E0244	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 05:54	B1E0244	CP1	5	
m,p-Xylene	0.500	5.00	J, D	ug/L	0.444	05/07/21 05:54	B1E0244	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 05:54	B1E0244	CP1	5	
Methylene chloride	3.95	10.0	J, D	ug/L	1.12	05/07/21 05:54	B1E0244	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 05:54	B1E0244	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 05:54	B1E0244	CP1	5	
o-Xylene	0.250	2.50	J, D	ug/L	0.208	05/07/21 05:54	B1E0244	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 05:54	B1E0244	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 05:54	B1E0244	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 05:54	B1E0244	CP1	5	
Tetrachloroethene	< 1.00	2.50	U	ug/L	0.892	05/07/21 05:54	B1E0244	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 05:54	B1E0244	CP1	5	
trans-1,2-Dichloroethene	1.65	2.50	J, D	ug/L	0.428	05/07/21 05:54	B1E0244	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 05:54	B1E0244	CP1	5	
Trichloroethene	5.90	2.50	D	ug/L	0.390	05/07/21 05:54	B1E0244	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 05:54	B1E0244	CP1	5	
Vinyl chloride	1.15	5.00	J, D	ug/L	0.644	05/07/21 05:54	B1E0244	CP1	5	
Xylenes, Total	0.750	7.50	J, D	ug/L	0.652	05/07/21 05:54	B1E0244	CP1	5	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 100%</i>	<i>Limits: 89-119</i>	<i>05/07/21 05:54</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 86-122</i>	<i>05/07/21 05:54</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 90-105</i>	<i>05/07/21 05:54</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 99%</i>	<i>Limits: 89-108</i>	<i>05/07/21 05:54</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 104%</i>	<i>Limits: 90-124</i>	<i>05/07/21 05:54</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 100%</i>	<i>Limits: 90-118</i>	<i>05/07/21 05:54</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	19.0	2.50	D	ug/L	0.312	05/04/21 01:49	B1E0042	CP1	5
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 103%</i>	<i>Limits: 80-120</i>	<i>05/04/21 01:49</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants**Project:** Milw Die Cast**Work Order:** 21D1010**Client Sample ID:** MW-6 DUP**Report Date:** 05/18/2021**Collection Date:** 04/28/2021 10:20**Matrix:** Groundwater**Lab ID:** 21D1010-08

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	3.04	1.00		mg/L	0.400	05/04/21 00:13	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 06:23	B1E0244	CP1	5	
1,1,1-Trichloroethane	6.45	2.50	D	ug/L	0.438	05/07/21 06:23	B1E0244	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 06:23	B1E0244	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 06:23	B1E0244	CP1	5	
1,1-Dichloroethane	6.65	2.50	D	ug/L	0.334	05/07/21 06:23	B1E0244	CP1	5	
1,1-Dichloroethene	< 1.00	2.50	U	ug/L	0.477	05/07/21 06:23	B1E0244	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 06:23	B1E0244	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 06:23	B1E0244	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 06:23	B1E0244	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 06:23	B1E0244	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 06:23	B1E0244	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 06:23	B1E0244	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 06:23	B1E0244	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 06:23	B1E0244	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 06:23	B1E0244	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 06:23	B1E0244	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 06:23	B1E0244	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 06:23	B1E0244	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 06:23	B1E0244	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 06:23	B1E0244	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 06:23	B1E0244	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 06:23	B1E0244	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 06:23	B1E0244	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 06:23	B1E0244	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 06:23	B1E0244	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 06:23	B1E0244	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 06:23	B1E0244	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 06:23	B1E0244	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 06:23	B1E0244	CP1	5	
Carbon disulfide	2.25	5.00	J, D	ug/L	0.700	05/07/21 06:23	B1E0244	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 06:23	B1E0244	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 06:23	B1E0244	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 06:23	B1E0244	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 06:23	B1E0244	CP1	5	
Chloromethane	< 2.50	5.00	U	ug/L	0.960	05/07/21 06:23	B1E0244	CP1	5	
cis-1,2-Dichloroethene	31.8	2.50	D	ug/L	0.513	05/07/21 06:23	B1E0244	CP1	5	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 06:23	B1E0244	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 06:23	B1E0244	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 06:23	B1E0244	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-6 DUP
Report Date: 05/18/2021
Collection Date: 04/28/2021 10:20
Matrix: Groundwater
Lab ID: 21D1010-08 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 06:23	B1E0244	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 06:23	B1E0244	CP1	5	
Ethylbenzene	0.150	2.50	J, D	ug/L	0.150	05/07/21 06:23	B1E0244	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 06:23	B1E0244	CP1	5	
m,p-Xylene	0.450	5.00	J, D	ug/L	0.444	05/07/21 06:23	B1E0244	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 06:23	B1E0244	CP1	5	
Methylene chloride	4.15	10.0	J, D	ug/L	1.12	05/07/21 06:23	B1E0244	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 06:23	B1E0244	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 06:23	B1E0244	CP1	5	
o-Xylene	< 1.00	2.50	U	ug/L	0.208	05/07/21 06:23	B1E0244	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 06:23	B1E0244	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 06:23	B1E0244	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 06:23	B1E0244	CP1	5	
Tetrachloroethene	< 1.00	2.50	U	ug/L	0.892	05/07/21 06:23	B1E0244	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 06:23	B1E0244	CP1	5	
trans-1,2-Dichloroethene	2.00	2.50	J, D	ug/L	0.428	05/07/21 06:23	B1E0244	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 06:23	B1E0244	CP1	5	
Trichloroethene	6.00	2.50	D	ug/L	0.390	05/07/21 06:23	B1E0244	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 06:23	B1E0244	CP1	5	
Vinyl chloride	1.15	5.00	J, D	ug/L	0.644	05/07/21 06:23	B1E0244	CP1	5	
Xylenes, Total	< 3.00	7.50	U	ug/L	0.652	05/07/21 06:23	B1E0244	CP1	5	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 103%</i>	<i>Limits: 89-119</i>	<i>05/07/21 06:23</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 108%</i>	<i>Limits: 86-122</i>	<i>05/07/21 06:23</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 98%</i>	<i>Limits: 90-105</i>	<i>05/07/21 06:23</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 98%</i>	<i>Limits: 89-108</i>	<i>05/07/21 06:23</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-124</i>	<i>05/07/21 06:23</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 101%</i>	<i>Limits: 90-118</i>	<i>05/07/21 06:23</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	19.6	2.50	D	ug/L	0.312	05/04/21 02:17	B1E0042	CP1	5
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 88%</i>	<i>Limits: 80-120</i>	<i>05/04/21 02:17</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-7
Report Date: 05/18/2021
Collection Date: 04/28/2021 11:05
Matrix: Groundwater
Lab ID: 21D1010-09

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.11	1.00		mg/L	0.400	05/04/21 00:48	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 14:42	B1E0284	CP1	5	
1,1,1-Trichloroethane	5.55	2.50	D	ug/L	0.438	05/07/21 14:42	B1E0284	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 14:42	B1E0284	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 14:42	B1E0284	CP1	5	
1,1-Dichloroethane	4.00	2.50	D	ug/L	0.334	05/07/21 14:42	B1E0284	CP1	5	
1,1-Dichloroethene	1.30	2.50	J, D	ug/L	0.477	05/07/21 14:42	B1E0284	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 14:42	B1E0284	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 14:42	B1E0284	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 14:42	B1E0284	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 14:42	B1E0284	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 14:42	B1E0284	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 14:42	B1E0284	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 14:42	B1E0284	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 14:42	B1E0284	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 14:42	B1E0284	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 14:42	B1E0284	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 14:42	B1E0284	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 14:42	B1E0284	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 14:42	B1E0284	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 14:42	B1E0284	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 14:42	B1E0284	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 14:42	B1E0284	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 14:42	B1E0284	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 14:42	B1E0284	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 14:42	B1E0284	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 14:42	B1E0284	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 14:42	B1E0284	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 14:42	B1E0284	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 14:42	B1E0284	CP1	5	
Carbon disulfide	2.35	5.00	J, D	ug/L	0.700	05/07/21 14:42	B1E0284	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 14:42	B1E0284	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 14:42	B1E0284	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 14:42	B1E0284	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 14:42	B1E0284	CP1	5	
Chloromethane	< 2.50	5.00	U	ug/L	0.960	05/07/21 14:42	B1E0284	CP1	5	
cis-1,2-Dichloroethene	402	12.5	D	ug/L	2.56	05/07/21 17:00	B1E0284	CP1	25	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 14:42	B1E0284	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 14:42	B1E0284	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 14:42	B1E0284	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-7
Report Date: 05/18/2021
Collection Date: 04/28/2021 11:05
Matrix: Groundwater
Lab ID: 21D1010-09 (Continued)

Analyses	EMT Reporting			Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
	Result	Limit	Qual						
Volatile Organic Compounds by GC/MS (Continued)									
Method: SW8260B / SW5030 (Continued)									
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 14:42	B1E0284	CP1	5
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 14:42	B1E0284	CP1	5
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 14:42	B1E0284	CP1	5
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 14:42	B1E0284	CP1	5
m,p-Xylene	0.450	5.00	J, D	ug/L	0.444	05/07/21 14:42	B1E0284	CP1	5
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 14:42	B1E0284	CP1	5
Methylene chloride	3.05	10.0	J, D	ug/L	1.12	05/07/21 14:42	B1E0284	CP1	5
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 14:42	B1E0284	CP1	5
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 14:42	B1E0284	CP1	5
o-Xylene	0.300	2.50	J, D	ug/L	0.208	05/07/21 14:42	B1E0284	CP1	5
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 14:42	B1E0284	CP1	5
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 14:42	B1E0284	CP1	5
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 14:42	B1E0284	CP1	5
Tetrachloroethene	1.35	2.50	J, D	ug/L	0.892	05/07/21 14:42	B1E0284	CP1	5
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 14:42	B1E0284	CP1	5
trans-1,2-Dichloroethene	21.6	2.50	D	ug/L	0.428	05/07/21 14:42	B1E0284	CP1	5
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 14:42	B1E0284	CP1	5
Trichloroethene	18.4	2.50	D	ug/L	0.390	05/07/21 14:42	B1E0284	CP1	5
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 14:42	B1E0284	CP1	5
Vinyl chloride	< 2.50	5.00	U	ug/L	0.644	05/07/21 14:42	B1E0284	CP1	5
Xylenes, Total	0.750	7.50	J, D	ug/L	0.652	05/07/21 14:42	B1E0284	CP1	5
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 98%</i>	<i>Limits: 89-119</i>	<i>05/07/21 14:42</i>	<i>B1E0284</i>	<i>CP1</i>	<i>5</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 101%</i>	<i>Limits: 86-122</i>	<i>05/07/21 14:42</i>	<i>B1E0284</i>	<i>CP1</i>	<i>5</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>	<i>05/07/21 14:42</i>	<i>B1E0284</i>	<i>CP1</i>	<i>5</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 96%</i>	<i>Limits: 89-108</i>	<i>05/07/21 14:42</i>	<i>B1E0284</i>	<i>CP1</i>	<i>5</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 104%</i>	<i>Limits: 90-124</i>	<i>05/07/21 14:42</i>	<i>B1E0284</i>	<i>CP1</i>	<i>5</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 99%</i>	<i>Limits: 90-118</i>	<i>05/07/21 14:42</i>	<i>B1E0284</i>	<i>CP1</i>	<i>5</i>

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	0.120	0.500	J	ug/L	0.0625	05/03/21 20:40	B1E0042	CP1	1
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 91%</i>	<i>Limits: 80-120</i>	<i>05/03/21 20:40</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-8
Report Date: 05/18/2021
Collection Date: 04/27/2021 13:10
Matrix: Groundwater
Lab ID: 21D1010-10

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.86	1.00		mg/L	0.400	05/04/21 01:12	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 06:52	B1E0244	CP1	5	
1,1,1-Trichloroethane	< 1.00	2.50	U	ug/L	0.438	05/07/21 06:52	B1E0244	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 06:52	B1E0244	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 06:52	B1E0244	CP1	5	
1,1-Dichloroethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 06:52	B1E0244	CP1	5	
1,1-Dichloroethene	< 1.00	2.50	U	ug/L	0.477	05/07/21 06:52	B1E0244	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 06:52	B1E0244	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 06:52	B1E0244	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 06:52	B1E0244	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 06:52	B1E0244	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 06:52	B1E0244	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 06:52	B1E0244	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 06:52	B1E0244	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 06:52	B1E0244	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 06:52	B1E0244	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 06:52	B1E0244	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 06:52	B1E0244	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 06:52	B1E0244	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 06:52	B1E0244	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 06:52	B1E0244	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 06:52	B1E0244	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 06:52	B1E0244	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 06:52	B1E0244	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 06:52	B1E0244	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 06:52	B1E0244	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 06:52	B1E0244	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 06:52	B1E0244	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 06:52	B1E0244	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 06:52	B1E0244	CP1	5	
Carbon disulfide	2.15	5.00	J, D	ug/L	0.700	05/07/21 06:52	B1E0244	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 06:52	B1E0244	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 06:52	B1E0244	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 06:52	B1E0244	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 06:52	B1E0244	CP1	5	
Chloromethane	1.35	5.00	J, D	ug/L	0.960	05/07/21 06:52	B1E0244	CP1	5	
cis-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.513	05/07/21 06:52	B1E0244	CP1	5	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 06:52	B1E0244	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 06:52	B1E0244	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 06:52	B1E0244	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-8
Report Date: 05/18/2021
Collection Date: 04/27/2021 13:10
Matrix: Groundwater
Lab ID: 21D1010-10 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 06:52	B1E0244	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 06:52	B1E0244	CP1	5	
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 06:52	B1E0244	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 06:52	B1E0244	CP1	5	
m,p-Xylene	0.450	5.00	J, D	ug/L	0.444	05/07/21 06:52	B1E0244	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 06:52	B1E0244	CP1	5	
Methylene chloride	4.45	10.0	J, D	ug/L	1.12	05/07/21 06:52	B1E0244	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 06:52	B1E0244	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 06:52	B1E0244	CP1	5	
o-Xylene	< 1.00	2.50	U	ug/L	0.208	05/07/21 06:52	B1E0244	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 06:52	B1E0244	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 06:52	B1E0244	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 06:52	B1E0244	CP1	5	
Tetrachloroethene	< 1.00	2.50	U	ug/L	0.892	05/07/21 06:52	B1E0244	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 06:52	B1E0244	CP1	5	
trans-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.428	05/07/21 06:52	B1E0244	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 06:52	B1E0244	CP1	5	
Trichloroethene	< 1.00	2.50	U	ug/L	0.390	05/07/21 06:52	B1E0244	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 06:52	B1E0244	CP1	5	
Vinyl chloride	< 2.50	5.00	U	ug/L	0.644	05/07/21 06:52	B1E0244	CP1	5	
Xylenes, Total	< 3.00	7.50	U	ug/L	0.652	05/07/21 06:52	B1E0244	CP1	5	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 99%</i>	<i>Limits: 89-119</i>	<i>05/07/21 06:52</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 86-122</i>	<i>05/07/21 06:52</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 90-105</i>	<i>05/07/21 06:52</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 97%</i>	<i>Limits: 89-108</i>	<i>05/07/21 06:52</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 98%</i>	<i>Limits: 90-124</i>	<i>05/07/21 06:52</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 98%</i>	<i>Limits: 90-118</i>	<i>05/07/21 06:52</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
Subcontracted Analyses										
Method: SW8260-SIM Modified / SW5030										
1,4-Dioxane	< 0.200	0.500	U	ug/L	0.0625	05/03/21 21:08	B1E0042	CP1	1	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 86%</i>	<i>Limits: 80-120</i>	<i>05/03/21 21:08</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-9
Report Date: 05/18/2021
Collection Date: 04/27/2021 14:20
Matrix: Groundwater
Lab ID: 21D1010-11

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	2.64	1.00		mg/L	0.400	05/04/21 01:33	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 07:20	B1E0244	CP1	5	
1,1,1-Trichloroethane	< 1.00	2.50	U	ug/L	0.438	05/07/21 07:20	B1E0244	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 07:20	B1E0244	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 07:20	B1E0244	CP1	5	
1,1-Dichloroethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 07:20	B1E0244	CP1	5	
1,1-Dichloroethene	< 1.00	2.50	U	ug/L	0.477	05/07/21 07:20	B1E0244	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 07:20	B1E0244	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 07:20	B1E0244	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 07:20	B1E0244	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 07:20	B1E0244	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 07:20	B1E0244	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 07:20	B1E0244	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 07:20	B1E0244	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 07:20	B1E0244	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 07:20	B1E0244	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 07:20	B1E0244	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 07:20	B1E0244	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 07:20	B1E0244	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 07:20	B1E0244	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 07:20	B1E0244	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 07:20	B1E0244	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 07:20	B1E0244	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 07:20	B1E0244	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 07:20	B1E0244	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 07:20	B1E0244	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 07:20	B1E0244	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 07:20	B1E0244	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 07:20	B1E0244	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 07:20	B1E0244	CP1	5	
Carbon disulfide	2.40	5.00	J, D	ug/L	0.700	05/07/21 07:20	B1E0244	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 07:20	B1E0244	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 07:20	B1E0244	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 07:20	B1E0244	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 07:20	B1E0244	CP1	5	
Chloromethane	< 2.50	5.00	U	ug/L	0.960	05/07/21 07:20	B1E0244	CP1	5	
cis-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.513	05/07/21 07:20	B1E0244	CP1	5	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 07:20	B1E0244	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 07:20	B1E0244	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 07:20	B1E0244	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-9
Report Date: 05/18/2021
Collection Date: 04/27/2021 14:20
Matrix: Groundwater
Lab ID: 21D1010-11 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 07:20	B1E0244	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 07:20	B1E0244	CP1	5	
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 07:20	B1E0244	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 07:20	B1E0244	CP1	5	
m,p-Xylene	0.450	5.00	J, D	ug/L	0.444	05/07/21 07:20	B1E0244	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 07:20	B1E0244	CP1	5	
Methylene chloride	4.90	10.0	J, D	ug/L	1.12	05/07/21 07:20	B1E0244	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 07:20	B1E0244	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 07:20	B1E0244	CP1	5	
o-Xylene	0.300	2.50	J, D	ug/L	0.208	05/07/21 07:20	B1E0244	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 07:20	B1E0244	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 07:20	B1E0244	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 07:20	B1E0244	CP1	5	
Tetrachloroethene	< 1.00	2.50	U	ug/L	0.892	05/07/21 07:20	B1E0244	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 07:20	B1E0244	CP1	5	
trans-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.428	05/07/21 07:20	B1E0244	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 07:20	B1E0244	CP1	5	
Trichloroethene	< 1.00	2.50	U	ug/L	0.390	05/07/21 07:20	B1E0244	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 07:20	B1E0244	CP1	5	
Vinyl chloride	< 2.50	5.00	U	ug/L	0.644	05/07/21 07:20	B1E0244	CP1	5	
Xylenes, Total	0.750	7.50	J, D	ug/L	0.652	05/07/21 07:20	B1E0244	CP1	5	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 104%</i>	<i>Limits: 89-119</i>	<i>05/07/21 07:20</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 109%</i>	<i>Limits: 86-122</i>	<i>05/07/21 07:20</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 90-105</i>	<i>05/07/21 07:20</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 100%</i>	<i>Limits: 89-108</i>	<i>05/07/21 07:20</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 105%</i>	<i>Limits: 90-124</i>	<i>05/07/21 07:20</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 90-118</i>	<i>05/07/21 07:20</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500	U	ug/L	0.0625	05/03/21 21:36	B1E0042	CP1	1
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 86%</i>	<i>Limits: 80-120</i>	<i>05/03/21 21:36</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-10
Report Date: 05/18/2021
Collection Date: 04/27/2021 15:40
Matrix: Groundwater
Lab ID: 21D1010-12

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	1.22	1.00		mg/L	0.400	05/04/21 01:56	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 07:49	B1E0244	CP1	5	
1,1,1-Trichloroethane	< 1.00	2.50	U	ug/L	0.438	05/07/21 07:49	B1E0244	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 07:49	B1E0244	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 07:49	B1E0244	CP1	5	
1,1-Dichloroethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 07:49	B1E0244	CP1	5	
1,1-Dichloroethene	< 1.00	2.50	U	ug/L	0.477	05/07/21 07:49	B1E0244	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 07:49	B1E0244	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 07:49	B1E0244	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 07:49	B1E0244	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 07:49	B1E0244	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 07:49	B1E0244	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 07:49	B1E0244	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 07:49	B1E0244	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 07:49	B1E0244	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 07:49	B1E0244	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 07:49	B1E0244	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 07:49	B1E0244	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 07:49	B1E0244	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 07:49	B1E0244	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 07:49	B1E0244	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 07:49	B1E0244	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 07:49	B1E0244	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 07:49	B1E0244	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 07:49	B1E0244	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 07:49	B1E0244	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 07:49	B1E0244	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 07:49	B1E0244	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 07:49	B1E0244	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 07:49	B1E0244	CP1	5	
Carbon disulfide	2.20	5.00	J, D	ug/L	0.700	05/07/21 07:49	B1E0244	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 07:49	B1E0244	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 07:49	B1E0244	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 07:49	B1E0244	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 07:49	B1E0244	CP1	5	
Chloromethane	< 2.50	5.00	U	ug/L	0.960	05/07/21 07:49	B1E0244	CP1	5	
cis-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.513	05/07/21 07:49	B1E0244	CP1	5	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 07:49	B1E0244	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 07:49	B1E0244	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 07:49	B1E0244	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-10
Report Date: 05/18/2021
Collection Date: 04/27/2021 15:40
Matrix: Groundwater
Lab ID: 21D1010-12 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 07:49	B1E0244	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 07:49	B1E0244	CP1	5	
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 07:49	B1E0244	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 07:49	B1E0244	CP1	5	
m,p-Xylene	0.450	5.00	J, D	ug/L	0.444	05/07/21 07:49	B1E0244	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 07:49	B1E0244	CP1	5	
Methylene chloride	4.00	10.0	J, D	ug/L	1.12	05/07/21 07:49	B1E0244	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 07:49	B1E0244	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 07:49	B1E0244	CP1	5	
o-Xylene	< 1.00	2.50	U	ug/L	0.208	05/07/21 07:49	B1E0244	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 07:49	B1E0244	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 07:49	B1E0244	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 07:49	B1E0244	CP1	5	
Tetrachloroethene	< 1.00	2.50	U	ug/L	0.892	05/07/21 07:49	B1E0244	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 07:49	B1E0244	CP1	5	
trans-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.428	05/07/21 07:49	B1E0244	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 07:49	B1E0244	CP1	5	
Trichloroethene	< 1.00	2.50	U	ug/L	0.390	05/07/21 07:49	B1E0244	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 07:49	B1E0244	CP1	5	
Vinyl chloride	< 2.50	5.00	U	ug/L	0.644	05/07/21 07:49	B1E0244	CP1	5	
Xylenes, Total	< 3.00	7.50	U	ug/L	0.652	05/07/21 07:49	B1E0244	CP1	5	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 100%</i>	<i>Limits: 89-119</i>	<i>05/07/21 07:49</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 105%</i>	<i>Limits: 86-122</i>	<i>05/07/21 07:49</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 102%</i>	<i>Limits: 90-105</i>	<i>05/07/21 07:49</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 97%</i>	<i>Limits: 89-108</i>	<i>05/07/21 07:49</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 99%</i>	<i>Limits: 90-124</i>	<i>05/07/21 07:49</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 101%</i>	<i>Limits: 90-118</i>	<i>05/07/21 07:49</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
Subcontracted Analyses										
Method: SW8260-SIM Modified / SW5030										
1,4-Dioxane	< 0.200	0.500	U	ug/L	0.0625	05/03/21 22:04	B1E0042	CP1	1	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 86%</i>	<i>Limits: 80-120</i>	<i>05/03/21 22:04</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-11
Report Date: 05/18/2021
Collection Date: 04/27/2021 16:20
Matrix: Groundwater
Lab ID: 21D1010-13

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	1.81	1.00		mg/L	0.400	05/04/21 02:16	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 08:18	B1E0244	CP1	5	
1,1,1-Trichloroethane	< 1.00	2.50	U	ug/L	0.438	05/07/21 08:18	B1E0244	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 08:18	B1E0244	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 08:18	B1E0244	CP1	5	
1,1-Dichloroethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 08:18	B1E0244	CP1	5	
1,1-Dichloroethene	< 1.00	2.50	U	ug/L	0.477	05/07/21 08:18	B1E0244	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 08:18	B1E0244	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 08:18	B1E0244	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 08:18	B1E0244	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 08:18	B1E0244	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 08:18	B1E0244	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 08:18	B1E0244	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 08:18	B1E0244	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 08:18	B1E0244	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 08:18	B1E0244	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 08:18	B1E0244	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 08:18	B1E0244	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 08:18	B1E0244	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 08:18	B1E0244	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 08:18	B1E0244	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 08:18	B1E0244	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 08:18	B1E0244	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 08:18	B1E0244	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 08:18	B1E0244	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 08:18	B1E0244	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 08:18	B1E0244	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 08:18	B1E0244	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 08:18	B1E0244	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 08:18	B1E0244	CP1	5	
Carbon disulfide	2.15	5.00	J, D	ug/L	0.700	05/07/21 08:18	B1E0244	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 08:18	B1E0244	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 08:18	B1E0244	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 08:18	B1E0244	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 08:18	B1E0244	CP1	5	
Chloromethane	1.40	5.00	J, D	ug/L	0.960	05/07/21 08:18	B1E0244	CP1	5	
cis-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.513	05/07/21 08:18	B1E0244	CP1	5	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 08:18	B1E0244	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 08:18	B1E0244	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 08:18	B1E0244	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-11
Report Date: 05/18/2021
Collection Date: 04/27/2021 16:20
Matrix: Groundwater
Lab ID: 21D1010-13 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 08:18	B1E0244	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 08:18	B1E0244	CP1	5	
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 08:18	B1E0244	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 08:18	B1E0244	CP1	5	
m,p-Xylene	< 2.00	5.00	U	ug/L	0.444	05/07/21 08:18	B1E0244	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 08:18	B1E0244	CP1	5	
Methylene chloride	4.00	10.0	J, D	ug/L	1.12	05/07/21 08:18	B1E0244	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 08:18	B1E0244	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 08:18	B1E0244	CP1	5	
o-Xylene	0.250	2.50	J, D	ug/L	0.208	05/07/21 08:18	B1E0244	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 08:18	B1E0244	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 08:18	B1E0244	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 08:18	B1E0244	CP1	5	
Tetrachloroethene	< 1.00	2.50	U	ug/L	0.892	05/07/21 08:18	B1E0244	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 08:18	B1E0244	CP1	5	
trans-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.428	05/07/21 08:18	B1E0244	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 08:18	B1E0244	CP1	5	
Trichloroethene	< 1.00	2.50	U	ug/L	0.390	05/07/21 08:18	B1E0244	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 08:18	B1E0244	CP1	5	
Vinyl chloride	< 2.50	5.00	U	ug/L	0.644	05/07/21 08:18	B1E0244	CP1	5	
Xylenes, Total	< 3.00	7.50	U	ug/L	0.652	05/07/21 08:18	B1E0244	CP1	5	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 103%</i>	<i>Limits: 89-119</i>	<i>05/07/21 08:18</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 107%</i>	<i>Limits: 86-122</i>	<i>05/07/21 08:18</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 90-105</i>	<i>05/07/21 08:18</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 96%</i>	<i>Limits: 89-108</i>	<i>05/07/21 08:18</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 97%</i>	<i>Limits: 90-124</i>	<i>05/07/21 08:18</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 96%</i>	<i>Limits: 90-118</i>	<i>05/07/21 08:18</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
Subcontracted Analyses										
Method: SW8260-SIM Modified / SW5030										
1,4-Dioxane	< 0.200	0.500	U	ug/L	0.0625	05/03/21 22:32	B1E0042	CP1	1	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 86%</i>	<i>Limits: 80-120</i>	<i>05/03/21 22:32</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-12
Report Date: 05/18/2021
Collection Date: 04/27/2021 10:00
Matrix: Groundwater
Lab ID: 21D1010-14

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	1.09	1.00		mg/L	0.400	05/04/21 02:34	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 08:47	B1E0244	CP1	5	
1,1,1-Trichloroethane	< 1.00	2.50	U	ug/L	0.438	05/07/21 08:47	B1E0244	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 08:47	B1E0244	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 08:47	B1E0244	CP1	5	
1,1-Dichloroethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 08:47	B1E0244	CP1	5	
1,1-Dichloroethene	< 1.00	2.50	U	ug/L	0.477	05/07/21 08:47	B1E0244	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 08:47	B1E0244	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 08:47	B1E0244	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 08:47	B1E0244	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 08:47	B1E0244	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 08:47	B1E0244	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 08:47	B1E0244	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 08:47	B1E0244	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 08:47	B1E0244	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 08:47	B1E0244	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 08:47	B1E0244	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 08:47	B1E0244	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 08:47	B1E0244	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 08:47	B1E0244	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 08:47	B1E0244	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 08:47	B1E0244	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 08:47	B1E0244	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 08:47	B1E0244	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 08:47	B1E0244	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 08:47	B1E0244	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 08:47	B1E0244	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 08:47	B1E0244	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 08:47	B1E0244	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 08:47	B1E0244	CP1	5	
Carbon disulfide	2.00	5.00	J, D	ug/L	0.700	05/07/21 08:47	B1E0244	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 08:47	B1E0244	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 08:47	B1E0244	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 08:47	B1E0244	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 08:47	B1E0244	CP1	5	
Chloromethane	< 2.50	5.00	U	ug/L	0.960	05/07/21 08:47	B1E0244	CP1	5	
cis-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.513	05/07/21 08:47	B1E0244	CP1	5	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 08:47	B1E0244	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 08:47	B1E0244	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 08:47	B1E0244	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-12
Report Date: 05/18/2021
Collection Date: 04/27/2021 10:00
Matrix: Groundwater
Lab ID: 21D1010-14 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 08:47	B1E0244	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 08:47	B1E0244	CP1	5	
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 08:47	B1E0244	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 08:47	B1E0244	CP1	5	
m,p-Xylene	0.450	5.00	J, D	ug/L	0.444	05/07/21 08:47	B1E0244	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 08:47	B1E0244	CP1	5	
Methylene chloride	4.05	10.0	J, D	ug/L	1.12	05/07/21 08:47	B1E0244	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 08:47	B1E0244	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 08:47	B1E0244	CP1	5	
o-Xylene	< 1.00	2.50	U	ug/L	0.208	05/07/21 08:47	B1E0244	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 08:47	B1E0244	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 08:47	B1E0244	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 08:47	B1E0244	CP1	5	
Tetrachloroethene	< 1.00	2.50	U	ug/L	0.892	05/07/21 08:47	B1E0244	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 08:47	B1E0244	CP1	5	
trans-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.428	05/07/21 08:47	B1E0244	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 08:47	B1E0244	CP1	5	
Trichloroethene	< 1.00	2.50	U	ug/L	0.390	05/07/21 08:47	B1E0244	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 08:47	B1E0244	CP1	5	
Vinyl chloride	< 2.50	5.00	U	ug/L	0.644	05/07/21 08:47	B1E0244	CP1	5	
Xylenes, Total	< 3.00	7.50	U	ug/L	0.652	05/07/21 08:47	B1E0244	CP1	5	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 103%</i>	<i>Limits: 89-119</i>	<i>05/07/21 08:47</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 105%</i>	<i>Limits: 86-122</i>	<i>05/07/21 08:47</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 102%</i>	<i>Limits: 90-105</i>	<i>05/07/21 08:47</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 96%</i>	<i>Limits: 89-108</i>	<i>05/07/21 08:47</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 96%</i>	<i>Limits: 90-124</i>	<i>05/07/21 08:47</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 98%</i>	<i>Limits: 90-118</i>	<i>05/07/21 08:47</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
Subcontracted Analyses										
Method: SW8260-SIM Modified / SW5030										
1,4-Dioxane	< 0.200	0.500	U	ug/L	0.0625	05/03/21 23:00	B1E0042	CP1	1	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 86%</i>	<i>Limits: 80-120</i>	<i>05/03/21 23:00</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-13
Report Date: 05/18/2021
Collection Date: 04/27/2021 11:05
Matrix: Groundwater
Lab ID: 21D1010-15

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	1.22	1.00			mg/L	0.400	05/04/21 04:36	B1E0035	tb2	1
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U		ug/L	0.325	05/07/21 09:15	B1E0244	CP1	5
1,1,1-Trichloroethane	< 1.00	2.50	U		ug/L	0.438	05/07/21 09:15	B1E0244	CP1	5
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U		ug/L	0.310	05/07/21 09:15	B1E0244	CP1	5
1,1,2-Trichloroethane	< 1.00	2.50	U		ug/L	0.416	05/07/21 09:15	B1E0244	CP1	5
1,1-Dichloroethane	< 1.00	2.50	U		ug/L	0.334	05/07/21 09:15	B1E0244	CP1	5
1,1-Dichloroethene	< 1.00	2.50	U		ug/L	0.477	05/07/21 09:15	B1E0244	CP1	5
1,1-Dichloropropene	< 1.00	2.50	U		ug/L	0.350	05/07/21 09:15	B1E0244	CP1	5
1,2,3-Trichlorobenzene	< 1.00	2.50	U		ug/L	0.510	05/07/21 09:15	B1E0244	CP1	5
1,2,3-Trichloropropane	< 1.00	2.50	U		ug/L	0.456	05/07/21 09:15	B1E0244	CP1	5
1,2,4-Trimethylbenzene	< 1.00	2.50	U		ug/L	0.330	05/07/21 09:15	B1E0244	CP1	5
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U		ug/L	0.650	05/07/21 09:15	B1E0244	CP1	5
1,2-Dibromoethane	< 1.00	2.50	U		ug/L	0.266	05/07/21 09:15	B1E0244	CP1	5
1,2-Dichloroethane	< 1.00	2.50	U		ug/L	0.530	05/07/21 09:15	B1E0244	CP1	5
1,2-Dichloropropane	< 1.00	2.50	U		ug/L	0.512	05/07/21 09:15	B1E0244	CP1	5
1,3,5-Trimethylbenzene	< 1.00	2.50	U		ug/L	0.250	05/07/21 09:15	B1E0244	CP1	5
1,3-Dichloropropane	< 1.00	2.50	U		ug/L	0.340	05/07/21 09:15	B1E0244	CP1	5
2,2-Dichloropropane	< 1.00	2.50	U		ug/L	0.460	05/07/21 09:15	B1E0244	CP1	5
2-Butanone	< 3.50	8.75	U		ug/L	1.65	05/07/21 09:15	B1E0244	CP1	5
2-Chlorotoluene	< 1.00	2.50	U		ug/L	0.366	05/07/21 09:15	B1E0244	CP1	5
2-Hexanone	< 3.50	8.75	U		ug/L	0.358	05/07/21 09:15	B1E0244	CP1	5
4-Isopropyltoluene	< 1.00	2.50	U		ug/L	0.350	05/07/21 09:15	B1E0244	CP1	5
4-Methyl-2-pentanone	< 3.50	8.75	U		ug/L	0.675	05/07/21 09:15	B1E0244	CP1	5
Acetone	< 5.00	10.0	U		ug/L	2.59	05/07/21 09:15	B1E0244	CP1	5
Benzene	< 1.00	2.50	U		ug/L	0.254	05/07/21 09:15	B1E0244	CP1	5
Bromobenzene	< 1.00	2.50	U		ug/L	0.424	05/07/21 09:15	B1E0244	CP1	5
Bromochloromethane	< 1.00	2.50	U		ug/L	0.334	05/07/21 09:15	B1E0244	CP1	5
Bromodichloromethane	< 1.00	2.50	U		ug/L	0.266	05/07/21 09:15	B1E0244	CP1	5
Bromoform	< 1.00	2.50	U		ug/L	0.516	05/07/21 09:15	B1E0244	CP1	5
Bromomethane	< 2.50	5.00	U		ug/L	0.801	05/07/21 09:15	B1E0244	CP1	5
Carbon disulfide	2.15	5.00	J, D		ug/L	0.700	05/07/21 09:15	B1E0244	CP1	5
Carbon tetrachloride	< 1.00	2.50	U		ug/L	0.422	05/07/21 09:15	B1E0244	CP1	5
Chlorobenzene	< 1.00	2.50	U		ug/L	0.325	05/07/21 09:15	B1E0244	CP1	5
Chloroethane	< 1.00	2.50	U		ug/L	0.777	05/07/21 09:15	B1E0244	CP1	5
Chloroform	< 1.00	2.50	U		ug/L	0.506	05/07/21 09:15	B1E0244	CP1	5
Chloromethane	< 2.50	5.00	U		ug/L	0.960	05/07/21 09:15	B1E0244	CP1	5
cis-1,2-Dichloroethene	< 1.00	2.50	U		ug/L	0.513	05/07/21 09:15	B1E0244	CP1	5
cis-1,3-Dichloropropene	< 1.00	2.50	U		ug/L	0.294	05/07/21 09:15	B1E0244	CP1	5
Cyclohexane	< 1.00	2.50	U		ug/L	0.431	05/07/21 09:15	B1E0244	CP1	5
Dibromochloromethane	< 1.00	2.50	U		ug/L	0.380	05/07/21 09:15	B1E0244	CP1	5

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-13
Report Date: 05/18/2021
Collection Date: 04/27/2021 11:05
Matrix: Groundwater
Lab ID: 21D1010-15 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 09:15	B1E0244	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 09:15	B1E0244	CP1	5	
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 09:15	B1E0244	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 09:15	B1E0244	CP1	5	
m,p-Xylene	0.450	5.00	J, D	ug/L	0.444	05/07/21 09:15	B1E0244	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 09:15	B1E0244	CP1	5	
Methylene chloride	3.75	10.0	J, D	ug/L	1.12	05/07/21 09:15	B1E0244	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 09:15	B1E0244	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 09:15	B1E0244	CP1	5	
o-Xylene	< 1.00	2.50	U	ug/L	0.208	05/07/21 09:15	B1E0244	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 09:15	B1E0244	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 09:15	B1E0244	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 09:15	B1E0244	CP1	5	
Tetrachloroethene	< 1.00	2.50	U	ug/L	0.892	05/07/21 09:15	B1E0244	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 09:15	B1E0244	CP1	5	
trans-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.428	05/07/21 09:15	B1E0244	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 09:15	B1E0244	CP1	5	
Trichloroethene	< 1.00	2.50	U	ug/L	0.390	05/07/21 09:15	B1E0244	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 09:15	B1E0244	CP1	5	
Vinyl chloride	< 2.50	5.00	U	ug/L	0.644	05/07/21 09:15	B1E0244	CP1	5	
Xylenes, Total	< 3.00	7.50	U	ug/L	0.652	05/07/21 09:15	B1E0244	CP1	5	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 99%</i>	<i>Limits: 89-119</i>	<i>05/07/21 09:15</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 107%</i>	<i>Limits: 86-122</i>	<i>05/07/21 09:15</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 103%</i>	<i>Limits: 90-105</i>	<i>05/07/21 09:15</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 101%</i>	<i>Limits: 89-108</i>	<i>05/07/21 09:15</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 103%</i>	<i>Limits: 90-124</i>	<i>05/07/21 09:15</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 90-118</i>	<i>05/07/21 09:15</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
Subcontracted Analyses										
Method: SW8260-SIM Modified / SW5030										
1,4-Dioxane	< 0.200	0.500	U	ug/L	0.0625	05/03/21 23:29	B1E0042	CP1	1	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 84%</i>	<i>Limits: 80-120</i>	<i>05/03/21 23:29</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-14
Report Date: 05/18/2021
Collection Date: 04/28/2021 09:25
Matrix: Groundwater
Lab ID: 21D1010-16

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	1.59	1.00		mg/L	0.400	05/04/21 04:55	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 09:44	B1E0244	CP1	5	
1,1,1-Trichloroethane	< 1.00	2.50	U	ug/L	0.438	05/07/21 09:44	B1E0244	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 09:44	B1E0244	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 09:44	B1E0244	CP1	5	
1,1-Dichloroethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 09:44	B1E0244	CP1	5	
1,1-Dichloroethene	< 1.00	2.50	U	ug/L	0.477	05/07/21 09:44	B1E0244	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 09:44	B1E0244	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 09:44	B1E0244	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 09:44	B1E0244	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 09:44	B1E0244	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 09:44	B1E0244	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 09:44	B1E0244	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 09:44	B1E0244	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 09:44	B1E0244	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 09:44	B1E0244	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 09:44	B1E0244	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 09:44	B1E0244	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 09:44	B1E0244	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 09:44	B1E0244	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 09:44	B1E0244	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 09:44	B1E0244	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 09:44	B1E0244	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 09:44	B1E0244	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 09:44	B1E0244	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 09:44	B1E0244	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 09:44	B1E0244	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 09:44	B1E0244	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 09:44	B1E0244	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 09:44	B1E0244	CP1	5	
Carbon disulfide	2.20	5.00	J, D	ug/L	0.700	05/07/21 09:44	B1E0244	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 09:44	B1E0244	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 09:44	B1E0244	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 09:44	B1E0244	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 09:44	B1E0244	CP1	5	
Chloromethane	< 2.50	5.00	U	ug/L	0.960	05/07/21 09:44	B1E0244	CP1	5	
cis-1,2-Dichloroethene	28.7	2.50	D	ug/L	0.513	05/07/21 09:44	B1E0244	CP1	5	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 09:44	B1E0244	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 09:44	B1E0244	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 09:44	B1E0244	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: MW-14
Report Date: 05/18/2021
Collection Date: 04/28/2021 09:25
Matrix: Groundwater
Lab ID: 21D1010-16 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 09:44	B1E0244	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 09:44	B1E0244	CP1	5	
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 09:44	B1E0244	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 09:44	B1E0244	CP1	5	
m,p-Xylene	< 2.00	5.00	U	ug/L	0.444	05/07/21 09:44	B1E0244	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 09:44	B1E0244	CP1	5	
Methylene chloride	3.65	10.0	J, D	ug/L	1.12	05/07/21 09:44	B1E0244	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 09:44	B1E0244	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 09:44	B1E0244	CP1	5	
o-Xylene	0.250	2.50	J, D	ug/L	0.208	05/07/21 09:44	B1E0244	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 09:44	B1E0244	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 09:44	B1E0244	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 09:44	B1E0244	CP1	5	
Tetrachloroethene	< 1.00	2.50	U	ug/L	0.892	05/07/21 09:44	B1E0244	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 09:44	B1E0244	CP1	5	
trans-1,2-Dichloroethene	2.90	2.50	D	ug/L	0.428	05/07/21 09:44	B1E0244	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 09:44	B1E0244	CP1	5	
Trichloroethene	< 1.00	2.50	U	ug/L	0.390	05/07/21 09:44	B1E0244	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 09:44	B1E0244	CP1	5	
Vinyl chloride	2.00	5.00	J, D	ug/L	0.644	05/07/21 09:44	B1E0244	CP1	5	
Xylenes, Total	< 3.00	7.50	U	ug/L	0.652	05/07/21 09:44	B1E0244	CP1	5	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 102%</i>	<i>Limits: 89-119</i>	<i>05/07/21 09:44</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 86-122</i>	<i>05/07/21 09:44</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 102%</i>	<i>Limits: 90-105</i>	<i>05/07/21 09:44</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 100%</i>	<i>Limits: 89-108</i>	<i>05/07/21 09:44</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 90-124</i>	<i>05/07/21 09:44</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 101%</i>	<i>Limits: 90-118</i>	<i>05/07/21 09:44</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	0.230	0.500	J	ug/L	0.0625	05/03/21 23:57	B1E0042	CP1	1
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 84%</i>	<i>Limits: 80-120</i>	<i>05/03/21 23:57</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: PZ-1
Report Date: 05/18/2021
Collection Date: 04/28/2021 14:10
Matrix: Groundwater
Lab ID: 21D1010-17

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	6.60	1.00		mg/L	0.400	05/04/21 05:14	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 15:10	B1E0284	CP1	5	
1,1,1-Trichloroethane	< 1.00	2.50	U	ug/L	0.438	05/07/21 15:10	B1E0284	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 15:10	B1E0284	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 15:10	B1E0284	CP1	5	
1,1-Dichloroethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 15:10	B1E0284	CP1	5	
1,1-Dichloroethene	2.75	2.50	D	ug/L	0.477	05/07/21 15:10	B1E0284	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 15:10	B1E0284	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 15:10	B1E0284	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 15:10	B1E0284	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 15:10	B1E0284	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 15:10	B1E0284	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 15:10	B1E0284	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 15:10	B1E0284	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 15:10	B1E0284	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 15:10	B1E0284	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 15:10	B1E0284	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 15:10	B1E0284	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 15:10	B1E0284	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 15:10	B1E0284	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 15:10	B1E0284	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 15:10	B1E0284	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 15:10	B1E0284	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 15:10	B1E0284	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 15:10	B1E0284	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 15:10	B1E0284	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 15:10	B1E0284	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 15:10	B1E0284	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 15:10	B1E0284	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 15:10	B1E0284	CP1	5	
Carbon disulfide	2.10	5.00	J, D	ug/L	0.700	05/07/21 15:10	B1E0284	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 15:10	B1E0284	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 15:10	B1E0284	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 15:10	B1E0284	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 15:10	B1E0284	CP1	5	
Chloromethane	< 2.50	5.00	U	ug/L	0.960	05/07/21 15:10	B1E0284	CP1	5	
cis-1,2-Dichloroethene	1390	50.0	D	ug/L	10.3	05/07/21 17:29	B1E0284	CP1	100	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 15:10	B1E0284	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 15:10	B1E0284	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 15:10	B1E0284	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: PZ-1
Report Date: 05/18/2021
Collection Date: 04/28/2021 14:10
Matrix: Groundwater
Lab ID: 21D1010-17 (Continued)

Analyses	EMT Reporting			Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
	Result	Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 15:10	B1E0284	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 15:10	B1E0284	CP1	5	
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 15:10	B1E0284	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 15:10	B1E0284	CP1	5	
m,p-Xylene	0.500	5.00	J, D	ug/L	0.444	05/07/21 15:10	B1E0284	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 15:10	B1E0284	CP1	5	
Methylene chloride	3.50	10.0	J, D	ug/L	1.12	05/07/21 15:10	B1E0284	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 15:10	B1E0284	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 15:10	B1E0284	CP1	5	
o-Xylene	0.300	2.50	J, D	ug/L	0.208	05/07/21 15:10	B1E0284	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 15:10	B1E0284	CP1	5	
Styrene	0.250	2.50	J, D	ug/L	0.226	05/07/21 15:10	B1E0284	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 15:10	B1E0284	CP1	5	
Tetrachloroethene	147	2.50	D	ug/L	0.892	05/07/21 15:10	B1E0284	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 15:10	B1E0284	CP1	5	
trans-1,2-Dichloroethene	10.6	2.50	D	ug/L	0.428	05/07/21 15:10	B1E0284	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 15:10	B1E0284	CP1	5	
Trichloroethene	115	2.50	D	ug/L	0.390	05/07/21 15:10	B1E0284	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 15:10	B1E0284	CP1	5	
Vinyl chloride	6.80	5.00	D	ug/L	0.644	05/07/21 15:10	B1E0284	CP1	5	
Xylenes, Total	0.800	7.50	J, D	ug/L	0.652	05/07/21 15:10	B1E0284	CP1	5	

Surrogate: Dibromofluoromethane					Recovery: 103%	Limits: 89-119	05/07/21 15:10	B1E0284	CP1	5
Surrogate: 1,2-Dichloroethane-d4					Recovery: 106%	Limits: 86-122	05/07/21 15:10	B1E0284	CP1	5
Surrogate: Fluorobenzene					Recovery: 100%	Limits: 90-105	05/07/21 15:10	B1E0284	CP1	5
Surrogate: Toluene-d8					Recovery: 98%	Limits: 89-108	05/07/21 15:10	B1E0284	CP1	5
Surrogate: 4-Bromofluorobenzene					Recovery: 100%	Limits: 90-124	05/07/21 15:10	B1E0284	CP1	5
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 99%	Limits: 90-118	05/07/21 15:10	B1E0284	CP1	5

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500	U	ug/L	0.0625	05/04/21 00:25	B1E0042	CP1	1	

Surrogate: Toluene-d8					Recovery: 87%	Limits: 80-120	05/04/21 00:25	B1E0042	CP1	1

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: PZ-2
Report Date: 05/18/2021
Collection Date: 04/28/2021 08:30
Matrix: Groundwater
Lab ID: 21D1010-18

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	1.63	1.00		mg/L	0.400	05/04/21 05:30	B1E0035	tb2	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 10:13	B1E0244	CP1	5	
1,1,1-Trichloroethane	< 1.00	2.50	U	ug/L	0.438	05/07/21 10:13	B1E0244	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 10:13	B1E0244	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 10:13	B1E0244	CP1	5	
1,1-Dichloroethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 10:13	B1E0244	CP1	5	
1,1-Dichloroethene	< 1.00	2.50	U	ug/L	0.477	05/07/21 10:13	B1E0244	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 10:13	B1E0244	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 10:13	B1E0244	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 10:13	B1E0244	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 10:13	B1E0244	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 10:13	B1E0244	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 10:13	B1E0244	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 10:13	B1E0244	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 10:13	B1E0244	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 10:13	B1E0244	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 10:13	B1E0244	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 10:13	B1E0244	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 10:13	B1E0244	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 10:13	B1E0244	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 10:13	B1E0244	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 10:13	B1E0244	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 10:13	B1E0244	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 10:13	B1E0244	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 10:13	B1E0244	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 10:13	B1E0244	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 10:13	B1E0244	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 10:13	B1E0244	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 10:13	B1E0244	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 10:13	B1E0244	CP1	5	
Carbon disulfide	2.00	5.00	J, D	ug/L	0.700	05/07/21 10:13	B1E0244	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 10:13	B1E0244	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 10:13	B1E0244	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 10:13	B1E0244	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 10:13	B1E0244	CP1	5	
Chloromethane	< 2.50	5.00	U	ug/L	0.960	05/07/21 10:13	B1E0244	CP1	5	
cis-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.513	05/07/21 10:13	B1E0244	CP1	5	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 10:13	B1E0244	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 10:13	B1E0244	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 10:13	B1E0244	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: PZ-2
Report Date: 05/18/2021
Collection Date: 04/28/2021 08:30
Matrix: Groundwater
Lab ID: 21D1010-18 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 10:13	B1E0244	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 10:13	B1E0244	CP1	5	
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 10:13	B1E0244	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 10:13	B1E0244	CP1	5	
m,p-Xylene	< 2.00	5.00	U	ug/L	0.444	05/07/21 10:13	B1E0244	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 10:13	B1E0244	CP1	5	
Methylene chloride	3.70	10.0	J, D	ug/L	1.12	05/07/21 10:13	B1E0244	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 10:13	B1E0244	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 10:13	B1E0244	CP1	5	
o-Xylene	0.250	2.50	J, D	ug/L	0.208	05/07/21 10:13	B1E0244	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 10:13	B1E0244	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 10:13	B1E0244	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 10:13	B1E0244	CP1	5	
Tetrachloroethene	< 1.00	2.50	U	ug/L	0.892	05/07/21 10:13	B1E0244	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 10:13	B1E0244	CP1	5	
trans-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.428	05/07/21 10:13	B1E0244	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 10:13	B1E0244	CP1	5	
Trichloroethene	< 1.00	2.50	U	ug/L	0.390	05/07/21 10:13	B1E0244	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 10:13	B1E0244	CP1	5	
Vinyl chloride	< 2.50	5.00	U	ug/L	0.644	05/07/21 10:13	B1E0244	CP1	5	
Xylenes, Total	< 3.00	7.50	U	ug/L	0.652	05/07/21 10:13	B1E0244	CP1	5	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 102%</i>	<i>Limits: 89-119</i>	<i>05/07/21 10:13</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 109%</i>	<i>Limits: 86-122</i>	<i>05/07/21 10:13</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 90-105</i>	<i>05/07/21 10:13</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 97%</i>	<i>Limits: 89-108</i>	<i>05/07/21 10:13</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-124</i>	<i>05/07/21 10:13</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 99%</i>	<i>Limits: 90-118</i>	<i>05/07/21 10:13</i>	<i>B1E0244</i>	<i>CP1</i>	<i>5</i>	
Subcontracted Analyses										
Method: SW8260-SIM Modified / SW5030										
1,4-Dioxane	< 0.200	0.500	U	ug/L	0.0625	05/04/21 00:53	B1E0042	CP1	1	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 96%</i>	<i>Limits: 80-120</i>	<i>05/04/21 00:53</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: PZ-10
Report Date: 05/18/2021
Collection Date: 04/26/2021 15:50
Matrix: Groundwater
Lab ID: 21D1010-19

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
Wet Chemistry										
Method: SW9060										
Organic Carbon, Total	0.941	1.00	J	mg/L	0.400	05/04/21 17:00	B1E0078	GSB	1	
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.325	05/07/21 14:13	B1E0284	CP1	5	
1,1,1-Trichloroethane	< 1.00	2.50	U	ug/L	0.438	05/07/21 14:13	B1E0284	CP1	5	
1,1,2,2-Tetrachloroethane	< 1.00	2.50	U	ug/L	0.310	05/07/21 14:13	B1E0284	CP1	5	
1,1,2-Trichloroethane	< 1.00	2.50	U	ug/L	0.416	05/07/21 14:13	B1E0284	CP1	5	
1,1-Dichloroethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 14:13	B1E0284	CP1	5	
1,1-Dichloroethene	< 1.00	2.50	U	ug/L	0.477	05/07/21 14:13	B1E0284	CP1	5	
1,1-Dichloropropene	< 1.00	2.50	U	ug/L	0.350	05/07/21 14:13	B1E0284	CP1	5	
1,2,3-Trichlorobenzene	< 1.00	2.50	U	ug/L	0.510	05/07/21 14:13	B1E0284	CP1	5	
1,2,3-Trichloropropane	< 1.00	2.50	U	ug/L	0.456	05/07/21 14:13	B1E0284	CP1	5	
1,2,4-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.330	05/07/21 14:13	B1E0284	CP1	5	
1,2-Dibromo-3-chloropropane	< 2.50	5.00	U	ug/L	0.650	05/07/21 14:13	B1E0284	CP1	5	
1,2-Dibromoethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 14:13	B1E0284	CP1	5	
1,2-Dichloroethane	< 1.00	2.50	U	ug/L	0.530	05/07/21 14:13	B1E0284	CP1	5	
1,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.512	05/07/21 14:13	B1E0284	CP1	5	
1,3,5-Trimethylbenzene	< 1.00	2.50	U	ug/L	0.250	05/07/21 14:13	B1E0284	CP1	5	
1,3-Dichloropropane	< 1.00	2.50	U	ug/L	0.340	05/07/21 14:13	B1E0284	CP1	5	
2,2-Dichloropropane	< 1.00	2.50	U	ug/L	0.460	05/07/21 14:13	B1E0284	CP1	5	
2-Butanone	< 3.50	8.75	U	ug/L	1.65	05/07/21 14:13	B1E0284	CP1	5	
2-Chlorotoluene	< 1.00	2.50	U	ug/L	0.366	05/07/21 14:13	B1E0284	CP1	5	
2-Hexanone	< 3.50	8.75	U	ug/L	0.358	05/07/21 14:13	B1E0284	CP1	5	
4-Isopropyltoluene	< 1.00	2.50	U	ug/L	0.350	05/07/21 14:13	B1E0284	CP1	5	
4-Methyl-2-pentanone	< 3.50	8.75	U	ug/L	0.675	05/07/21 14:13	B1E0284	CP1	5	
Acetone	< 5.00	10.0	U	ug/L	2.59	05/07/21 14:13	B1E0284	CP1	5	
Benzene	< 1.00	2.50	U	ug/L	0.254	05/07/21 14:13	B1E0284	CP1	5	
Bromobenzene	< 1.00	2.50	U	ug/L	0.424	05/07/21 14:13	B1E0284	CP1	5	
Bromochloromethane	< 1.00	2.50	U	ug/L	0.334	05/07/21 14:13	B1E0284	CP1	5	
Bromodichloromethane	< 1.00	2.50	U	ug/L	0.266	05/07/21 14:13	B1E0284	CP1	5	
Bromoform	< 1.00	2.50	U	ug/L	0.516	05/07/21 14:13	B1E0284	CP1	5	
Bromomethane	< 2.50	5.00	U	ug/L	0.801	05/07/21 14:13	B1E0284	CP1	5	
Carbon disulfide	2.20	5.00	J, D	ug/L	0.700	05/07/21 14:13	B1E0284	CP1	5	
Carbon tetrachloride	< 1.00	2.50	U	ug/L	0.422	05/07/21 14:13	B1E0284	CP1	5	
Chlorobenzene	< 1.00	2.50	U	ug/L	0.325	05/07/21 14:13	B1E0284	CP1	5	
Chloroethane	< 1.00	2.50	U	ug/L	0.777	05/07/21 14:13	B1E0284	CP1	5	
Chloroform	< 1.00	2.50	U	ug/L	0.506	05/07/21 14:13	B1E0284	CP1	5	
Chloromethane	< 2.50	5.00	U	ug/L	0.960	05/07/21 14:13	B1E0284	CP1	5	
cis-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.513	05/07/21 14:13	B1E0284	CP1	5	
cis-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 14:13	B1E0284	CP1	5	
Cyclohexane	< 1.00	2.50	U	ug/L	0.431	05/07/21 14:13	B1E0284	CP1	5	
Dibromochloromethane	< 1.00	2.50	U	ug/L	0.380	05/07/21 14:13	B1E0284	CP1	5	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: PZ-10
Report Date: 05/18/2021
Collection Date: 04/26/2021 15:50
Matrix: Groundwater
Lab ID: 21D1010-19 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
Dibromomethane	< 1.00	2.50	U	ug/L	0.408	05/07/21 14:13	B1E0284	CP1	5	
Dichlorodifluoromethane	< 2.50	5.00	U	ug/L	0.648	05/07/21 14:13	B1E0284	CP1	5	
Ethylbenzene	< 1.00	2.50	U	ug/L	0.150	05/07/21 14:13	B1E0284	CP1	5	
Isopropylbenzene	< 1.00	2.50	U	ug/L	0.274	05/07/21 14:13	B1E0284	CP1	5	
m,p-Xylene	0.500	5.00	J, D	ug/L	0.444	05/07/21 14:13	B1E0284	CP1	5	
Methyl tert-butyl ether	< 1.00	2.50	U	ug/L	0.265	05/07/21 14:13	B1E0284	CP1	5	
Methylene chloride	4.05	10.0	J, D	ug/L	1.12	05/07/21 14:13	B1E0284	CP1	5	
n-Butylbenzene	< 2.50	5.00	U	ug/L	0.650	05/07/21 14:13	B1E0284	CP1	5	
n-Propylbenzene	< 1.00	2.50	U	ug/L	0.315	05/07/21 14:13	B1E0284	CP1	5	
o-Xylene	0.300	2.50	J, D	ug/L	0.208	05/07/21 14:13	B1E0284	CP1	5	
sec-Butylbenzene	< 1.00	2.50	U	ug/L	0.299	05/07/21 14:13	B1E0284	CP1	5	
Styrene	< 1.00	2.50	U	ug/L	0.226	05/07/21 14:13	B1E0284	CP1	5	
tert-Butylbenzene	< 1.00	2.50	U	ug/L	0.226	05/07/21 14:13	B1E0284	CP1	5	
Tetrachloroethene	< 1.00	2.50	U	ug/L	0.892	05/07/21 14:13	B1E0284	CP1	5	
Toluene	< 1.00	2.50	U	ug/L	0.286	05/07/21 14:13	B1E0284	CP1	5	
trans-1,2-Dichloroethene	< 1.00	2.50	U	ug/L	0.428	05/07/21 14:13	B1E0284	CP1	5	
trans-1,3-Dichloropropene	< 1.00	2.50	U	ug/L	0.294	05/07/21 14:13	B1E0284	CP1	5	
Trichloroethene	< 1.00	2.50	U	ug/L	0.390	05/07/21 14:13	B1E0284	CP1	5	
Trichlorofluoromethane	< 1.00	2.50	U	ug/L	0.252	05/07/21 14:13	B1E0284	CP1	5	
Vinyl chloride	< 2.50	5.00	U	ug/L	0.644	05/07/21 14:13	B1E0284	CP1	5	
Xylenes, Total	0.800	7.50	J, D	ug/L	0.652	05/07/21 14:13	B1E0284	CP1	5	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 102%</i>	<i>Limits: 89-119</i>	<i>05/07/21 14:13</i>	<i>B1E0284</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 86-122</i>	<i>05/07/21 14:13</i>	<i>B1E0284</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>	<i>05/07/21 14:13</i>	<i>B1E0284</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 99%</i>	<i>Limits: 89-108</i>	<i>05/07/21 14:13</i>	<i>B1E0284</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 103%</i>	<i>Limits: 90-124</i>	<i>05/07/21 14:13</i>	<i>B1E0284</i>	<i>CP1</i>	<i>5</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 100%</i>	<i>Limits: 90-118</i>	<i>05/07/21 14:13</i>	<i>B1E0284</i>	<i>CP1</i>	<i>5</i>	

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500	U	ug/L	0.0625	05/04/21 01:21	B1E0042	CP1	1
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 86%</i>	<i>Limits: 80-120</i>	<i>05/04/21 01:21</i>	<i>B1E0042</i>	<i>CP1</i>	<i>1</i>

Client Sample Results

(Continued)

Client: Geosyntec Consultants

Project: Milw Die Cast

Work Order: 21D1010

Client Sample ID: TB-04282021

Report Date: 05/18/2021

Collection Date: 04/26/2021 00:00

Matrix: Water

Lab ID: 21D1010-20

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS										
Method: SW8260B / SW5030										
1,1,1,2-Tetrachloroethane	< 0.200	0.500	U	ug/L	0.0650	05/07/21 01:35	B1E0244	CP1	1	
1,1,1-Trichloroethane	< 0.200	0.500	U	ug/L	0.0877	05/07/21 01:35	B1E0244	CP1	1	
1,1,2,2-Tetrachloroethane	< 0.200	0.500	U	ug/L	0.0621	05/07/21 01:35	B1E0244	CP1	1	
1,1,2-Trichloroethane	< 0.200	0.500	U	ug/L	0.0832	05/07/21 01:35	B1E0244	CP1	1	
1,1-Dichloroethane	< 0.200	0.500	U	ug/L	0.0669	05/07/21 01:35	B1E0244	CP1	1	
1,1-Dichloroethene	< 0.200	0.500	U	ug/L	0.0954	05/07/21 01:35	B1E0244	CP1	1	
1,1-Dichloropropene	< 0.200	0.500	U	ug/L	0.0699	05/07/21 01:35	B1E0244	CP1	1	
1,2,3-Trichlorobenzene	< 0.200	0.500	U	ug/L	0.102	05/07/21 01:35	B1E0244	CP1	1	
1,2,3-Trichloropropane	< 0.200	0.500	U	ug/L	0.0913	05/07/21 01:35	B1E0244	CP1	1	
1,2,4-Trimethylbenzene	< 0.200	0.500	U	ug/L	0.0661	05/07/21 01:35	B1E0244	CP1	1	
1,2-Dibromo-3-chloropropane	< 0.500	1.00	U	ug/L	0.130	05/07/21 01:35	B1E0244	CP1	1	
1,2-Dibromoethane	< 0.200	0.500	U	ug/L	0.0531	05/07/21 01:35	B1E0244	CP1	1	
1,2-Dichloroethane	< 0.200	0.500	U	ug/L	0.106	05/07/21 01:35	B1E0244	CP1	1	
1,2-Dichloropropane	< 0.200	0.500	U	ug/L	0.102	05/07/21 01:35	B1E0244	CP1	1	
1,3,5-Trimethylbenzene	< 0.200	0.500	U	ug/L	0.0500	05/07/21 01:35	B1E0244	CP1	1	
1,3-Dichloropropane	< 0.200	0.500	U	ug/L	0.0680	05/07/21 01:35	B1E0244	CP1	1	
2,2-Dichloropropane	< 0.200	0.500	U	ug/L	0.0920	05/07/21 01:35	B1E0244	CP1	1	
2-Butanone	< 0.700	1.75	U	ug/L	0.330	05/07/21 01:35	B1E0244	CP1	1	
2-Chlorotoluene	< 0.200	0.500	U	ug/L	0.0733	05/07/21 01:35	B1E0244	CP1	1	
2-Hexanone	< 0.700	1.75	U	ug/L	0.0716	05/07/21 01:35	B1E0244	CP1	1	
4-Isopropyltoluene	< 0.200	0.500	U	ug/L	0.0700	05/07/21 01:35	B1E0244	CP1	1	
4-Methyl-2-pentanone	< 0.700	1.75	U	ug/L	0.135	05/07/21 01:35	B1E0244	CP1	1	
Acetone	0.620	2.00	J	ug/L	0.518	05/07/21 01:35	B1E0244	CP1	1	
Benzene	< 0.200	0.500	U	ug/L	0.0507	05/07/21 01:35	B1E0244	CP1	1	
Bromobenzene	< 0.200	0.500	U	ug/L	0.0848	05/07/21 01:35	B1E0244	CP1	1	
Bromochloromethane	< 0.200	0.500	U	ug/L	0.0669	05/07/21 01:35	B1E0244	CP1	1	
Bromodichloromethane	< 0.200	0.500	U	ug/L	0.0531	05/07/21 01:35	B1E0244	CP1	1	
Bromoform	< 0.200	0.500	U	ug/L	0.103	05/07/21 01:35	B1E0244	CP1	1	
Bromomethane	< 0.500	1.00	U	ug/L	0.160	05/07/21 01:35	B1E0244	CP1	1	
Carbon disulfide	< 0.500	1.00	U	ug/L	0.140	05/07/21 01:35	B1E0244	CP1	1	
Carbon tetrachloride	< 0.200	0.500	U	ug/L	0.0844	05/07/21 01:35	B1E0244	CP1	1	
Chlorobenzene	< 0.200	0.500	U	ug/L	0.0650	05/07/21 01:35	B1E0244	CP1	1	
Chloroethane	< 0.200	0.500	U	ug/L	0.155	05/07/21 01:35	B1E0244	CP1	1	
Chloroform	< 0.200	0.500	U	ug/L	0.101	05/07/21 01:35	B1E0244	CP1	1	
Chloromethane	< 0.500	1.00	U	ug/L	0.192	05/07/21 01:35	B1E0244	CP1	1	
cis-1,2-Dichloroethene	< 0.200	0.500	U	ug/L	0.103	05/07/21 01:35	B1E0244	CP1	1	
cis-1,3-Dichloropropene	< 0.200	0.500	U	ug/L	0.0587	05/07/21 01:35	B1E0244	CP1	1	
Cyclohexane	< 0.200	0.500	U	ug/L	0.0862	05/07/21 01:35	B1E0244	CP1	1	
Dibromochloromethane	< 0.200	0.500	U	ug/L	0.0759	05/07/21 01:35	B1E0244	CP1	1	
Dibromomethane	< 0.200	0.500	U	ug/L	0.0817	05/07/21 01:35	B1E0244	CP1	1	
Dichlorodifluoromethane	< 0.500	1.00	U	ug/L	0.130	05/07/21 01:35	B1E0244	CP1	1	
Ethylbenzene	< 0.200	0.500	U	ug/L	0.0300	05/07/21 01:35	B1E0244	CP1	1	
Isopropylbenzene	< 0.200	0.500	U	ug/L	0.0549	05/07/21 01:35	B1E0244	CP1	1	

Client Sample Results

(Continued)

Client: Geosyntec Consultants
Project: Milw Die Cast
Work Order: 21D1010

Client Sample ID: TB-04282021
Report Date: 05/18/2021
Collection Date: 04/26/2021 00:00
Matrix: Water
Lab ID: 21D1010-20 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
Volatile Organic Compounds by GC/MS (Continued)										
Method: SW8260B / SW5030 (Continued)										
m,p-Xylene	< 0.400	1.00	U	ug/L	0.0889	05/07/21 01:35	B1E0244	CP1	1	
Methyl tert-butyl ether	< 0.200	0.500	U	ug/L	0.0530	05/07/21 01:35	B1E0244	CP1	1	
Methylene chloride	0.350	2.00	J	ug/L	0.224	05/07/21 01:35	B1E0244	CP1	1	
n-Butylbenzene	< 0.500	1.00	U	ug/L	0.130	05/07/21 01:35	B1E0244	CP1	1	
n-Propylbenzene	< 0.200	0.500	U	ug/L	0.0630	05/07/21 01:35	B1E0244	CP1	1	
o-Xylene	< 0.200	0.500	U	ug/L	0.0416	05/07/21 01:35	B1E0244	CP1	1	
sec-Butylbenzene	0.0700	0.500	J	ug/L	0.0598	05/07/21 01:35	B1E0244	CP1	1	
Styrene	0.0500	0.500	J	ug/L	0.0453	05/07/21 01:35	B1E0244	CP1	1	
tert-Butylbenzene	< 0.200	0.500	U	ug/L	0.0453	05/07/21 01:35	B1E0244	CP1	1	
Tetrachloroethene	< 0.200	0.500	U	ug/L	0.178	05/07/21 01:35	B1E0244	CP1	1	
Toluene	< 0.200	0.500	U	ug/L	0.0572	05/07/21 01:35	B1E0244	CP1	1	
trans-1,2-Dichloroethene	< 0.200	0.500	U	ug/L	0.0855	05/07/21 01:35	B1E0244	CP1	1	
trans-1,3-Dichloropropene	< 0.200	0.500	U	ug/L	0.0587	05/07/21 01:35	B1E0244	CP1	1	
Trichloroethene	< 0.200	0.500	U	ug/L	0.0781	05/07/21 01:35	B1E0244	CP1	1	
Trichlorofluoromethane	< 0.200	0.500	U	ug/L	0.0505	05/07/21 01:35	B1E0244	CP1	1	
Vinyl chloride	< 0.500	1.00	U	ug/L	0.129	05/07/21 01:35	B1E0244	CP1	1	
Xylenes, Total	< 0.600	1.50	U	ug/L	0.130	05/07/21 01:35	B1E0244	CP1	1	
<hr/>										
Surrogate: Dibromofluoromethane					Recovery: 104%	Limits: 89-119	05/07/21 01:35	B1E0244	CP1	1
Surrogate: 1,2-Dichloroethane-d4					Recovery: 107%	Limits: 86-122	05/07/21 01:35	B1E0244	CP1	1
Surrogate: Fluorobenzene					Recovery: 101%	Limits: 90-105	05/07/21 01:35	B1E0244	CP1	1
Surrogate: Toluene-d8					Recovery: 99%	Limits: 89-108	05/07/21 01:35	B1E0244	CP1	1
Surrogate: 4-Bromofluorobenzene					Recovery: 105%	Limits: 90-124	05/07/21 01:35	B1E0244	CP1	1
Surrogate: 1,2-Dichlorobenzene-d4					Recovery: 104%	Limits: 90-118	05/07/21 01:35	B1E0244	CP1	1

Subcontracted Analyses

Method: SW8260-SIM Modified / SW5030

1,4-Dioxane	< 0.200	0.500	U	ug/L	0.0625	05/03/21 15:03	B1E0042	CP1	1	
<hr/>										
Surrogate: Toluene-d8					Recovery: 88%	Limits: 80-120	05/03/21 15:03	B1E0042	CP1	1

Dates Report

Client: Geosyntec Consultants

Report Date: 05/18/2021

Project: Milw Die Cast

Work Order: 21D1010

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
21D1010-01	MW-1	04/28/21	Groundwater	Carbon, Organic Total (TOC)		05/03/21 15:30	05/03/21 19:14	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 18:19	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/07/21 11:05	05/07/21 15:39	B1E0284	S1E0118
				Volatile Organic Compounds Low Level		05/07/21 11:05	05/07/21 17:55		
21D1010-02	MW-2	04/28/21		Carbon, Organic Total (TOC)		05/03/21 15:30	05/03/21 19:33	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 18:47	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 03:30	B1E0244	S1E0086
21D1010-03	MW-2 DUP			Carbon, Organic Total (TOC)		05/03/21 15:30	05/03/21 19:59	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 19:16	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 03:59	B1E0244	S1E0086
21D1010-04	MW-3	04/27/21		Carbon, Organic Total (TOC)		05/03/21 15:30	05/03/21 20:23	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 15:31	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 04:28	B1E0244	S1E0086
21D1010-05	MW-4	04/28/21		Carbon, Organic Total (TOC)		05/03/21 15:30	05/03/21 23:19	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 19:44	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 04:57	B1E0244	S1E0086
21D1010-06	MW-5	04/27/21		Carbon, Organic Total (TOC)		05/03/21 15:30	05/03/21 23:36	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 20:12	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 05:25	B1E0244	S1E0086
21D1010-07	MW-6	04/28/21		Carbon, Organic Total (TOC)		05/03/21 15:30	05/03/21 23:56	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/04/21 01:49	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 05:54	B1E0244	S1E0086
21D1010-08	MW-6 DUP			Carbon, Organic Total (TOC)		05/03/21 15:30	05/04/21 00:13	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/04/21 02:17	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 06:23	B1E0244	S1E0086
21D1010-09	MW-7	04/28/21		Carbon, Organic Total (TOC)		05/03/21 15:30	05/04/21 00:48	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 20:40	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/07/21 11:05	05/07/21 14:42	B1E0284	S1E0118
				Volatile Organic Compounds Low Level		05/07/21 11:05	05/07/21 17:00		
21D1010-10	MW-8	04/27/21		Carbon, Organic Total (TOC)		05/03/21 15:30	05/04/21 01:12	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 21:08	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 06:52	B1E0244	S1E0086
21D1010-11	MW-9	04/27/21		Carbon, Organic Total (TOC)		05/03/21 15:30	05/04/21 01:33	B1E0035	S1E0012

Dates Report

(Continued)

Client: Geosyntec Consultants**Report Date:** 05/18/2021**Project:** Milw Die Cast**Work Order:** 21D1010

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
21D1010-11	MW-9	04/27/21	Groundwater	Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 21:36	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 07:20	B1E0244	S1E0086
21D1010-12	MW-10	04/27/21		Carbon, Organic Total (TOC)		05/03/21 15:30	05/04/21 01:56	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 22:04	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 07:49	B1E0244	S1E0086
21D1010-13	MW-11	04/27/21		Carbon, Organic Total (TOC)		05/03/21 15:30	05/04/21 02:16	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 22:32	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 08:18	B1E0244	S1E0086
21D1010-14	MW-12	04/27/21		Carbon, Organic Total (TOC)		05/03/21 15:30	05/04/21 02:34	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 23:00	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 08:47	B1E0244	S1E0086
21D1010-15	MW-13	04/27/21		Carbon, Organic Total (TOC)		05/03/21 15:30	05/04/21 04:36	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 23:29	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 09:15	B1E0244	S1E0086
21D1010-16	MW-14	04/28/21		Carbon, Organic Total (TOC)		05/03/21 15:30	05/04/21 04:55	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 23:57	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 09:44	B1E0244	S1E0086
21D1010-17	PZ-1	04/28/21		Carbon, Organic Total (TOC)		05/03/21 15:30	05/04/21 05:14	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/04/21 00:25	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/07/21 11:05	05/07/21 15:10	B1E0284	S1E0118
21D1010-18	PZ-2	04/28/21		Volatile Organic Compounds Low Level		05/07/21 11:05	05/07/21 17:29		
				Carbon, Organic Total (TOC)		05/03/21 15:30	05/04/21 05:30	B1E0035	S1E0012
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/04/21 00:53	B1E0042	S1E0010
21D1010-19	PZ-10	04/26/21		Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 10:13	B1E0244	S1E0086
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/04/21 01:21	B1E0042	S1E0010
				Carbon, Organic Total (TOC)		05/04/21 14:48	05/04/21 17:00	B1E0078	S1E0025
21D1010-20	TB-04282021	04/26/21	Water	Volatile Organic Compounds Low Level		05/07/21 11:05	05/07/21 14:13	B1E0284	S1E0118
				Volatile Organic Compounds by GC/MS-SIM		05/03/21 05:42	05/03/21 15:03	B1E0042	S1E0010
				Volatile Organic Compounds Low Level		05/06/21 15:00	05/07/21 01:35	B1E0244	S1E0086

Quality Control

Client: Geosyntec DoD
Project: Milw Die Cast

Report Date: 05/18/2021
Matrix: Water

Work Order: 21D1010

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B1E0035											
Blank (B1E0035-BLK1) <i>Prepared: 05/03/2021 15:30 Analyzed: 05/03/2021 15:45</i>											
Organic Carbon, Total	<0.800	1.00	mg/L							1	
Blank (B1E0035-BLK2) <i>Prepared: 05/03/2021 15:30 Analyzed: 05/03/2021 16:05</i>											
Organic Carbon, Total	<0.800	1.00	mg/L							1	
Blank (B1E0035-BLK3) <i>Prepared: 05/03/2021 15:30 Analyzed: 05/03/2021 21:34</i>											
Organic Carbon, Total	<0.800	1.00	mg/L							1	
Blank (B1E0035-BLK4) <i>Prepared: 05/03/2021 15:30 Analyzed: 05/03/2021 21:54</i>											
Organic Carbon, Total	<0.800	1.00	mg/L							1	
Blank (B1E0035-BLK5) <i>Prepared: 05/03/2021 15:30 Analyzed: 05/04/2021 02:51</i>											
Organic Carbon, Total	<0.800	1.00	mg/L							1	
Blank (B1E0035-BLK6) <i>Prepared: 05/03/2021 15:30 Analyzed: 05/04/2021 03:11</i>											
Organic Carbon, Total	<0.800	1.00	mg/L							1	
Blank (B1E0035-BLK7) <i>Prepared: 05/03/2021 15:30 Analyzed: 05/04/2021 05:46</i>											
Organic Carbon, Total	<0.800	1.00	mg/L							1	
Blank (B1E0035-BLK8) <i>Prepared: 05/03/2021 15:30 Analyzed: 05/04/2021 06:05</i>											
Organic Carbon, Total	<0.800	1.00	mg/L							1	
LCS (B1E0035-BS1) <i>Prepared: 05/03/2021 15:30 Analyzed: 05/03/2021 16:57</i>											
Organic Carbon, Total	9.18	1.00	mg/L	10.00		91.8	90-110			1	
LCS (B1E0035-BS2) <i>Prepared: 05/03/2021 15:30 Analyzed: 05/03/2021 17:29</i>											
Organic Carbon, Total	23.1	1.00	mg/L	25.00		92.4	90-110			1	
MRL Check (B1E0035-MRL1) <i>Prepared: 05/03/2021 15:30 Analyzed: 05/03/2021 16:28</i>											
Organic Carbon, Total	1.08	1.00	mg/L	1.000		108	50-150			1	
Matrix Spike (B1E0035-MS1) Source: 21E0164-02 <i>Prepared: 05/03/2021 15:30 Analyzed: 05/03/2021 18:33</i>											
Organic Carbon, Total	56.9	5.00	mg/L	50.00	7.12	99.6	80-120			5	
Matrix Spike (B1E0035-MS2) Source: 21D1010-04 <i>Prepared: 05/03/2021 15:30 Analyzed: 05/03/2021 20:44</i>											
Organic Carbon, Total	12.1	1.00	mg/L	10.00	2.48	96.0	80-120			1	

Quality Control

(Continued)

Client: Geosyntec DoD**Report Date:** 05/18/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21D1010**Wet Chemistry**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B1E0035 (Continued)											
Matrix Spike Dup (B1E0035-MSD1)			Source: 21E0164-02		<i>Prepared: 05/03/2021 15:30</i>		<i>Analyzed: 05/03/2021 18:53</i>				
Organic Carbon, Total	53.5	5.00	mg/L	50.00	7.12	92.8	80-120	6.16	15		5
Matrix Spike Dup (B1E0035-MSD2)			Source: 21D1010-04		<i>Prepared: 05/03/2021 15:30</i>		<i>Analyzed: 05/03/2021 21:15</i>				
Organic Carbon, Total	12.3	1.00	mg/L	10.00	2.48	98.1	80-120	1.72	15		1
Batch: B1E0078											
Blank (B1E0078-BLK1)					<i>Prepared: 05/04/2021 14:48</i>		<i>Analyzed: 05/04/2021 15:05</i>				
Organic Carbon, Total	<0.800	1.00	mg/L								1
Blank (B1E0078-BLK2)					<i>Prepared: 05/04/2021 14:48</i>		<i>Analyzed: 05/04/2021 15:28</i>				
Organic Carbon, Total	<0.800	1.00	mg/L								1
Blank (B1E0078-BLK3)					<i>Prepared: 05/04/2021 14:48</i>		<i>Analyzed: 05/04/2021 20:45</i>				
Organic Carbon, Total	<0.800	1.00	mg/L								1
Blank (B1E0078-BLK4)					<i>Prepared: 05/04/2021 14:48</i>		<i>Analyzed: 05/04/2021 21:05</i>				
Organic Carbon, Total	<0.800	1.00	mg/L								1
LCS (B1E0078-BS1)					<i>Prepared: 05/04/2021 14:48</i>		<i>Analyzed: 05/04/2021 16:16</i>				
Organic Carbon, Total	9.92	1.00	mg/L	10.00		99.2	90-110				1
LCS (B1E0078-BS2)					<i>Prepared: 05/04/2021 14:48</i>		<i>Analyzed: 05/04/2021 16:38</i>				
Organic Carbon, Total	24.7	1.00	mg/L	25.00		99.0	90-110				1
MRL Check (B1E0078-MRL1)					<i>Prepared: 05/04/2021 14:48</i>		<i>Analyzed: 05/04/2021 15:51</i>				
Organic Carbon, Total	1.35	1.00	mg/L	1.000		135	50-150				1
Matrix Spike (B1E0078-MS1)			Source: 21E0163-03		<i>Prepared: 05/04/2021 14:48</i>		<i>Analyzed: 05/04/2021 18:34</i>				
Organic Carbon, Total	54.7	5.00	mg/L	50.00	4.86	99.7	80-120				5
Matrix Spike Dup (B1E0078-MSD1)			Source: 21E0163-03		<i>Prepared: 05/04/2021 14:48</i>		<i>Analyzed: 05/04/2021 18:59</i>				
Organic Carbon, Total	56.4	5.00	mg/L	50.00	4.86	103	80-120	3.06	15		5

Quality Control

(Continued)

Client: Geosyntec DoD**Report Date:** 05/18/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21D1010**Volatile Organic Compounds by GC/MS**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1E0244 - SW5030**Blank (B1E0244-BLK1)**

Prepared: 05/06/2021 15:00 Analyzed: 05/07/2021 01:09

1,1,1,2-Tetrachloroethane	<0.200	0.500	ug/L							U	1
1,1,1-Trichloroethane	<0.200	0.500	ug/L							U	1
1,1,2,2-Tetrachloroethane	<0.200	0.500	ug/L							U	1
1,1,2-Trichloroethane	<0.200	0.500	ug/L							U	1
1,1-Dichloroethane	<0.200	0.500	ug/L							U	1
1,1-Dichloroethene	<0.200	0.500	ug/L							U	1
1,1-Dichloropropene	<0.200	0.500	ug/L							U	1
1,2,3-Trichlorobenzene	0.110	0.500	ug/L							J	1
1,2,3-Trichloropropane	<0.200	0.500	ug/L							U	1
1,2,4-Trimethylbenzene	<0.200	0.500	ug/L							U	1
1,2-Dibromo-3-chloropropane	<0.500	1.00	ug/L							U	1
1,2-Dibromoethane	<0.200	0.500	ug/L							U	1
1,2-Dichloroethane	<0.200	0.500	ug/L							U	1
1,2-Dichloropropane	<0.200	0.500	ug/L							U	1
1,3,5-Trimethylbenzene	<0.200	0.500	ug/L							U	1
1,3-Dichloropropane	<0.200	0.500	ug/L							U	1
2,2-Dichloropropane	<0.200	0.500	ug/L							U	1
2-Butanone	<0.700	1.75	ug/L							U	1
2-Chlorotoluene	<0.200	0.500	ug/L							U	1
2-Hexanone	<0.700	1.75	ug/L							U	1
4-Isopropyltoluene	0.0800	0.500	ug/L							J	1
4-Methyl-2-pentanone	<0.700	1.75	ug/L							U	1
Acetone	<1.00	2.00	ug/L							U	1
Benzene	<0.200	0.500	ug/L							U	1
Bromobenzene	<0.200	0.500	ug/L							U	1
Bromochloromethane	<0.200	0.500	ug/L							U	1
Bromodichloromethane	<0.200	0.500	ug/L							U	1
Bromoform	<0.200	0.500	ug/L							U	1
Bromomethane	<0.500	1.00	ug/L							U	1
Carbon disulfide	<0.500	1.00	ug/L							U	1
Carbon tetrachloride	<0.200	0.500	ug/L							U	1
Chlorobenzene	<0.200	0.500	ug/L							U	1
Chloroethane	<0.200	0.500	ug/L							U	1
Chloroform	<0.200	0.500	ug/L							U	1
Chloromethane	<0.500	1.00	ug/L							U	1
cis-1,2-Dichloroethene	<0.200	0.500	ug/L							U	1
cis-1,3-Dichloropropene	<0.200	0.500	ug/L							U	1
Cyclohexane	<0.200	0.500	ug/L							U	1
Dibromochloromethane	<0.200	0.500	ug/L							U	1
Dibromomethane	<0.200	0.500	ug/L							U	1
Dichlorodifluoromethane	<0.500	1.00	ug/L							U	1
Ethylbenzene	0.0300	0.500	ug/L							J	1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast

Report Date: 05/18/2021
Matrix: Water

Work Order: 21D1010**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1E0244 - SW5030 (Continued)**Blank (B1E0244-BLK1) (Continued)**

Prepared: 05/06/2021 15:00 Analyzed: 05/07/2021 01:09

Isopropylbenzene	<0.200	0.500	ug/L							U	1
m,p-Xylene	<0.400	1.00	ug/L							U	1
Methyl tert-butyl ether	<0.200	0.500	ug/L							U	1
Methylene chloride	0.280	2.00	ug/L							J	1
n-Butylbenzene	<0.500	1.00	ug/L							U	1
n-Propylbenzene	<0.200	0.500	ug/L							U	1
o-Xylene	<0.200	0.500	ug/L							U	1
sec-Butylbenzene	0.0900	0.500	ug/L							J	1
Styrene	0.0500	0.500	ug/L							J	1
tert-Butylbenzene	<0.200	0.500	ug/L							U	1
Tetrachloroethene	<0.200	0.500	ug/L							U	1
Toluene	<0.200	0.500	ug/L							U	1
trans-1,2-Dichloroethene	<0.200	0.500	ug/L							U	1
trans-1,3-Dichloropropene	<0.200	0.500	ug/L							U	1
Trichloroethene	<0.200	0.500	ug/L							U	1
Trichlorofluoromethane	<0.200	0.500	ug/L							U	1
Vinyl chloride	<0.500	1.00	ug/L							U	1
Xylenes, Total	<0.600	1.50	ug/L							U	1
<hr/>											
Surrogate: Dibromofluoromethane	21.4		ug/L	20.00		107	89-119				1
Surrogate: 1,2-Dichloroethane-d4	21.5		ug/L	20.00		108	86-122				1
Surrogate: Fluorobenzene	20.4		ug/L	20.00		102	90-105				1
Surrogate: Toluene-d8	19.9		ug/L	20.00		100	89-108				1
Surrogate: 4-Bromofluorobenzene	10.7		ug/L	10.00		107	90-124				1
Surrogate: 1,2-Dichlorobenzene-d4	20.8		ug/L	20.00		104	90-118				1

LCS (B1E0244-BS1)

Prepared: 05/06/2021 15:00 Analyzed: 05/06/2021 22:59

1,1,1,2-Tetrachloroethane	13.3	0.500	ug/L	15.00		89	84-122				1
1,1,1-Trichloroethane	15.4	0.500	ug/L	15.00		103	74-131				1
1,1,2,2-Tetrachloroethane	14.1	0.500	ug/L	15.00		94	71-121				1
1,1,2-Trichloroethane	14.2	0.500	ug/L	15.00		94	83-118				1
1,1-Dichloroethane	15.5	0.500	ug/L	15.00		103	77-125				1
1,1-Dichloroethene	15.6	0.500	ug/L	15.00		104	71-131				1
1,1-Dichloropropene	15.4	0.500	ug/L	15.00		102	79-125				1
1,2,3-Trichlorobenzene	13.1	0.500	ug/L	15.00		88	69-129				1
1,2,3-Trichloropropane	14.6	0.500	ug/L	15.00		97	73-122				1
1,2,4-Trimethylbenzene	13.9	0.500	ug/L	15.00		93	76-124				1
1,2-Dibromo-3-chloropropane	13.5	1.00	ug/L	15.00		90	72-124				1
1,2-Dibromoethane	13.6	0.500	ug/L	15.00		91	77-121				1
1,2-Dichloroethane	15.3	0.500	ug/L	15.00		102	73-128				1
1,2-Dichloropropane	15.1	0.500	ug/L	15.00		101	78-122				1
1,3,5-Trimethylbenzene	13.9	0.500	ug/L	15.00		93	75-124				1
1,3-Dichloropropane	13.8	0.500	ug/L	15.00		92	82-108				1

Quality Control

(Continued)

Client: Geosyntec DoD**Report Date:** 05/18/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21D1010**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1E0244 - SW5030 (Continued)**LCS (B1E0244-BS1) (Continued)**

Prepared: 05/06/2021 15:00 Analyzed: 05/06/2021 22:59

2,2-Dichloropropane	13.6	0.500	ug/L	15.00		91	60-139				1
2-Butanone	55.4	1.75	ug/L	52.50		105	71-119				1
2-Chlorotoluene	13.7	0.500	ug/L	15.00		91	79-122				1
2-Hexanone	48.7	1.75	ug/L	52.50		93	57-139				1
4-Isopropyltoluene	13.7	0.500	ug/L	15.00		91	77-127				1
4-Methyl-2-pentanone	53.0	1.75	ug/L	52.50		101	67-130				1
Acetone	52.6	2.00	ug/L	52.50		100	39-160				1
Benzene	14.7	0.500	ug/L	15.00		98	87-107				1
Bromobenzene	14.2	0.500	ug/L	15.00		95	80-113				1
Bromochloromethane	14.6	0.500	ug/L	15.00		98	78-123				1
Bromodichloromethane	14.4	0.500	ug/L	15.00		96	84-115				1
Bromoform	13.4	0.500	ug/L	15.00		89	66-130				1
Bromomethane	14.1	1.00	ug/L	15.00		94	86-128				1
Carbon disulfide	15.3	1.00	ug/L	15.00		102	80-133				1
Carbon tetrachloride	13.8	0.500	ug/L	15.00		92	88-116				1
Chlorobenzene	13.8	0.500	ug/L	15.00		92	82-118				1
Chloroethane	15.2	0.500	ug/L	15.00		101	60-138				1
Chloroform	15.0	0.500	ug/L	15.00		100	79-124				1
Chloromethane	18.1	1.00	ug/L	15.00		120	50-139				1
cis-1,2-Dichloroethene	15.1	0.500	ug/L	15.00		101	78-123				1
cis-1,3-Dichloropropene	14.2	0.500	ug/L	15.00		95	75-124				1
Cyclohexane	16.2	0.500	ug/L	15.00		108	71-130				1
Dibromochloromethane	13.5	0.500	ug/L	15.00		90	83-111				1
Dibromomethane	14.5	0.500	ug/L	15.00		97	79-117				1
Dichlorodifluoromethane	16.9	1.00	ug/L	15.00		113	66-150				1
Ethylbenzene	13.8	0.500	ug/L	15.00		92	79-121				1
Isopropylbenzene	14.1	0.500	ug/L	15.00		94	72-131				1
m,p-Xylene	27.2	1.00	ug/L	30.00		91	80-121				1
Methyl tert-butyl ether	15.5	0.500	ug/L	15.00		103	71-124				1
Methylene chloride	17.4	2.00	ug/L	15.00		116	74-124				1
n-Butylbenzene	13.7	1.00	ug/L	15.00		91	75-128				1
n-Propylbenzene	13.6	0.500	ug/L	15.00		91	76-126				1
o-Xylene	13.8	0.500	ug/L	15.00		92	78-122				1
sec-Butylbenzene	13.7	0.500	ug/L	15.00		91	77-126				1
Styrene	13.7	0.500	ug/L	15.00		91	78-123				1
tert-Butylbenzene	14.4	0.500	ug/L	15.00		96	78-124				1
Tetrachloroethene	12.9	0.500	ug/L	15.00		86	74-129				1
Toluene	13.8	0.500	ug/L	15.00		92	80-117				1
trans-1,2-Dichloroethene	15.0	0.500	ug/L	15.00		100	75-124				1
trans-1,3-Dichloropropene	14.0	0.500	ug/L	15.00		93	73-127				1
Trichloroethene	14.6	0.500	ug/L	15.00		98	84-113				1
Trichlorofluoromethane	14.8	0.500	ug/L	15.00		99	87-130				1

Quality Control

(Continued)

Client: Geosyntec DoD

Report Date: 05/18/2021

Project: Milw Die Cast

Matrix: Water

Work Order: 21D1010

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1E0244 - SW5030 (Continued)**LCS (B1E0244-BS1) (Continued)**

Prepared: 05/06/2021 15:00 Analyzed: 05/06/2021 22:59

Vinyl chloride	16.6	1.00	ug/L	15.00		111	58-137				1
Xylenes, Total	41.0	1.50	ug/L	45.00		91	79-121				1
Surrogate: Dibromofluoromethane	20.9		ug/L	20.00		105	89-119				1
Surrogate: 1,2-Dichloroethane-d4	20.8		ug/L	20.00		104	86-122				1
Surrogate: Fluorobenzene	20.2		ug/L	20.00		101	90-105				1
Surrogate: Toluene-d8	19.7		ug/L	20.00		99	89-108				1
Surrogate: 4-Bromofluorobenzene	9.78		ug/L	10.00		98	90-124				1
Surrogate: 1,2-Dichlorobenzene-d4	19.7		ug/L	20.00		98	90-118				1

Matrix Spike (B1E0244-MS1)

Source: 21D1010-04

Prepared: 05/06/2021 15:00 Analyzed: 05/06/2021 23:51

1,1,1,2-Tetrachloroethane	13.3	0.500	ug/L	15.00	ND	88	70-130				1
1,1,1-Trichloroethane	14.2	0.500	ug/L	15.00	ND	94	70-130				1
1,1,2,2-Tetrachloroethane	14.9	0.500	ug/L	15.00	ND	99	70-130				1
1,1,2-Trichloroethane	13.4	0.500	ug/L	15.00	ND	89	70-130				1
1,1-Dichloroethane	14.6	0.500	ug/L	15.00	ND	98	70-130				1
1,1-Dichloroethene	14.6	0.500	ug/L	15.00	ND	97	70-130				1
1,1-Dichloropropene	14.6	0.500	ug/L	15.00	ND	97	70-130				1
1,2,3-Trichlorobenzene	13.5	0.500	ug/L	15.00	ND	90	70-130				1
1,2,3-Trichloropropane	15.5	0.500	ug/L	15.00	ND	103	70-130				1
1,2,4-Trimethylbenzene	14.4	0.500	ug/L	15.00	0.200	95	70-130				1
1,2-Dibromo-3-chloropropane	14.3	1.00	ug/L	15.00	ND	95	70-130				1
1,2-Dibromoethane	13.5	0.500	ug/L	15.00	ND	90	70-130				1
1,2-Dichloroethane	14.4	0.500	ug/L	15.00	ND	96	70-130				1
1,2-Dichloropropane	14.3	0.500	ug/L	15.00	ND	95	70-130				1
1,3,5-Trimethylbenzene	14.2	0.500	ug/L	15.00	ND	95	70-130				1
1,3-Dichloropropane	13.7	0.500	ug/L	15.00	ND	92	70-130				1
2,2-Dichloropropane	13.6	0.500	ug/L	15.00	ND	91	70-130				1
2-Butanone	48.0	1.75	ug/L	52.50	ND	91	70-130				1
2-Chlorotoluene	14.4	0.500	ug/L	15.00	ND	96	70-130				1
2-Hexanone	48.6	1.75	ug/L	52.50	ND	93	70-130				1
4-Isopropyltoluene	14.0	0.500	ug/L	15.00	0.150	92	70-130				1
4-Methyl-2-pentanone	51.1	1.75	ug/L	52.50	ND	97	70-130				1
Acetone	46.8	2.00	ug/L	52.50	ND	89	70-130				1
Benzene	14.3	0.500	ug/L	15.00	ND	95	70-130				1
Bromobenzene	14.4	0.500	ug/L	15.00	ND	96	70-130				1
Bromochloromethane	13.8	0.500	ug/L	15.00	ND	92	70-130				1
Bromodichloromethane	14.0	0.500	ug/L	15.00	ND	94	70-130				1
Bromoform	13.1	0.500	ug/L	15.00	ND	87	70-130				1
Bromomethane	13.1	1.00	ug/L	15.00	ND	88	70-130				1
Carbon disulfide	14.9	1.00	ug/L	15.00	2.25	84	70-130				1
Carbon tetrachloride	13.1	0.500	ug/L	15.00	ND	88	70-130				1
Chlorobenzene	13.7	0.500	ug/L	15.00	ND	91	70-130				1

Quality Control

(Continued)

Client: Geosyntec DoD

Report Date: 05/18/2021

Project: Milw Die Cast

Matrix: Water

Work Order: 21D1010

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1E0244 - SW5030 (Continued)**Matrix Spike (B1E0244-MS1) (Continued)**

Source: 21D1010-04

Prepared: 05/06/2021 15:00 Analyzed: 05/06/2021 23:51

Chloroethane	12.5	0.500	ug/L	15.00	ND	84	70-130				1
Chloroform	14.3	0.500	ug/L	15.00	ND	95	70-130				1
Chloromethane	17.3	1.00	ug/L	15.00	ND	116	70-130				1
cis-1,2-Dichloroethene	14.7	0.500	ug/L	15.00	ND	98	70-130				1
cis-1,3-Dichloropropene	13.9	0.500	ug/L	15.00	ND	93	70-130				1
Cyclohexane	15.1	0.500	ug/L	15.00	ND	101	70-130				1
Dibromochloromethane	13.2	0.500	ug/L	15.00	ND	88	70-130				1
Dibromomethane	13.2	0.500	ug/L	15.00	ND	88	70-130				1
Dichlorodifluoromethane	14.8	1.00	ug/L	15.00	ND	98	70-130				1
Ethylbenzene	13.6	0.500	ug/L	15.00	0.100	90	70-130				1
Isopropylbenzene	14.7	0.500	ug/L	15.00	ND	98	70-130				1
m,p-Xylene	26.8	1.00	ug/L	30.00	0.400	88	70-130				1
Methyl tert-butyl ether	14.6	0.500	ug/L	15.00	ND	97	70-130				1
Methylene chloride	15.5	2.00	ug/L	15.00	4.25	75	70-130				1
n-Butylbenzene	14.0	1.00	ug/L	15.00	ND	94	70-130				1
n-Propylbenzene	14.4	0.500	ug/L	15.00	ND	96	70-130				1
o-Xylene	14.4	0.500	ug/L	15.00	0.250	94	70-130				1
sec-Butylbenzene	13.8	0.500	ug/L	15.00	0.250	90	70-130				1
Styrene	13.2	0.500	ug/L	15.00	0.200	87	70-130				1
tert-Butylbenzene	15.1	0.500	ug/L	15.00	ND	100	70-130				1
Tetrachloroethene	12.5	0.500	ug/L	15.00	ND	83	70-130				1
Toluene	13.5	0.500	ug/L	15.00	0.200	88	70-130				1
trans-1,2-Dichloroethene	14.4	0.500	ug/L	15.00	ND	96	70-130				1
trans-1,3-Dichloropropene	13.3	0.500	ug/L	15.00	ND	89	70-130				1
Trichloroethene	14.0	0.500	ug/L	15.00	ND	93	70-130				1
Trichlorofluoromethane	15.1	0.500	ug/L	15.00	ND	101	70-130				1
Vinyl chloride	15.1	1.00	ug/L	15.00	ND	100	70-130				1
Xylenes, Total	41.2	1.50	ug/L	45.00	0.650	90	70-130				1
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Surrogate: Dibromofluoromethane	21.2		ug/L	20.00		106	89-119				1
Surrogate: 1,2-Dichloroethane-d4	20.7		ug/L	20.00		103	86-122				1
Surrogate: Fluorobenzene	19.8		ug/L	20.00		99	90-105				1
Surrogate: Toluene-d8	19.9		ug/L	20.00		99	89-108				1
Surrogate: 4-Bromofluorobenzene	10.5		ug/L	10.00		105	90-124				1
Surrogate: 1,2-Dichlorobenzene-d4	20.5		ug/L	20.00		103	90-118				1

Matrix Spike Dup (B1E0244-MSD1)

Source: 21D1010-04

Prepared: 05/06/2021 15:00 Analyzed: 05/07/2021 00:17

1,1,1,2-Tetrachloroethane	13.5	0.500	ug/L	15.00	ND	90	70-130	2	20		1
1,1,1-Trichloroethane	15.0	0.500	ug/L	15.00	ND	100	70-130	6	20		1
1,1,2,2-Tetrachloroethane	14.4	0.500	ug/L	15.00	ND	96	70-130	3	20		1
1,1,2-Trichloroethane	14.3	0.500	ug/L	15.00	ND	95	70-130	6	20		1
1,1-Dichloroethane	14.8	0.500	ug/L	15.00	ND	99	70-130	1	20		1
1,1-Dichloroethene	15.9	0.500	ug/L	15.00	ND	106	70-130	9	20		1

Quality Control

(Continued)

Client: Geosyntec DoD

Report Date: 05/18/2021

Project: Milw Die Cast

Matrix: Water

Work Order: 21D1010

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1E0244 - SW5030 (Continued)**Matrix Spike Dup (B1E0244-MSD1)** (Continued)**Source: 21D1010-04**

Prepared: 05/06/2021 15:00 Analyzed: 05/07/2021 00:17

1,1-Dichloropropene	15.3	0.500	ug/L	15.00	ND	102	70-130	5	20		1
1,2,3-Trichlorobenzene	13.4	0.500	ug/L	15.00	ND	89	70-130	1	20		1
1,2,3-Trichloropropane	14.8	0.500	ug/L	15.00	ND	98	70-130	5	20		1
1,2,4-Trimethylbenzene	14.8	0.500	ug/L	15.00	0.200	98	70-130	3	20		1
1,2-Dibromo-3-chloropropane	13.6	1.00	ug/L	15.00	ND	90	70-130	5	20		1
1,2-Dibromoethane	13.5	0.500	ug/L	15.00	ND	90	70-130	0	20		1
1,2-Dichloroethane	15.1	0.500	ug/L	15.00	ND	101	70-130	5	20		1
1,2-Dichloropropane	14.9	0.500	ug/L	15.00	ND	99	70-130	4	20		1
1,3,5-Trimethylbenzene	14.7	0.500	ug/L	15.00	ND	98	70-130	3	20		1
1,3-Dichloropropane	14.6	0.500	ug/L	15.00	ND	98	70-130	6	20		1
2,2-Dichloropropane	14.0	0.500	ug/L	15.00	ND	94	70-130	3	20		1
2-Butanone	49.8	1.75	ug/L	52.50	ND	95	70-130	4	20		1
2-Chlorotoluene	14.7	0.500	ug/L	15.00	ND	98	70-130	2	20		1
2-Hexanone	49.3	1.75	ug/L	52.50	ND	94	70-130	1	20		1
4-Isopropyltoluene	14.4	0.500	ug/L	15.00	0.150	95	70-130	3	20		1
4-Methyl-2-pentanone	52.1	1.75	ug/L	52.50	ND	99	70-130	2	20		1
Acetone	48.2	2.00	ug/L	52.50	ND	92	70-130	3	20		1
Benzene	14.8	0.500	ug/L	15.00	ND	99	70-130	4	20		1
Bromobenzene	14.8	0.500	ug/L	15.00	ND	98	70-130	2	20		1
Bromochloromethane	14.7	0.500	ug/L	15.00	ND	98	70-130	6	20		1
Bromodichloromethane	14.1	0.500	ug/L	15.00	ND	94	70-130	0.8	20		1
Bromoform	13.1	0.500	ug/L	15.00	ND	87	70-130	0.3	20		1
Bromomethane	13.9	1.00	ug/L	15.00	ND	93	70-130	6	20		1
Carbon disulfide	15.9	1.00	ug/L	15.00	2.25	91	70-130	7	20		1
Carbon tetrachloride	13.7	0.500	ug/L	15.00	ND	91	70-130	4	20		1
Chlorobenzene	14.3	0.500	ug/L	15.00	ND	95	70-130	4	20		1
Chloroethane	13.8	0.500	ug/L	15.00	ND	92	70-130	10	20		1
Chloroform	14.8	0.500	ug/L	15.00	ND	99	70-130	4	20		1
Chloromethane	19.8	1.00	ug/L	15.00	ND	132	70-130	13	20	S	1
cis-1,2-Dichloroethene	15.5	0.500	ug/L	15.00	ND	103	70-130	5	20		1
cis-1,3-Dichloropropene	14.3	0.500	ug/L	15.00	ND	95	70-130	3	20		1
Cyclohexane	15.0	0.500	ug/L	15.00	ND	100	70-130	0.9	20		1
Dibromochloromethane	13.4	0.500	ug/L	15.00	ND	89	70-130	1	20		1
Dibromomethane	13.9	0.500	ug/L	15.00	ND	93	70-130	5	20		1
Dichlorodifluoromethane	15.6	1.00	ug/L	15.00	ND	104	70-130	5	20		1
Ethylbenzene	14.2	0.500	ug/L	15.00	0.100	94	70-130	5	20		1
Isopropylbenzene	15.0	0.500	ug/L	15.00	ND	100	70-130	1	20		1
m,p-Xylene	28.6	1.00	ug/L	30.00	0.400	94	70-130	6	20		1
Methyl tert-butyl ether	15.3	0.500	ug/L	15.00	ND	102	70-130	5	20		1
Methylene chloride	16.4	2.00	ug/L	15.00	4.25	81	70-130	6	20		1
n-Butylbenzene	14.4	1.00	ug/L	15.00	ND	96	70-130	3	20		1
n-Propylbenzene	14.8	0.500	ug/L	15.00	ND	98	70-130	2	20		1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast

Report Date: 05/18/2021
Matrix: Water

Work Order: 21D1010**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1E0244 - SW5030 (Continued)**Matrix Spike Dup (B1E0244-MSD1)** (Continued)**Source: 21D1010-04**

Prepared: 05/06/2021 15:00 Analyzed: 05/07/2021 00:17

o-Xylene	14.7	0.500	ug/L	15.00	0.250	97	70-130	2	20		1
sec-Butylbenzene	14.4	0.500	ug/L	15.00	0.250	94	70-130	4	20		1
Styrene	14.2	0.500	ug/L	15.00	0.200	93	70-130	7	20		1
tert-Butylbenzene	15.4	0.500	ug/L	15.00	ND	103	70-130	2	20		1
Tetrachloroethene	13.1	0.500	ug/L	15.00	ND	87	70-130	5	20		1
Toluene	14.1	0.500	ug/L	15.00	0.200	93	70-130	5	20		1
trans-1,2-Dichloroethene	15.3	0.500	ug/L	15.00	ND	102	70-130	6	20		1
trans-1,3-Dichloropropene	13.7	0.500	ug/L	15.00	ND	91	70-130	3	20		1
Trichloroethene	14.6	0.500	ug/L	15.00	ND	97	70-130	4	20		1
Trichlorofluoromethane	13.7	0.500	ug/L	15.00	ND	91	70-130	10	20		1
Vinyl chloride	16.5	1.00	ug/L	15.00	ND	110	70-130	9	20		1
Xylenes, Total	43.3	1.50	ug/L	45.00	0.650	95	70-130	5	20		1
Surrogate: Dibromofluoromethane	22.0		ug/L	20.00		110	89-119				1
Surrogate: 1,2-Dichloroethane-d4	21.0		ug/L	20.00		105	86-122				1
Surrogate: Fluorobenzene	20.0		ug/L	20.00		100	90-105				1
Surrogate: Toluene-d8	20.0		ug/L	20.00		100	89-108				1
Surrogate: 4-Bromofluorobenzene	10.4		ug/L	10.00		104	90-124				1
Surrogate: 1,2-Dichlorobenzene-d4	20.2		ug/L	20.00		101	90-118				1

Batch: B1E0284 - SW5030**Blank (B1E0284-BLK1)**

Prepared: 05/07/2021 11:05 Analyzed: 05/07/2021 13:44

1,1,1,2-Tetrachloroethane	<0.200	0.500	ug/L							U	1
1,1,1-Trichloroethane	<0.200	0.500	ug/L							U	1
1,1,2,2-Tetrachloroethane	<0.200	0.500	ug/L							U	1
1,1,2-Trichloroethane	<0.200	0.500	ug/L							U	1
1,1-Dichloroethane	<0.200	0.500	ug/L							U	1
1,1-Dichloroethene	<0.200	0.500	ug/L							U	1
1,1-Dichloropropene	<0.200	0.500	ug/L							U	1
1,2,3-Trichlorobenzene	<0.200	0.500	ug/L							U	1
1,2,3-Trichloropropane	<0.200	0.500	ug/L							U	1
1,2,4-Trimethylbenzene	<0.200	0.500	ug/L							U	1
1,2-Dibromo-3-chloropropane	<0.500	1.00	ug/L							U	1
1,2-Dibromoethane	<0.200	0.500	ug/L							U	1
1,2-Dichloroethane	<0.200	0.500	ug/L							U	1
1,2-Dichloropropane	<0.200	0.500	ug/L							U	1
1,3,5-Trimethylbenzene	<0.200	0.500	ug/L							U	1
1,3-Dichloropropane	<0.200	0.500	ug/L							U	1
2,2-Dichloropropane	<0.200	0.500	ug/L							U	1
2-Butanone	<0.700	1.75	ug/L							U	1
2-Chlorotoluene	<0.200	0.500	ug/L							U	1
2-Hexanone	<0.700	1.75	ug/L							U	1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast

Report Date: 05/18/2021
Matrix: Water

Work Order: 21D1010**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1E0284 - SW5030 (Continued)**Blank (B1E0284-BLK1)** (Continued)

Prepared: 05/07/2021 11:05 Analyzed: 05/07/2021 13:44

4-Isopropyltoluene	<0.200	0.500	ug/L							U	1
4-Methyl-2-pentanone	<0.700	1.75	ug/L							U	1
Acetone	<1.00	2.00	ug/L							U	1
Benzene	<0.200	0.500	ug/L							U	1
Bromobenzene	<0.200	0.500	ug/L							U	1
Bromochloromethane	<0.200	0.500	ug/L							U	1
Bromodichloromethane	<0.200	0.500	ug/L							U	1
Bromoform	<0.200	0.500	ug/L							U	1
Bromomethane	<0.500	1.00	ug/L							U	1
Carbon disulfide	<0.500	1.00	ug/L							U	1
Carbon tetrachloride	<0.200	0.500	ug/L							U	1
Chlorobenzene	<0.200	0.500	ug/L							U	1
Chloroethane	<0.200	0.500	ug/L							U	1
Chloroform	<0.200	0.500	ug/L							U	1
Chloromethane	<0.500	1.00	ug/L							U	1
cis-1,2-Dichloroethene	<0.200	0.500	ug/L							U	1
cis-1,3-Dichloropropene	<0.200	0.500	ug/L							U	1
Cyclohexane	<0.200	0.500	ug/L							U	1
Dibromochloromethane	<0.200	0.500	ug/L							U	1
Dibromomethane	<0.200	0.500	ug/L							U	1
Dichlorodifluoromethane	<0.500	1.00	ug/L							U	1
Ethylbenzene	<0.200	0.500	ug/L							U	1
Isopropylbenzene	<0.200	0.500	ug/L							U	1
m,p-Xylene	<0.400	1.00	ug/L							U	1
Methyl tert-butyl ether	<0.200	0.500	ug/L							U	1
Methylene chloride	<1.00	2.00	ug/L							U	1
n-Butylbenzene	<0.500	1.00	ug/L							U	1
n-Propylbenzene	<0.200	0.500	ug/L							U	1
o-Xylene	<0.200	0.500	ug/L							U	1
sec-Butylbenzene	<0.200	0.500	ug/L							U	1
Styrene	0.0500	0.500	ug/L							J	1
tert-Butylbenzene	<0.200	0.500	ug/L							U	1
Tetrachloroethene	<0.200	0.500	ug/L							U	1
Toluene	<0.200	0.500	ug/L							U	1
trans-1,2-Dichloroethene	<0.200	0.500	ug/L							U	1
trans-1,3-Dichloropropene	<0.200	0.500	ug/L							U	1
Trichloroethene	<0.200	0.500	ug/L							U	1
Trichlorofluoromethane	<0.200	0.500	ug/L							U	1
Vinyl chloride	<0.500	1.00	ug/L							U	1
Xylenes, Total	<0.600	1.50	ug/L							U	1
Surrogate: Dibromofluoromethane	20.7		ug/L	20.00		104	89-119				1
Surrogate: 1,2-Dichloroethane-d4	20.8		ug/L	20.00		104	86-122				1

Quality Control

(Continued)

Client: Geosyntec DoD

Report Date: 05/18/2021

Project: Milw Die Cast

Matrix: Water

Work Order: 21D1010

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1E0284 - SW5030 (Continued)**Blank (B1E0284-BLK1) (Continued)**

Prepared: 05/07/2021 11:05 Analyzed: 05/07/2021 13:44

Surrogate: Fluorobenzene	20.3		ug/L	20.00		102	90-105				1
Surrogate: Toluene-d8	19.8		ug/L	20.00		99	89-108				1
Surrogate: 4-Bromofluorobenzene	10.0		ug/L	10.00		100	90-124				1
Surrogate: 1,2-Dichlorobenzene-d4	20.2		ug/L	20.00		101	90-118				1

LCS (B1E0284-BS1)

Prepared: 05/07/2021 11:05 Analyzed: 05/07/2021 12:26

1,1,1,2-Tetrachloroethane	13.8	0.500	ug/L	15.00		92	84-122				1
1,1,1-Trichloroethane	16.2	0.500	ug/L	15.00		108	74-131				1
1,1,2,2-Tetrachloroethane	15.3	0.500	ug/L	15.00		102	71-121				1
1,1,2-Trichloroethane	15.5	0.500	ug/L	15.00		104	83-118				1
1,1-Dichloroethane	16.5	0.500	ug/L	15.00		110	77-125				1
1,1-Dichloroethene	17.0	0.500	ug/L	15.00		113	71-131				1
1,1-Dichloropropene	16.6	0.500	ug/L	15.00		110	79-125				1
1,2,3-Trichlorobenzene	13.7	0.500	ug/L	15.00		92	69-129				1
1,2,3-Trichloropropane	15.7	0.500	ug/L	15.00		104	73-122				1
1,2,4-Trimethylbenzene	15.0	0.500	ug/L	15.00		100	76-124				1
1,2-Dibromo-3-chloropropane	13.7	1.00	ug/L	15.00		91	72-124				1
1,2-Dibromoethane	14.3	0.500	ug/L	15.00		95	77-121				1
1,2-Dichloroethane	16.0	0.500	ug/L	15.00		107	73-128				1
1,2-Dichloropropane	16.1	0.500	ug/L	15.00		107	78-122				1
1,3,5-Trimethylbenzene	14.8	0.500	ug/L	15.00		99	75-124				1
1,3-Dichloropropane	15.3	0.500	ug/L	15.00		102	82-108				1
2,2-Dichloropropane	16.9	0.500	ug/L	15.00		112	60-139				1
2-Butanone	56.1	1.75	ug/L	52.50		107	71-119				1
2-Chlorotoluene	15.2	0.500	ug/L	15.00		101	79-122				1
2-Hexanone	52.4	1.75	ug/L	52.50		100	57-139				1
4-Isopropyltoluene	14.8	0.500	ug/L	15.00		98	77-127				1
4-Methyl-2-pentanone	54.8	1.75	ug/L	52.50		104	67-130				1
Acetone	58.4	2.00	ug/L	52.50		111	39-160				1
Benzene	16.0	0.500	ug/L	15.00		107	87-107				1
Bromobenzene	15.0	0.500	ug/L	15.00		100	80-113				1
Bromochloromethane	15.2	0.500	ug/L	15.00		101	78-123				1
Bromodichloromethane	15.1	0.500	ug/L	15.00		101	84-115				1
Bromoform	13.2	0.500	ug/L	15.00		88	66-130				1
Bromomethane	14.4	1.00	ug/L	15.00		96	86-128				1
Carbon disulfide	16.6	1.00	ug/L	15.00		111	80-133				1
Carbon tetrachloride	15.0	0.500	ug/L	15.00		100	88-116				1
Chlorobenzene	14.7	0.500	ug/L	15.00		98	82-118				1
Chloroethane	14.3	0.500	ug/L	15.00		95	60-138				1
Chloroform	15.8	0.500	ug/L	15.00		105	79-124				1
Chloromethane	19.2	1.00	ug/L	15.00		128	50-139				1
cis-1,2-Dichloroethene	16.5	0.500	ug/L	15.00		110	78-123				1

Quality Control

(Continued)

Client: Geosyntec DoD

Report Date: 05/18/2021

Project: Milw Die Cast

Matrix: Water

Work Order: 21D1010

Volatile Organic Compounds by GC/MS

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1E0284 - SW5030 (Continued)**LCS (B1E0284-BS1) (Continued)**

Prepared: 05/07/2021 11:05 Analyzed: 05/07/2021 12:26

cis-1,3-Dichloropropene	15.8	0.500	ug/L	15.00		105	75-124				1
Cyclohexane	17.0	0.500	ug/L	15.00		114	71-130				1
Dibromochloromethane	14.2	0.500	ug/L	15.00		95	83-111				1
Dibromomethane	15.1	0.500	ug/L	15.00		101	79-117				1
Dichlorodifluoromethane	18.0	1.00	ug/L	15.00		120	66-150				1
Ethylbenzene	14.6	0.500	ug/L	15.00		97	79-121				1
Isopropylbenzene	15.2	0.500	ug/L	15.00		101	72-131				1
m,p-Xylene	28.6	1.00	ug/L	30.00		95	80-121				1
Methyl tert-butyl ether	16.2	0.500	ug/L	15.00		108	71-124				1
Methylene chloride	16.8	2.00	ug/L	15.00		112	74-124				1
n-Butylbenzene	14.8	1.00	ug/L	15.00		99	75-128				1
n-Propylbenzene	15.1	0.500	ug/L	15.00		100	76-126				1
o-Xylene	15.1	0.500	ug/L	15.00		101	78-122				1
sec-Butylbenzene	14.6	0.500	ug/L	15.00		98	77-126				1
Styrene	14.1	0.500	ug/L	15.00		94	78-123				1
tert-Butylbenzene	15.4	0.500	ug/L	15.00		103	78-124				1
Tetrachloroethene	14.0	0.500	ug/L	15.00		93	74-129				1
Toluene	14.7	0.500	ug/L	15.00		98	80-117				1
trans-1,2-Dichloroethene	16.5	0.500	ug/L	15.00		110	75-124				1
trans-1,3-Dichloropropene	15.1	0.500	ug/L	15.00		101	73-127				1
Trichloroethene	16.2	0.500	ug/L	15.00		108	84-113				1
Trichlorofluoromethane	15.5	0.500	ug/L	15.00		103	87-130				1
Vinyl chloride	18.1	1.00	ug/L	15.00		121	58-137				1
Xylenes, Total	43.7	1.50	ug/L	45.00		97	79-121				1
<hr/>											
Surrogate: Dibromofluoromethane	20.9		ug/L	20.00		105	89-119				1
Surrogate: 1,2-Dichloroethane-d4	20.8		ug/L	20.00		104	86-122				1
Surrogate: Fluorobenzene	20.1		ug/L	20.00		100	90-105				1
Surrogate: Toluene-d8	19.9		ug/L	20.00		100	89-108				1
Surrogate: 4-Bromofluorobenzene	9.74		ug/L	10.00		97	90-124				1
Surrogate: 1,2-Dichlorobenzene-d4	19.6		ug/L	20.00		98	90-118				1

LCS Dup (B1E0284-BSD1)

Prepared: 05/07/2021 11:05 Analyzed: 05/07/2021 12:52

1,1,1,2-Tetrachloroethane	13.0	0.500	ug/L	15.00		87	84-122	6	20		1
1,1,1-Trichloroethane	14.9	0.500	ug/L	15.00		99	74-131	8	20		1
1,1,1,2-Tetrachloroethane	14.8	0.500	ug/L	15.00		98	71-121	4	20		1
1,1,2-Trichloroethane	14.3	0.500	ug/L	15.00		96	83-118	8	20		1
1,1-Dichloroethane	15.5	0.500	ug/L	15.00		103	77-125	6	20		1
1,1-Dichloroethene	15.6	0.500	ug/L	15.00		104	71-131	9	20		1
1,1-Dichloropropene	15.2	0.500	ug/L	15.00		101	79-125	8	20		1
1,2,3-Trichlorobenzene	12.8	0.500	ug/L	15.00		85	69-129	7	20		1
1,2,3-Trichloropropane	15.1	0.500	ug/L	15.00		101	73-122	4	20		1
1,2,4-Trimethylbenzene	13.8	0.500	ug/L	15.00		92	76-124	9	20		1

Quality Control

(Continued)

Client: Geosyntec DoD**Report Date:** 05/18/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21D1010**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1E0284 - SW5030 (Continued)**LCS Dup (B1E0284-BSD1)** (Continued)

Prepared: 05/07/2021 11:05 Analyzed: 05/07/2021 12:52

1,2-Dibromo-3-chloropropane	13.2	1.00	ug/L	15.00		88	72-124	4	20		1
1,2-Dibromoethane	13.8	0.500	ug/L	15.00		92	77-121	3	20		1
1,2-Dichloroethane	15.3	0.500	ug/L	15.00		102	73-128	4	20		1
1,2-Dichloropropane	15.0	0.500	ug/L	15.00		100	78-122	7	20		1
1,3,5-Trimethylbenzene	13.4	0.500	ug/L	15.00		89	75-124	10	20		1
1,3-Dichloropropane	14.3	0.500	ug/L	15.00		96	82-108	6	20		1
2,2-Dichloropropane	15.6	0.500	ug/L	15.00		104	60-139	8	20		1
2-Butanone	52.0	1.75	ug/L	52.50		99	71-119	7	20		1
2-Chlorotoluene	13.7	0.500	ug/L	15.00		91	79-122	10	20		1
2-Hexanone	49.2	1.75	ug/L	52.50		94	57-139	6	20		1
4-Isopropyltoluene	13.3	0.500	ug/L	15.00		88	77-127	11	20		1
4-Methyl-2-pentanone	53.2	1.75	ug/L	52.50		101	67-130	3	20		1
Acetone	50.6	2.00	ug/L	52.50		96	39-160	14	20		1
Benzene	14.6	0.500	ug/L	15.00		97	87-107	9	20		1
Bromobenzene	14.1	0.500	ug/L	15.00		94	80-113	6	20		1
Bromochloromethane	14.4	0.500	ug/L	15.00		96	78-123	5	20		1
Bromodichloromethane	14.0	0.500	ug/L	15.00		93	84-115	7	20		1
Bromoform	12.5	0.500	ug/L	15.00		84	66-130	5	20		1
Bromomethane	14.3	1.00	ug/L	15.00		95	86-128	0.8	20		1
Carbon disulfide	15.3	1.00	ug/L	15.00		102	80-133	8	20		1
Carbon tetrachloride	14.0	0.500	ug/L	15.00		93	88-116	7	20		1
Chlorobenzene	13.7	0.500	ug/L	15.00		91	82-118	7	20		1
Chloroethane	13.4	0.500	ug/L	15.00		90	60-138	6	20		1
Chloroform	15.0	0.500	ug/L	15.00		100	79-124	5	20		1
Chloromethane	18.0	1.00	ug/L	15.00		120	50-139	6	20		1
cis-1,2-Dichloroethene	15.3	0.500	ug/L	15.00		102	78-123	7	20		1
cis-1,3-Dichloropropene	14.5	0.500	ug/L	15.00		97	75-124	8	20		1
Cyclohexane	16.0	0.500	ug/L	15.00		106	71-130	7	20		1
Dibromochloromethane	13.3	0.500	ug/L	15.00		89	83-111	7	20		1
Dibromomethane	13.9	0.500	ug/L	15.00		93	79-117	8	20		1
Dichlorodifluoromethane	16.7	1.00	ug/L	15.00		111	66-150	7	20		1
Ethylbenzene	13.5	0.500	ug/L	15.00		90	79-121	8	20		1
Isopropylbenzene	14.0	0.500	ug/L	15.00		93	72-131	8	20		1
m,p-Xylene	26.3	1.00	ug/L	30.00		88	80-121	8	20		1
Methyl tert-butyl ether	15.4	0.500	ug/L	15.00		103	71-124	5	20		1
Methylene chloride	15.8	2.00	ug/L	15.00		105	74-124	6	20		1
n-Butylbenzene	13.5	1.00	ug/L	15.00		90	75-128	9	20		1
n-Propylbenzene	13.7	0.500	ug/L	15.00		91	76-126	9	20		1
o-Xylene	13.5	0.500	ug/L	15.00		90	78-122	11	20		1
sec-Butylbenzene	13.4	0.500	ug/L	15.00		90	77-126	9	20		1
Styrene	13.0	0.500	ug/L	15.00		86	78-123	8	20		1
tert-Butylbenzene	14.3	0.500	ug/L	15.00		95	78-124	7	20		1

Quality Control

(Continued)

Client: Geosyntec DoD**Report Date:** 05/18/2021**Project:** Milw Die Cast**Matrix:** Water**Work Order:** 21D1010**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1E0284 - SW5030 (Continued)**LCS Dup (B1E0284-BSD1)** (Continued)

Prepared: 05/07/2021 11:05 Analyzed: 05/07/2021 12:52

Tetrachloroethene	12.8	0.500	ug/L	15.00		85	74-129	9	20		1
Toluene	13.5	0.500	ug/L	15.00		90	80-117	9	20		1
trans-1,2-Dichloroethene	15.3	0.500	ug/L	15.00		102	75-124	7	20		1
trans-1,3-Dichloropropene	14.1	0.500	ug/L	15.00		94	73-127	7	20		1
Trichloroethene	14.6	0.500	ug/L	15.00		97	84-113	10	20		1
Trichlorofluoromethane	14.4	0.500	ug/L	15.00		96	87-130	7	20		1
Vinyl chloride	16.3	1.00	ug/L	15.00		109	58-137	11	20		1
Xylenes, Total	39.8	1.50	ug/L	45.00		89	79-121	9	20		1
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Surrogate: Dibromofluoromethane	21.0		ug/L	20.00		105	89-119				1
Surrogate: 1,2-Dichloroethane-d4	21.3		ug/L	20.00		107	86-122				1
Surrogate: Fluorobenzene	20.2		ug/L	20.00		101	90-105				1
Surrogate: Toluene-d8	19.7		ug/L	20.00		99	89-108				1
Surrogate: 4-Bromofluorobenzene	9.99		ug/L	10.00		100	90-124				1
Surrogate: 1,2-Dichlorobenzene-d4	19.2		ug/L	20.00		96	90-118				1

Quality Control

(Continued)

Client: Geosyntec DoD
Project: Milw Die Cast

Report Date: 05/18/2021
Matrix: Water

Work Order: 21D1010**Subcontracted Analyses**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B1E0042 - SW5030**Blank (B1E0042-BLK1)**

Prepared: 05/03/2021 05:42 Analyzed: 05/03/2021 13:11

1,4-Dioxane	<0.200	0.500	ug/L							U	1
Surrogate: Toluene-d8	4.09		ug/L	4.000		102	80-120				1

LCS (B1E0042-BS1)

Prepared: 05/03/2021 05:42 Analyzed: 05/03/2021 11:47

1,4-Dioxane	3.91		ug/L	4.000		98	59-139				1
Surrogate: Toluene-d8	3.51		ug/L	4.000		88	80-120				1

MRL Check (B1E0042-MRL1)

Prepared: 05/03/2021 05:42 Analyzed: 05/03/2021 14:07

1,4-Dioxane	0.200		ug/L	0.2000		100	0-200				1
Surrogate: Toluene-d8	3.42		ug/L	4.000		86	80-120				1

MRL Check (B1E0042-MRL2)

Prepared: 05/03/2021 05:42 Analyzed: 05/03/2021 14:35

1,4-Dioxane	0.480		ug/L	0.5000		96	0-200				1
Surrogate: Toluene-d8	4.08		ug/L	4.000		102	80-120				1

Matrix Spike (B1E0042-MS1)**Source: 21D1010-04**

Prepared: 05/03/2021 05:42 Analyzed: 05/03/2021 15:59

1,4-Dioxane	3.80		ug/L	4.000	0.00	95	70-130				1
Surrogate: Toluene-d8	3.53		ug/L	4.000		88	80-120				1

Matrix Spike Dup (B1E0042-MSD1)**Source: 21D1010-04**

Prepared: 05/03/2021 05:42 Analyzed: 05/03/2021 16:27

1,4-Dioxane	3.79		ug/L	4.000	0.00	95	70-130	0.3	20		1
Surrogate: Toluene-d8	3.52		ug/L	4.000		88	80-120				1

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SW8260B in Water		
1,1,1,2-Tetrachloroethane	630-20-6	WDNR,DoD,ILEPA
1,1,1-Trichloroethane	71-55-6	AKDEC,WDNR,DoD,ILEPA
1,1,2,2-Tetrachloroethane	79-34-5	AKDEC,WDNR,DoD,ILEPA
1,1,2-Trichloroethane	79-00-5	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethane	75-34-3	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethene	75-35-4	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloropropene	563-58-6	WDNR,DoD,ILEPA
1,2,3-Trichlorobenzene	87-61-6	WDNR,DoD,ILEPA
1,2,3-Trichloropropane	96-18-4	AKDEC,WDNR,DoD,ILEPA
1,2,4-Trimethylbenzene	95-63-6	WDNR,DoD,ILEPA
1,2-Dibromo-3-chloropropane	96-12-8	AKDEC,WDNR,DoD,ILEPA
1,2-Dibromoethane	106-93-4	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloroethane	107-06-2	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloropropane	78-87-5	AKDEC,WDNR,DoD,ILEPA
1,3,5-Trimethylbenzene	108-67-8	WDNR,DoD,ILEPA
1,3-Dichloropropane	142-28-9	WDNR,DoD,ILEPA
2,2-Dichloropropane	594-20-7	WDNR,DoD,ILEPA
2-Butanone	78-93-3	WDNR,DoD,ILEPA
2-Chlorotoluene	95-49-8	WDNR,DoD,ILEPA
2-Hexanone	591-78-6	WDNR,DoD,ILEPA
4-Isopropyltoluene	99-87-6	WDNR,DoD,ILEPA
4-Methyl-2-pentanone	108-10-1	WDNR,DoD,ILEPA
Acetone	67-64-1	WDNR,DoD,ILEPA
Benzene	71-43-2	AKDEC,WDNR,DoD,ILEPA
Bromobenzene	108-86-1	WDNR,DoD,ILEPA
Bromochloromethane	74-97-5	WDNR,DoD,ILEPA
Bromodichloromethane	75-27-4	AKDEC,WDNR,DoD,ILEPA
Bromoform	75-25-2	AKDEC,WDNR,DoD,ILEPA
Bromomethane	74-83-9	AKDEC,WDNR,DoD,ILEPA
Carbon disulfide	75-15-0	WDNR,DoD,ILEPA
Carbon tetrachloride	56-23-5	AKDEC,WDNR,DoD,ILEPA
Chlorobenzene	108-90-7	AKDEC,WDNR,DoD,ILEPA
Chloroethane	75-00-3	WDNR,DoD,ILEPA
Chloroform	67-66-3	AKDEC,WDNR,DoD,ILEPA
Chloromethane	74-87-3	AKDEC,WDNR,DoD,ILEPA
cis-1,2-Dichloroethene	156-59-2	WDNR,DoD,ILEPA
cis-1,3-Dichloropropene	10061-01-5	AKDEC,WDNR,DoD,ILEPA
Cyclohexane	110-82-7	DoD
Dibromochloromethane	124-48-1	AKDEC,WDNR,DoD,ILEPA
Dibromomethane	74-95-3	WDNR,DoD,ILEPA
Dichlorodifluoromethane	75-71-8	WDNR,DoD,ILEPA

Certified Analyses included in this Report (Continued)

Analyte	CAS #	Certifications
SW8260B in Water (Continued)		
Ethylbenzene	100-41-4	AKDEC,WDNR,DoD,ILEPA
Isopropylbenzene	98-82-8	WDNR,DoD,ILEPA
m,p-Xylene	179601-23-1	AKDEC,WDNR,DoD,ILEPA
Methyl tert-butyl ether	1634-04-4	WDNR,DoD,ILEPA
Methylene chloride	75-09-2	AKDEC,WDNR,DoD,ILEPA
n-Butylbenzene	104-51-8	WDNR,DoD,ILEPA
n-Propylbenzene	103-65-1	WDNR,DoD,ILEPA
o-Xylene	95-47-6	AKDEC,WDNR,DoD,ILEPA
sec-Butylbenzene	135-98-8	WDNR,DoD,ILEPA
Styrene	100-42-5	WDNR,DoD
tert-Butylbenzene	98-06-6	WDNR,DoD,ILEPA
Tetrachloroethene	127-18-4	AKDEC,WDNR,DoD,ILEPA
Toluene	108-88-3	AKDEC,WDNR,DoD,ILEPA
trans-1,2-Dichloroethene	156-60-5	AKDEC,WDNR,DoD,ILEPA
trans-1,3-Dichloropropene	10061-02-6	AKDEC,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,WDNR,DoD,ILEPA
Trichlorofluoromethane	75-69-4	AKDEC,WDNR,DoD,ILEPA
Vinyl chloride	75-01-4	AKDEC,WDNR,DoD,ILEPA
Xylenes, Total	1330-20-7	AKDEC,WDNR,DoD,ILEPA
SW8260-SIM Modified in Water		
1,4-Dioxane	123-91-1	WDNR
SW9060 in Water		
Organic Carbon, Total	7440-44-0	DoD,ILEPA,WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	05/31/2022
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2021
DoD	Department of Defense, Accredited by PJLA	L18-183-R3	03/31/2022
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562020-3	07/27/2021
ISO	ISO/IEC 17025, Accredited by PJLA	L18-184-R1	03/31/2022
TX	Texas Commission of Environmental Quality	T104704554-20-5	10/31/2021
WA	Washington State Department of Ecology	C1057	01/05/2022
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2021

Qualifiers and Definitions

Item	Description
D	Data reported from a dilution
J	The reported result is an estimated value.
J2	The MS/MSD or duplicate recoveries are outside the quality control criteria due to difficult sample matrix.
S	The quality control sample recovery is outside of the laboratory control limits.
U	Analyte included in the analysis, but not detected
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.

Sample Receipt Checklist

Work Order: 21D1010

Printed: 4/30/2021 4:06:58PM

Client: Geosyntec DoD
Project: Milw Die Cast

Date Due: Friday, May 7, 2021

Cooler: 1

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 04/30/21 13:20
Date Logged In: 04/30/21 16:02

How were samples received? EMT
Cooler temperature at or below 6 degrees Celsius Yes
Chain of Custody present and properly completed Yes
Turn Around Time is indicated and specified No
Chain of Custody agrees with sample labels Yes
Samples received within hold time Yes
Proper sample containers received intact Yes
Sufficient Sample Volume Yes
Containers properly preserved Yes
Custody seals present No
Volatile water vials received Yes
Vials contain larger than pea sized air bubbles Yes

Sample Receipt Comments

Work Order: 21D1010

The samples were received on 04/30/21 13:20. The temperature of the cooler(s) at receipt was:

Cooler	Temp C°
1	5.2
2	4.0

The samples were received in good condition and were properly preserved.

Sample 04- MW-3 (8 vials), 05- MW-4 (1 vial), 06- MW-5 (1 vial), 12- MW-10 (1 vial), 14- MW-12 (6 vials) contain larger than pea-sized (6 mm) air bubbles.

Routine TAT has been entered X
PM Communicated TAT has been entered

Reviewed By: ABZ

Date: 04/30/2021

Page 1 of 2

Sample Receipt Checklist

Work Order: 21D1010

Printed: 4/30/2021 4:06:58PM

Client: Geosyntec DoD Project: Milw Die Cast	Date Due: Friday, May 7, 2021
---	-------------------------------

Cooler: 2

Received By: Agnieszka B. Zabawa
Logged In By: Agnieszka B. Zabawa

Date Received: 04/30/21 13:20
Date Logged In: 04/30/21 16:02

- How were samples received? EMT
- Cooler temperature at or below 6 degrees Celsius Yes
- Chain of Custody present and properly completed Yes
- Turn Around Time is indicated and specified No
- Chain of Custody agrees with sample labels Yes
- Samples received within hold time Yes
- Proper sample containers received intact Yes
- Sufficient Sample Volume Yes
- Containers properly preserved Yes
- Custody seals present No
- Volatile water vials received Yes
- Vials contain larger than pea sized air bubbles Yes

Reviewed By: ABZ Date: 04/30/2021

May 07, 2021

Tim Witzik
Environmental Monitoring & Technologies
8100 Austin Avenue
Morton Grove, IL 60053

RE: Project: 21D1010
Pace Project No.: 40226272

Dear Tim Witzik:

Enclosed are the analytical results for sample(s) received by the laboratory on May 04, 2021. 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,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 21D1010
Pace Project No.: 40226272

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

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SAMPLE SUMMARY

Project: 21D1010
Pace Project No.: 40226272

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40226272001	MW-1	Water	04/28/21 13:55	05/04/21 11:15
40226272002	MW-2	Water	04/28/21 12:15	05/04/21 11:15
40226272003	MW-2 DUP	Water	04/28/21 12:15	05/04/21 11:15
40226272004	MW-3	Water	04/27/21 12:30	05/04/21 11:15
40226272005	MW-4	Water	04/28/21 12:45	05/04/21 11:15
40226272006	MW-5	Water	04/27/21 14:25	05/04/21 11:15
40226272007	MW-6	Water	04/28/21 10:20	05/04/21 11:15
40226272008	MW-6 DUP	Water	04/28/21 10:20	05/04/21 11:15
40226272009	MW-7	Water	04/28/21 11:05	05/04/21 11:15
40226272010	MW-8	Water	04/27/21 13:10	05/04/21 11:15
40226272011	MW-9	Water	04/27/21 14:20	05/04/21 11:15
40226272012	MW-10	Water	04/27/21 15:40	05/04/21 11:15
40226272013	MW-11	Water	04/27/21 16:20	05/04/21 11:15
40226272014	MW-12	Water	04/27/21 10:00	05/04/21 11:15
40226272015	MW-13	Water	04/27/21 11:05	05/04/21 11:15
40226272016	MW-14	Water	04/28/21 09:25	05/04/21 11:15
40226272017	PZ-1	Water	04/28/21 14:10	05/04/21 11:15
40226272018	PZ-2	Water	04/28/21 08:30	05/04/21 11:15
40226272019	PZ-10	Water	04/26/21 15:50	05/04/21 11:15

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SAMPLE ANALYTE COUNT

Project: 21D1010
Pace Project No.: 40226272

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40226272001	MW-1	EPA 8015B Modified	ALD	3	PASI-G
40226272002	MW-2	EPA 8015B Modified	ALD	3	PASI-G
40226272003	MW-2 DUP	EPA 8015B Modified	ALD	3	PASI-G
40226272004	MW-3	EPA 8015B Modified	ALD	3	PASI-G
40226272005	MW-4	EPA 8015B Modified	ALD	3	PASI-G
40226272006	MW-5	EPA 8015B Modified	ALD	3	PASI-G
40226272007	MW-6	EPA 8015B Modified	ALD	3	PASI-G
40226272008	MW-6 DUP	EPA 8015B Modified	ALD	3	PASI-G
40226272009	MW-7	EPA 8015B Modified	ALD	3	PASI-G
40226272010	MW-8	EPA 8015B Modified	ALD	3	PASI-G
40226272011	MW-9	EPA 8015B Modified	ALD	3	PASI-G
40226272012	MW-10	EPA 8015B Modified	ALD	3	PASI-G
40226272013	MW-11	EPA 8015B Modified	ALD	3	PASI-G
40226272014	MW-12	EPA 8015B Modified	ALD	3	PASI-G
40226272015	MW-13	EPA 8015B Modified	ALD	3	PASI-G
40226272016	MW-14	EPA 8015B Modified	ALD	3	PASI-G
40226272017	PZ-1	EPA 8015B Modified	ALD	3	PASI-G
40226272018	PZ-2	EPA 8015B Modified	ALD	3	PASI-G
40226272019	PZ-10	EPA 8015B Modified	ALD	3	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 21D1010
Pace Project No.: 40226272

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40226272001	MW-1					
EPA 8015B Modified	Ethane	4.0J	ug/L	5.6	05/06/21 10:00	
EPA 8015B Modified	Ethane	40.9	ug/L	5.0	05/06/21 10:00	
EPA 8015B Modified	Methane	1030	ug/L	14.0	05/06/21 13:25	
40226272002	MW-2					
EPA 8015B Modified	Ethane	5.8	ug/L	5.6	05/06/21 10:07	
EPA 8015B Modified	Methane	892	ug/L	56.0	05/06/21 13:55	
40226272003	MW-2 DUP					
EPA 8015B Modified	Ethane	7.1	ug/L	5.6	05/06/21 10:14	
EPA 8015B Modified	Ethane	1.3J	ug/L	5.0	05/06/21 10:14	
EPA 8015B Modified	Methane	1420	ug/L	56.0	05/06/21 14:02	
40226272005	MW-4					
EPA 8015B Modified	Methane	134	ug/L	2.8	05/06/21 10:28	
40226272007	MW-6					
EPA 8015B Modified	Methane	27.6	ug/L	2.8	05/06/21 10:42	
40226272008	MW-6 DUP					
EPA 8015B Modified	Methane	32.0	ug/L	2.8	05/06/21 10:49	
40226272009	MW-7					
EPA 8015B Modified	Methane	218	ug/L	2.8	05/06/21 10:56	
40226272012	MW-10					
EPA 8015B Modified	Methane	2.7J	ug/L	2.8	05/06/21 12:29	
40226272016	MW-14					
EPA 8015B Modified	Methane	9.6	ug/L	2.8	05/06/21 12:57	
40226272017	PZ-1					
EPA 8015B Modified	Methane	2.9	ug/L	2.8	05/06/21 13:04	
40226272018	PZ-2					
EPA 8015B Modified	Ethane	1.6J	ug/L	5.6	05/06/21 13:11	
EPA 8015B Modified	Methane	40.1	ug/L	2.8	05/06/21 13:11	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-1 **Lab ID: 40226272001** Collected: 04/28/21 13:55 Received: 05/04/21 11:15 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	4.0J	ug/L	5.6	1.2	1		05/06/21 10:00	74-84-0	
Ethene	40.9	ug/L	5.0	1.2	1		05/06/21 10:00	74-85-1	
Methane	1030	ug/L	14.0	3.3	5		05/06/21 13:25	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-2 **Lab ID: 40226272002** Collected: 04/28/21 12:15 Received: 05/04/21 11:15 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	5.8	ug/L	5.6	1.2	1		05/06/21 10:07	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 10:07	74-85-1	
Methane	892	ug/L	56.0	13.3	20		05/06/21 13:55	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-2 DUP **Lab ID: 40226272003** Collected: 04/28/21 12:15 Received: 05/04/21 11:15 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	7.1	ug/L	5.6	1.2	1		05/06/21 10:14	74-84-0	
Ethene	1.3J	ug/L	5.0	1.2	1		05/06/21 10:14	74-85-1	
Methane	1420	ug/L	56.0	13.3	20		05/06/21 14:02	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-3 **Lab ID: 40226272004** Collected: 04/27/21 12:30 Received: 05/04/21 11:15 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		05/06/21 10:21	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 10:21	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		05/06/21 10:21	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-4 **Lab ID: 40226272005** Collected: 04/28/21 12:45 Received: 05/04/21 11:15 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		05/06/21 10:28	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 10:28	74-85-1	
Methane	134	ug/L	2.8	0.66	1		05/06/21 10:28	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-5 **Lab ID: 40226272006** Collected: 04/27/21 14:25 Received: 05/04/21 11:15 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		05/06/21 10:35	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 10:35	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		05/06/21 10:35	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-6 **Lab ID: 40226272007** Collected: 04/28/21 10:20 Received: 05/04/21 11:15 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		05/06/21 10:42	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 10:42	74-85-1	
Methane	27.6	ug/L	2.8	0.66	1		05/06/21 10:42	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-6 DUP **Lab ID: 40226272008** Collected: 04/28/21 10:20 Received: 05/04/21 11:15 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		05/06/21 10:49	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 10:49	74-85-1	
Methane	32.0	ug/L	2.8	0.66	1		05/06/21 10:49	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010
Pace Project No.: 40226272

Sample: MW-7 **Lab ID: 40226272009** Collected: 04/28/21 11:05 Received: 05/04/21 11:15 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		05/06/21 10:56	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 10:56	74-85-1	
Methane	218	ug/L	2.8	0.66	1		05/06/21 10:56	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-8 **Lab ID: 40226272010** Collected: 04/27/21 13:10 Received: 05/04/21 11:15 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		05/06/21 11:03	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 11:03	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		05/06/21 11:03	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-9 **Lab ID: 40226272011** Collected: 04/27/21 14:20 Received: 05/04/21 11:15 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		05/06/21 12:23	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 12:23	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		05/06/21 12:23	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-10 **Lab ID: 40226272012** Collected: 04/27/21 15:40 Received: 05/04/21 11:15 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		05/06/21 12:29	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 12:29	74-85-1	
Methane	2.7J	ug/L	2.8	0.66	1		05/06/21 12:29	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-11 **Lab ID: 40226272013** Collected: 04/27/21 16:20 Received: 05/04/21 11:15 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		05/06/21 12:36	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 12:36	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		05/06/21 12:36	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-12 **Lab ID: 40226272014** Collected: 04/27/21 10:00 Received: 05/04/21 11:15 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		05/06/21 12:43	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 12:43	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		05/06/21 12:43	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-13 **Lab ID: 40226272015** Collected: 04/27/21 11:05 Received: 05/04/21 11:15 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		05/06/21 12:50	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 12:50	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		05/06/21 12:50	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: MW-14 **Lab ID: 40226272016** Collected: 04/28/21 09:25 Received: 05/04/21 11:15 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		05/06/21 12:57	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 12:57	74-85-1	
Methane	9.6	ug/L	2.8	0.66	1		05/06/21 12:57	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: PZ-1 **Lab ID: 40226272017** Collected: 04/28/21 14:10 Received: 05/04/21 11:15 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		05/06/21 13:04	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 13:04	74-85-1	
Methane	2.9	ug/L	2.8	0.66	1		05/06/21 13:04	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: PZ-2 **Lab ID: 40226272018** Collected: 04/28/21 08:30 Received: 05/04/21 11:15 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	1.6J	ug/L	5.6	1.2	1		05/06/21 13:11	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 13:11	74-85-1	
Methane	40.1	ug/L	2.8	0.66	1		05/06/21 13:11	74-82-8	

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ANALYTICAL RESULTS

Project: 21D1010

Pace Project No.: 40226272

Sample: PZ-10 **Lab ID: 40226272019** Collected: 04/26/21 15:50 Received: 05/04/21 11:15 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		05/06/21 13:18	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		05/06/21 13:18	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		05/06/21 13:18	74-82-8	

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QUALITY CONTROL DATA

Project: 21D1010
Pace Project No.: 40226272

QC Batch:	384453	Analysis Method:	EPA 8015B Modified
QC Batch Method:	EPA 8015B Modified	Analysis Description:	Methane, Ethane, Ethene GCV
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40226272001, 40226272002, 40226272003, 40226272004, 40226272005, 40226272006, 40226272007, 40226272008, 40226272009, 40226272010, 40226272011, 40226272012, 40226272013, 40226272014, 40226272015, 40226272016, 40226272017, 40226272018, 40226272019		

METHOD BLANK:	2217641	Matrix:	Water
Associated Lab Samples:	40226272001, 40226272002, 40226272003, 40226272004, 40226272005, 40226272006, 40226272007, 40226272008, 40226272009, 40226272010, 40226272011, 40226272012, 40226272013, 40226272014, 40226272015, 40226272016, 40226272017, 40226272018, 40226272019		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<1.2	5.6	05/06/21 09:29	
Ethene	ug/L	<1.2	5.0	05/06/21 09:29	
Methane	ug/L	<0.66	2.8	05/06/21 09:29	

LABORATORY CONTROL SAMPLE & LCSD: 2217642		2217643								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	48.0	47.6	90	89	80-120	1	20	
Ethene	ug/L	50	45.8	45.3	92	91	80-120	1	20	
Methane	ug/L	28.6	27.7	27.7	97	97	80-121	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2218000		2218001											
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40226272011 Result	Spike Conc.	Spike Conc.	Conc.								
Ethane	ug/L	<1.2	53.6	53.6	46.7	46.8	87	87	80-122	0	20		
Ethene	ug/L	<1.2	50	50	44.5	44.8	89	90	80-122	1	20		
Methane	ug/L	<0.66	28.6	28.6	27.5	27.5	96	96	10-200	0	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

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QUALIFIERS

Project: 21D1010
Pace Project No.: 40226272

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 21D1010
Pace Project No.: 40226272

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40226272001	MW-1	EPA 8015B Modified	384453		
40226272002	MW-2	EPA 8015B Modified	384453		
40226272003	MW-2 DUP	EPA 8015B Modified	384453		
40226272004	MW-3	EPA 8015B Modified	384453		
40226272005	MW-4	EPA 8015B Modified	384453		
40226272006	MW-5	EPA 8015B Modified	384453		
40226272007	MW-6	EPA 8015B Modified	384453		
40226272008	MW-6 DUP	EPA 8015B Modified	384453		
40226272009	MW-7	EPA 8015B Modified	384453		
40226272010	MW-8	EPA 8015B Modified	384453		
40226272011	MW-9	EPA 8015B Modified	384453		
40226272012	MW-10	EPA 8015B Modified	384453		
40226272013	MW-11	EPA 8015B Modified	384453		
40226272014	MW-12	EPA 8015B Modified	384453		
40226272015	MW-13	EPA 8015B Modified	384453		
40226272016	MW-14	EPA 8015B Modified	384453		
40226272017	PZ-1	EPA 8015B Modified	384453		
40226272018	PZ-2	EPA 8015B Modified	384453		
40226272019	PZ-10	EPA 8015B Modified	384453		

REPORT OF LABORATORY ANALYSIS

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4021010

SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

21D1010

SENDING LABORATORY:

Environmental Monitoring and Technologies, Inc
 509 N. Third Avenue
 Des Plaines, IL 60016
 Phone: 847-967-6666
 Fax: 847.967.6735
 Project Manager: Tim Witzrek

RECEIVING LABORATORY:

Pace Analytical- Green Bay, Subcontract
 1241 Bellevue St, STE 9
 Green Bay, WI 54302-
 Phone : (920) 321-9411
 Fax: -

Analysis	Due <i>- Standard</i>	Expires	Laboratory ID	Comments
MW-1				
Sample ID: 21D1010-01	Water	Sampled: 04/28/21 13:55		
Dissolved gases in Water. CO2 unpres!!	05/07/21 12:00	05/12/21 13:55		PO 62154 for Methane, Ethane, and Ethene by 8015. Containers Supplied:
MW-2				
Sample ID: 21D1010-02	Water	Sampled: 04/28/21 12:15		
Dissolved gases in Water. CO2 unpres!!	05/07/21 12:00	05/12/21 12:15		PO 62154 for Methane, Ethane, and Ethene by 8015. Containers Supplied:
MW-2 DUP				
Sample ID: 21D1010-03	Water	Sampled: 04/28/21 12:15		
Dissolved gases in Water. CO2 unpres!!	05/07/21 12:00	05/12/21 12:15		PO 62154 for Methane, Ethane, and Ethene by 8015. Containers Supplied:
MW-3				MS/MSD Requested
Sample ID: 21D1010-04	Water	Sampled: 04/27/21 12:30		
Dissolved gases in Water. CO2 unpres!!	05/07/21 12:00	05/11/21 12:30		PO 62154 for Methane, Ethane, and Ethene by 8015. Containers Supplied:
MW-4				
Sample ID: 21D1010-05	Water	Sampled: 04/28/21 12:45		
Dissolved gases in Water. CO2 unpres!!	05/07/21 12:00	05/12/21 12:45		PO 62154 for Methane, Ethane, and Ethene by 8015. Containers Supplied:
MW-5				
Sample ID: 21D1010-06	Water	Sampled: 04/27/21 14:25		
Dissolved gases in Water. CO2 unpres!!	05/07/21 12:00	05/11/21 14:25		PO 62154 for Methane, Ethane, and Ethene by 8015. Containers Supplied:

PO # 62154 for 19 samples for Methane, Ethane, and Ethene by 8015.

<i>North</i>	5/3/21		
Released By	Date	Received By	Date
UPS	5/4/21 1115	Kendra Space	5/4/21 1115
Released By	Date	Received By	Date

- All samples have 3 HCl preserved vials

4026212

SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

21D1010

Analysis	Due	<i>Standard</i> Expires	Comments
MW-6 Sample ID: 21D1010-07 Water Sampled:04/28/21 10:20	05/07/21 12:00	05/12/21 10:20	PO 62154 for Methane, Ethane, and Ethene by 8015. Containers Supplied:
MW-6 DUP Sample ID: 21D1010-08 Water Sampled:04/28/21 10:20	05/07/21 12:00	05/12/21 10:20	PO 62154 for Methane, Ethane, and Ethene by 8015. Containers Supplied:
MW-7 Sample ID: 21D1010-09 Water Sampled:04/28/21 11:05	05/07/21 12:00	05/12/21 11:05	PO 62154 for Methane, Ethane, and Ethene by 8015. Containers Supplied:
MW-8 Sample ID: 21D1010-10 Water Sampled:04/27/21 13:10	05/07/21 12:00	05/11/21 13:10	PO 62154 for Methane, Ethane, and Ethene by 8015. Containers Supplied:
MW-9 Sample ID: 21D1010-11 Water Sampled:04/27/21 14:20	05/07/21 12:00	05/11/21 14:20	PO 62154 for Methane, Ethane, and Ethene by 8015. Containers Supplied:
MW-10 Sample ID: 21D1010-12 Water Sampled:04/27/21 15:40	05/07/21 12:00	05/11/21 15:40	PO 62154 for Methane, Ethane, and Ethene by 8015. Containers Supplied:
MW-11 Sample ID: 21D1010-13 Water Sampled:04/27/21 16:20	05/07/21 12:00	05/11/21 16:20	PO 62154 for Methane, Ethane, and Ethene by 8015. Containers Supplied:
MW-12 Sample ID: 21D1010-14 Water Sampled:04/27/21 10:00	05/07/21 12:00	05/11/21 10:00	PO 62154 for Methane, Ethane, and Ethene by 8015. Containers Supplied:

<i>[Signature]</i>	5/3/21		
Released By	Date	Received By	Date
<i>WPS</i>	5/4/21	<i>Kendra Grace</i>	5/4/21
Released By	Date	Received By	Date
	1115		1115

40 *revision*


SUBCONTRACT ORDER

Environmental Monitoring and Technologies, Inc

21D1010


Analysis	Due	<i>- Standard</i>	Expires	Comments
MW-13				
Sample ID: 21D1010-15	Water	Sampled:04/27/21 11:05		
Dissolved gases in Water. CO2 unpres!!	05/07/21 12:00		05/11/21 11:05	PO 62154 for Methane, Ethane, and Ethene by 8015.
<i>Containers Supplied:</i>				
MW-14				
Sample ID: 21D1010-16	Water	Sampled:04/28/21 09:25		
Dissolved gases in Water. CO2 unpres!!	05/07/21 12:00		05/12/21 09:25	PO 62154 for Methane, Ethane, and Ethene by 8015.
<i>Containers Supplied:</i>				
PZ-1				
Sample ID: 21D1010-17	Water	Sampled:04/28/21 14:10		
Dissolved gases in Water. CO2 unpres!!	05/07/21 12:00		05/12/21 14:10	PO 62154 for Methane, Ethane, and Ethene by 8015.
<i>Containers Supplied:</i>				
PZ-2				
Sample ID: 21D1010-18	Water	Sampled:04/28/21 08:30		
Dissolved gases in Water. CO2 unpres!!	05/07/21 12:00		05/12/21 08:30	PO 62154 for Methane, Ethane, and Ethene by 8015.
<i>Containers Supplied:</i>				
PZ-10				
Sample ID: 21D1010-19	Water	Sampled:04/26/21 15:50		
Dissolved gases in Water. CO2 unpres!!	05/07/21 12:00		05/10/21 15:50	PO 62154 for Methane, Ethane, and Ethene by 8015.
<i>Containers Supplied:</i>				

<i>[Signature]</i>	5/3/21		
Released By	Date	Received By	Date
WPS	5/4/21 1115	Kendra Space	5/4/21 1115
Released By	Date	Received By	Date

 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# : 40226272**



40226272

Client Name: Environmental Monitoring

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

Tracking #: 1Z 813 F0201 9837 4350

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 - 9 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1 /Corr: 2

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:	
Date: <u>5/4/21</u>	Initials: <u>[Signature]</u>
Labeled By Initials: <u>[Signature]</u>	

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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4. <u>Sub work</u> <u>KS 5/4/21</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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

Memorandum

Date: June 14, 2021
To: Jeremiah Johnson
From: Jennifer Pinion
CC: J. Caprio
Subject: **Stage 2A Data Validation – Level II Data Deliverable –
Environmental Monitoring and Technologies Work Order 21D1010**

SITE: Milwaukee Die Casting Company Site, Milwaukee, WI

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of seventeen water samples, two field duplicate samples and one trip blank, collected between April 26 and 28, 2021, during a Milwaukee Die Casting Company Site sampling event. The analyses were performed by Environmental Monitoring and Technologies (EMT), Inc, Des Plaines, Illinois. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by United States (US) Environmental Protection Agency (EPA) Methods 5030/8260B
- 1,4-Dioxane by US EPA Methods 5030/8260B using Selective Ion Monitoring (SIM)
- Total Organic Carbon (TOC) by US EPA Method 9060

The following analysis was subcontracted to Pace Analytical Services, Green Bay, Wisconsin:

- Dissolved Gases by US EPA Method 8015B Modified

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced by the laboratory report, professional and technical judgment and the following documents:

- Updated Site Investigation Work Plan, Milwaukee Die Casting Company Site, 4132 North Holton Street. Milwaukee, Wisconsin, November 12, 2019

- US EPA National Functional Guidelines for Organic Superfund Methods Data Review, November 2020 (USEPA- 540-R-20-005)

The following samples were analyzed in the data set and validated at a Stage 2A level:

Laboratory ID	Client ID
21D1010-01	MW-1
21D1010-02	MW-2
21D1010-03	MW-2 DUP
21D1010-04	MW-3
21D1010-05	MW-4
21D1010-06	MW-5
21D1010-07	MW-6
21D1010-08	MW-6 DUP
21D1010-09	MW-7
21D1010-10	MW-8

Laboratory ID	Client ID
21D1010-11	MW-9
21D1010-12	MW-10
21D1010-13	MW-11
21D1010-14	MW-12
21D1010-15	MW-13
21D1010-16	MW-14
21D1010-17	PZ-1
21D1010-18	PZ-2
21D1010-19	PZ-10
21D1010-20	TB-04282021

The samples were received at the laboratory at 4.0 and 5.2°C within the temperature criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

A collection time was not listed on the chain of custody (COC) for the trip blank; the laboratory logged the trip blank with collection date and time of 4/26/2021, 00:00.

The date of the second relinquishing on the COC, page 1 of 2, was documented as 4-31-21; the date of receiving for the second receiving was documented as 4-30-2021.

The laboratory report indicated that the 1,4-dioxane analysis by US EPA 5030/8260B using SIM was subcontracted. However, additional information from the laboratory indicated that the data was analyzed at EMT, Inc, Des Plaines, Illinois.

Incorrect error corrections executed by EMT were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE

The samples were analyzed for VOCs per US EPA Methods 5030/8260B and 1,4-dioxane by US EPA Methods 5030/8260B using SIM.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas

where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Trip Blank
- ⊗ Surrogates
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverable Review

1.1 **Overall Assessment**

The VOC and 1,4-dioxane data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

The laboratory noted that headspace was present in some of the vials for samples MW-3 (8 vials), MW-4 (1 vial), MW-5 (1 vial), MW-10 (1 vial), MW-12 (6 vials). However, additional information from the laboratory indicated that these samples were analyzed from vials with no headspace. Therefore, based on professional and technical judgement, no qualifications were applied to the data.

1.2 **Holding Times**

The holding times for the VOC and 1,4-dioxane analyses of preserved water samples are both 14 days from collection to analysis. The holding times were met for the sample analyses.

1.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches B1E0244, B1E0284 and B1E0042). VOCs and 1,4-dioxane were not detected in the method blanks above the method detection limits (MDLs), with the following exceptions.

1,2,3-Trichlorobenzene, 4-isopropyltoluene, ethylbenzene, methylene chloride and sec-butylbenzene in batch B1E0244 and styrene in the method blanks in batches B1E0244 and B1E0284 were detected at estimated concentrations greater than the MDLs and less than the reporting limits (RLs). Therefore, the estimated ethylbenzene, methylene chloride, sec-butylbenzene and styrene concentrations in the associated samples were U qualified as not detected at the RLs. 1,2,3-Trichlorobenzene and 4-isopropyltoluene were not detected in the associated samples.

Sample ID	Compound	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier*	Reason Code**
MW-1	Methylene chloride	3.75	J, D	10.0	U	3
MW-2	Styrene	0.250	J, D	2.50	U	3
MW-2	Methylene chloride	5.00	J, D	10.0	U	3
MW-2 DUP	Ethylbenzene	0.150	J, D	2.50	U	3
MW-2 DUP	Methylene chloride	4.70	J, D	10.0	U	3
MW-3	Methylene chloride	4.25	J, D	10.0	U	3
MW-4	Ethylbenzene	0.150	J, D	2.50	U	3
MW-4	Methylene chloride	4.25	J, D	10.0	U	3
MW-5	Ethylbenzene	0.150	J, D	2.50	U	3
MW-5	Methylene chloride	4.05	J, D	10.0	U	3
MW-6	Methylene chloride	3.95	J, D	10.0	U	3
MW-6 DUP	Ethylbenzene	0.150	J, D	2.50	U	3
MW-6 DUP	Methylene chloride	4.15	J, D	10.0	U	3
MW-7	Methylene chloride	3.05	J, D	10.0	U	3
MW-8	Methylene chloride	4.45	J, D	10.0	U	3
MW-9	Methylene chloride	4.90	J, D	10.0	U	3
MW-10	Methylene chloride	4.00	J, D	10.0	U	3
MW-11	Methylene chloride	4.00	J, D	10.0	U	3
MW-12	Methylene chloride	4.05	J, D	10.0	U	3
MW-13	Methylene chloride	3.75	J, D	10.0	U	3
MW-14	Methylene chloride	3.65	J, D	10.0	U	3
PZ-1	Styrene	0.250	J, D	2.50	U	3
PZ-1	Methylene chloride	3.50	J, D	10.0	U	3
PZ-2	Methylene chloride	3.70	J, D	10.0	U	3
PZ-10	Methylene chloride	4.05	J, D	10.0	U	3
TB-04282021	Styrene	0.0500	J	0.500	U	3
TB-04282021	Methylene chloride	0.350	J	2.00	U	3
TB-04282021	sec-Butylbenzene	0.0700	J	0.500	U	3

µg/l-microgram per liter

J-laboratory flag indicated the reported result is estimated

D-laboratory flag indicating the reported result is from a dilution

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 **Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

Two sample set specific MS/MSD pairs were reported, both using sample MW-3. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exception.

The MSD recovery of chloromethane in the MS/MSD pair using sample MW-3 was high and outside the laboratory specified acceptance criteria. Since chloromethane was not detected in sample MW-3, no qualifications were applied to the data.

1.5 **Laboratory Control Sample (LCS)**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

Method reporting limit (MRL) standards were also reported for 1,4-dioxane. Assessment of the MRL results indicated they were within the laboratory acceptance criteria.

1.6 **Trip Blank**

One trip blank was submitted with the sample set, TB-04282021. VOCs were not detected in the trip blank above the MDLs, with the following exceptions.

Acetone, methylene chloride, sec-butylbenzene and styrene were detected in the trip blank at estimated concentrations greater than the MDLs and less than the RLs. Therefore, the estimated concentrations of methylene chloride in the associated samples were U qualified as not detected at the RL. The estimated styrene results in the associated samples were qualified due to method blank contamination; therefore, no additional qualifications were applied to the styrene data. Acetone and sec-butylbenzene were not detected in the associated samples.

Sample ID	Compound	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier	Reason Code
MW-1	Methylene chloride	3.75	J, D	10.0	U	3
MW-7	Methylene chloride	3.05	J, D	10.0	U	3
PZ-1	Methylene chloride	3.50	J, D	10.0	U	3

PZ-10	Methylene chloride	4.05	J, D	10.0	U	3
-------	--------------------	------	------	------	---	---

µg/l-microgram per liter

J-laboratory flag indicated the reported result is estimated

D-laboratory flag indicating the reported result is from a dilution

1.7 Surrogates

The surrogate recoveries were within the laboratory specified acceptance criteria, with the following exceptions.

Surrogate recoveries were not reported for the 1:500 sample dilution of sample MW-1. Additional information from the laboratory indicated that the surrogate recoveries for this dilution were within the laboratory specified acceptance criteria, but were not included in the laboratory report.

The surrogate recovery of toluene-d8 for the 1,4-dioxane analysis of samples MW-4 was low and outside the laboratory specified acceptance criteria. Therefore, the non-detect 1,4-dioxane result in sample MW-4 was UJ qualified as estimated less than the limit of detection (LOD).

Sample ID	Compound	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier	Reason Code
MW-4	1,4-Dioxane	0.200	U	0.200	UJ	6

µg/l-microgram per liter

U-not detected at or above the LOD

1.8 Field Duplicate

Two field duplicate samples, MW-2 DUP and MW-6 DUP were collected with the sample set. Acceptable precision (RPD ≤30%) was demonstrated between the field duplicates and the original samples, MW-2 and MW-6, respectively, with the following exceptions.

Ethylbenzene was detected at estimated concentrations greater than the MDL and less than the RL in the field duplicates, MW-2 DUP and MW-6 DUP and not detected above the LODs in samples MW-2 and MW-6. Styrene and m,p-xylene were detected at estimated concentrations greater than the MDLs and less than the RLs in sample, MW-2 and not detected greater than the LODs in the field duplicate, MW-2 DUP. Total xylene was detected at an estimated concentration greater than the MDL and less than the RL in samples MW-2 and MW-6, but not detected greater than the LOD in the field duplicates. o-Xylene was detected at an estimated concentration greater than the MDL and less than the RL in sample MW-6 and not detected greater than the LOD in the field duplicate. Each of these cases resulted in non-calculable RPDs. However, since the estimated concentrations of ethylbenzene, m,p-xylene, total xylene and o-xylene were less than the LODs and based on professional and technical judgement, no qualifications were applied to the data.

1.9 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were reported due to the dilutions analyzed.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The internal standard recoveries for the 1,4-dioxane analyses were included in the EDD but were not included in the level II report. No other discrepancies were identified between the level II report and the EDD.

2.0 DISSOLVED GASES

The samples were analyzed for dissolved gases (methane, ethane and ethene) per US EPA Method 8015B Modified.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine the impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The dissolved gas data reported in this laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

The laboratory noted that headspace was present in some of the vials for samples PZ-1, MW-13, MW-10, MW-4 and PZ-10. However, additional information from the laboratory indicated that the samples were analyzed from vials with no headspace. Therefore, based on professional and technical judgement, no qualifications were applied to the data

2.2 Holding Times and Preservation

The holding time for the dissolved gas analyses of a preserved water sample is 14 days from collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 384453). Dissolved gases were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample MW-9. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.6 Field Duplicate

Two field duplicate samples, MW-2 DUP and MW-6 DUP were collected with the sample set. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicates and the original samples, MW-2 and MW-6, respectively, with the following exceptions.

Ethene was detected at an estimated concentration greater than the MDL and less than the limit of quantitation (LOQ) in the field duplicate MW-2 DUP and not detected greater than the LOD in sample MW-2, resulting in a non-calculable RPD. Since the estimated concentration of ethene was less than the LOD and based on professional and technical judgement, no qualifications were applied to the data.

The RPD between the methane results in the field duplicate pair MW-2/MW-2 DUP was greater than 30%. Therefore, based on professional and technical judgement, the concentrations of methane in the field duplicate pair MW-2/MW-2 DUP were J qualified as estimated.

Sample ID	Compound	Laboratory Result (µg/L)	Laboratory Flag	RPD	Validation Result (µg/L)	Validation Qualifier	Reason Code
MW-2	Methane	892	NA	46	892	J	7
MW-2 DUP	Methane	1420	NA		1420	J	7

µg/L-micrograms per liter

NA-not applicable

RPD-relative percent difference

2.7 Sensitivity

The samples were assessed to the MDLs; however, the non-detects were reported as not detected at the LODs. Elevated non-detect results were not reported.

2.8 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 TOTAL ORGANIC CARBON

The samples were analyzed for TOC by US EPA method 9060.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The TOC data reported in this laboratory report are considered usable for supporting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for the sample set is 100%.

3.2 Holding Times

The holding time for the TOC analysis of a preserved water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Eight method blanks were reported in batch B1E0035 and four method blanks were reported in batch B1E0078. TOC was not detected in the method blanks above the MDL.

3.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported, using sample MW-3. The recovery and RPD results were within the laboratory specified acceptance criteria.

Three batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

Two MRL standards were also reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Field Duplicate

Two field duplicate samples, MW-2 DUP and MW-6 DUP, were collected with the sample set. Acceptable precision (RPD<30%) was demonstrated between the field duplicates and the original samples, MW-2 and MW-6, respectively.

3.7 Sensitivity

The samples were assessed to the MDL; however, the non-detects were reported as not detected at the LOD. Elevated non-detect results were not reported.

3.8 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference